Yahoo Group Archive:
GPSL (2002 — 2008)

Yahoo Group summary: Great Plains Super Launch

These Yahoo Groups messages were archived in WARC format by ArchiveTeam in 2017. This PDF was generated by Digital Library of Amateur Radio & Communications from the WARC files in 2026.

Date span: 2002-05-03 through 2008-12-27

Source WARC: gpsl.HpWvsYD.warc.gz

Source item: https://archive.org/details/yahoo-groups-2017-04-11T12-44-24Z-5e3769

Messages included in this PDF: 4850

Message records with no body available in the source archive: 9

Messages omitted as spam from this PDF: 6

Yahoo replaced the domain portions of email addresses with @... in the archived messages. Characters lost in Yahoo's archived text appear as ?.

Messages are presented in ascending Yahoo message-ID order. Gaps indicate records absent from the source WARC or messages omitted from this PDF as spam.

1. Hi everybody

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-03 04:04:43 UTC
From: Mark Conner
Topic: 1 Message: 1

Just wanted to say hi to every and start the list discussion.

First thing we should get a handle on is what sort of payloads are available that people want to fly. I'll start off.....

NSTAR can fly a combination of the following:

1) Primary APRS: 2m only, VFO, time slot capable
2) Backup APRS: 2m or 70cm, VFO, time slot capable
3) Simplex repeater: 2m or 70cm, VFO
4) Cross-band repeater (W0RPK's): 70cm up/2m down or vice versa, VFO, APRS MIM on downlink, data not slotted
5) Camcorder: VHS-C, 2 hour of video, manually started before launch
6) Still camera (maybe, awaiting time to modify and test)

My preference is to fly 1, 2, and 5. I think 1, 4, and 5 is too much weight, but I'll figure that out soon. If someone else flies a camcorder, I could do 1 and 4. 6 will fly with 1 if it's ready regardless.

If the others can chime in here, we'll get on our way.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

2. FW: TVNSP payloads

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-03 23:28:02 UTC
From: Mark Conner
Topic: 2 Message: 2

```
----- Original Message -----
From: <VERHAP@...>
To: "Mark Conner" <mconner1@...>
Sent: Friday, May 03, 2002 18:30
Subject: GPSL

> Mark, I can see GPSL messages.
>
> Here's my input.
>
> I plan to fly a capsule with KPC 3+, time slotted every 15
seconds.
> I'll send the following sentences, GGA,RMC, PGRMV, and flight
> computer messages. Currently I transmit at 0, 15, 30, and 45
> seconds. I will change this if necessary.
>
> I'd like to carry a repeater (440?), APS camera, possibly a
> camcorder, and light and temperature sensors. I plan to use
the
> camcorder to record the effects of near space on items, not so
> much for recording other capsules.
>
> I need to find out who needs helium.
> I also ned to find out what AV equipment people need.
>
> Starting 5 June, I'll be on vacation in Yosemite and the Grand
> Canyon. I'll be back for one week before heading out to
Kansas.
> Along the way I'll visit the Stratobowl and SD air and Space
> Museum. I'll bring a cell phone, so if there's a group
call-in, I
> should be able to make it (unless I have to call from the
bottom of
> the Grand Canyon).
>
> Please pass on this message.
> Thanks,
> Paul
```

3. GPSL Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-07 14:54:04 UTC
From: paul.verhage@boiseschools.org
Topic: 3 Message: 3

I need to know if presenters will have written notes for me to publish. So far no presenter has given me notice. I'd like to make a copy of every presenter's notes available to attendees. I'll take care of the photocopying and binding.

Please let me know if you'll have notes for me to publish.

Paul

4. Frequency Plan

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-12 04:48:18 UTC
From: kd7lmo
Topic: 4 Message: 4

Because of the number of balloon launching from GPSL and possible interference with local repeaters, I've started to put together a frequency plan. The list is posted in the files section. I will be happy to maintain it and add other groups to the list. So far I've added our group, ANSR - Arizona Near Space Research.

We will fly a cross band repeater that can be used by the tracking teams.

5. Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 17:47:34 UTC
From: paul.verhage@boiseschools.org
Topic: 5 Message: 5

Packet, ATV, and Repeaters, Oh My!

It looks like we're going to have more transmissions coming out of Manhattan on 6 July than NSA HQ. To prevent near space capsules from stepping on each other, we'll start a table of frequencies, powers, times, and modes.

I'll need a coordinator to keep track of this. Mark, can you do that? All communications about this topic are to be sent to the list. Once the table is put together, it will go out to subscribers for their review. Please don't make comments about selected frequencies until after the final table it put together and emailed. After that, please look them over and look for potential problems.

To all program managers,
Please email current transmission information to gpsl@egroups.com in this format.

Subject line for email: Frequency Plan

Please organize the text of your message as follows.

Program or capsule name
Mode Power Frequency Time

For example,

TVNSP
Packet 340mW 144.390 0, 15, 30, and 45 seconds

If you're flying a dual-band repeater, please post both frequencies and indicate which is the uplink and downlink frequency.

In Manhattan, there's not a lot of APRS traffic. Unfortunately, not long after we launch, we'll run into traffic from KC. In KC there's lots of APRS traffic. So GPSL will move off the standard APRS frequency (144.390). Mark suggested a frequency, but I managed to lose it. I'll get back with you on the proper APRS frequency.

Chase Frequencies
At the launch site and for what I think will be most of the chase, we'll use the Manhattan repeater. If we get close to Topeka or Lawrence, we'll switch to one of their repeaters. A near space repeater will be avaiable during the chase. We may go to simplex during portions of the recovery. I'll post the Topeka and Lawrence frequencies shortly. For simplex, I'd like select a 2m and 440 frequency that are easy to remember, perhaps the call-in frequencies. Those too will be posted shortly.

Thanks,
Paul

6. Re: [GPSL] Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 17:41:48 UTC
From: mgray@ess-us.com
Topic: 5 Message: 6

Paul,

Not sure if you saw my message from last week, but I already started
the frequency list. It is posted in the Files sections. If you want
Mark to track the frequencies, let me know and I'll assign the file
to him.

73s de Michael Gray, kd7lmo

From sentto-6764416-4-1021309159-mgray=ess-us.com@... Mon May 13 10:03:06 2002
X-eGroups-Return: sentto-6764416-4-1021309159-mgray=ess-us.com@...
X-Sender: VERHAP@...
X-Apparently-To: gpsl@egroups.com
To: GPSL@yahoogroups.com
Priority: normal
In-reply-to: <002d01c1fa77$413db5a0$5c06400c@j2l8z3>
X-mailer: Pegasus Mail for Windows (v3.01d)
X-eGroups-From: <VERHAP@...>
From: <paul.verhage@...>
X-Yahoo-Profile: pverhage1960
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Mon, 13 May 2002 10:47:34 -700
Subject: [GPSL] Frequency Coordination
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Packet, ATV, and Repeaters, Oh My!

It looks like we're going to have more transmissions coming out of
Manhattan on 6 July than NSA HQ. To prevent near space
capsules from stepping on each other, we'll start a table of
frequencies, powers, times, and modes.

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For example,

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Thanks,
Paul

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

7. Re: [GPSL] Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 18:04:53 UTC
From: Mark Conner
Topic: 5 Message: 7

I can keep track of the various modes, frequencies, etc. I've gotten some input from Mike KD0FW off-list for his payload(s). I looked at KD7LMO's inputs in the files area.

I had previously suggested everyone having a slotted beacon on 144.34 MHz for mutual chase support if possible.

Also, when people submit their inputs, please indicate if you're frequency-agile and to what extent (crystalled, VFO 70cm only, VFO 2/70, etc). That will help us decide how much people can compromise on their "favorite" frequencies should we need to make adjustments.

I'm not sure if the egroups.com address will work - if not, the correct address is gpsl@yahoogroups.com.

73 de Mark N9XTN

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, May 13, 2002 12:47
Subject: [GPSL] Frequency Coordination

> Packet, ATV, and Repeaters, Oh My!
>
> It looks like we're going to have more transmissions coming out of
> Manhattan on 6 July than NSA HQ. To prevent near space
> capsules from stepping on each other, we'll start a table of
> frequencies, powers, times, and modes.
>
> I'll need a coordinator to keep track of this. Mark, can you do that?
> All communications about this topic are to be sent to the list.
> Once the table is put together, it will go out to subscribers for their
> review. Please don't make comments about selected frequencies
> until after the final table it put together and emailed. After that,
> please look them over and look for potential problems.
>
> To all program managers,
> Please email current transmission information to
> gpsl@egroups.com in this format.

>
> Subject line for email: Frequency Plan
>
> Please organize the text of your message as follows.
>
> Program or capsule name
> Mode Power Frequency Time
>
> For example,
>
> TVNSP
> Packet 340mW 144.390 0, 15, 30, and 45 seconds
>
> If you're flying a dual-band repeater, please post both
frequencies
> and indicate which is the uplink and downlink frequency.
>
> In Manhattan, there's not a lot of APRS traffic.
Unfortunately, not
> long after we launch, we'll run into traffic from KC. In KC
there's
> lots of APRS traffic. So GPSL will move off the standard APRS
> frequency (144.390). Mark suggested a frequency, but I managed
> to lose it. I'll get back with you on the proper APRS
frequency.
>
> Chase Frequencies
> At the launch site and for what I think will be most of the
chase,
> we'll use the Manhattan repeater. If we get close to Topeka or
> Lawrence, we'll switch to one of their repeaters. A near space
> repeater will be avaiable during the chase. We may go to
simplex
> during portions of the recovery. I'll post the Topeka and
Lawrence
> frequencies shortly. For simplex, I'd like select a 2m and 440
> frequency that are easy to remember, perhaps the call-in
> frequencies. Those too will be posted shortly.
>
> Thanks,
> Paul
>
>
>
>
>
>
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-------~->
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to
http://docs.yahoo.com/info/terms/
>
>

8. Re: [GPSL] Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 19:01:57 UTC
From: paul.verhage@boiseschools.org
Topic: 5 Message: 8

I saw your file. I didn't realize I was assigning a task already started. If yopu don't mind, I'd like to forward that to Mark. We'll add one more item to the list. We need to find out who can change frequencies if there is a problem.

Paul

> Paul,
>
> Not sure if you saw my message from last week, but I already started
> the frequency list. It is posted in the Files sections. If you want
> Mark to track the frequencies, let me know and I'll assign the file
> to him.

9. Re: [GPSL] Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 19:23:08 UTC
From: mgray@ess-us.com
Topic: 5 Message: 9

I've made the requested changes to the file and changed the name to reflect
only the ANSR payloads. The file is in the Files section of the Yahoo
group page.

From sentto-6764416-7-1021313634-mgray=ess-us.com@... Mon May 13 11:17:13 2002
X-eGroups-Return: sentto-6764416-7-1021313634-mgray=ess-us.com@...
X-Sender: VERHAP@...
X-Apparently-To: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
Priority: normal
In-reply-to: <200205131741.KAA23653@...-us.com>
X-mailer: Pegasus Mail for Windows (v3.01d)
X-eGroups-From: <VERHAP@...>
From: <paul.verhage@...>
X-Yahoo-Profile: pverhage1960
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Mon, 13 May 2002 12:01:57 -700
Subject: Re: [GPSL] Frequency Coordination
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I saw your file. I didn't realize I was assigning a task already
started. If yopu don't mind, I'd like to forward that to Mark. We'll
add one more item to the list. We need to find out who can
change frequencies if there is a problem.

Paul
> Paul,
>
> Not sure if you saw my message from last week, but I already started
> the frequency list. It is posted in the Files sections. If you want
> Mark to track the frequencies, let me know and I'll assign the file
> to him.

To unsubscribe from this group, send an email to:
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10. Frequency Coordination Format

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 19:08:02 UTC
From: paul.verhage@boiseschools.org
Topic: 5 Message: 10

One o more item needs to be added to the frequency coordination form. Please add if you can change frequencies and how easy. This won't be a problem for APRS, as we'll use the same frequency. But repeaters and ATVer's can't use the same frequency. We won't ask someone to change frequencies if their transmitter is crystal controlled and can't be changed in time.

So the format looks like this....

Name Mode Power Frequency Changeable?

Options for Changeable are

Yes (as in having an HT with a tuning knob)
Some (as in using a crystal that you can reasonably switch out)
Not on your life (there's no realistic way to change your frequency in the time allotted)

Paul

11. Re: [GPSL] Frequency Coordination Format

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 20:21:39 UTC
From: mgray@ess-us.com
Topic: 5 Message: 11

ANSR - Arizona Near Space Research

Frequency Summary
Name Mode Power Frequency Changeable?
KD7LMO-11 APRS 500mW 445.950 MHz Synthesized 420-450
KD7LMO-11 Repeater In --- 145.560 MHz Synthesized 144-148
KD7LMO-11 Repeater Out 5W 445.525 MHz Synthesized 430-450MHz

Payload Packages
KD7LMO-11, APRS Beacon
$GPGGA, $GPRMC, and plain text status '>' sent via GATE,WIDE3-3
Alternating every 30 seconds, no carrier detect/DCD
445.950 MHz, synthesized 420-450MHz

KD7LMO-11, Cross band repeater, remote commanding (cut down),
flight data recorder, telemetry, redundant APRS
In: 145.560 MHz w/162.2 Hz PL tone, synthesized 144-148MHz
Out: 445.525 MHz (5 watts), synthesized 430-450MHz

Rev. 13 May 2002

12. Frequency Coordination Format

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-13 21:58:52 UTC
From: paul.verhage@boiseschools.org
Topic: 5 Message: 12

```
Frequencies
Name Mode Power Frequency Changeable?
TVNSP Packet 340 mW 144.34 yes

Paul
```

13. Frequency coordination format.

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-14 01:03:15 UTC
From: Michael L. Bogard
Topic: 13 Message: 13

KCATVG - Kansas City Amateur Television Group

Frequency Summary
Name Mode Power Frequency Changeable? * Notes
KD0FW ATV 5 Watts 439.250 MHz Crystal
KD0FW Simplex Rptr .100 MW 144.340 MHZ Synthesized ATV DX Simplex Calling Frequency.

14. Re: [GPSL] Frequency coordination format.

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-14 14:15:40 UTC
From: paul.verhage@boiseschools.org
Topic: 13 Message: 14

Are you sending up a tracker or are you getting a lift from
someone? As far as the tracker, are you slotting your packets?
And also at what times?

Thanks,
Paul

> KCATVG - Kansas City Amateur Television Group
>
> Frequency Summary
> Name Mode Power Frequency Changeable? * Notes
> KD0FW ATV 5 Watts 439.250 MHz Crystal
> KD0FW Simplex Rptr .100 MW 144.340 MHZ Synthesized ATV DX Simplex Calling Frequency.
>
>
>

15. Re: [GPSL] Frequency coordination format.

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-15 01:15:32 UTC
From: Michael L. Bogard
Topic: 13 Message: 15

I will tracking mine the hard way using direction finding equipment like we used in the early 1990's for now. I had a offer from ka0jlf to do APRS but that will depend on the total weight of the payload.

16. Re: [GPSL] GPSL Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-15 12:30:18 UTC
From: Ralph Wallio, W0RPK
Topic: 3 Message: 16

Paul,

A less than timely response. My intent is to use our records listing as the backbone of my discussion paper. I will add my comments to each category and encourage attendees to contribute their thoughts during the discussion. The paper will then be amended with contributions from others and published in my web pages for the amusement and amazement of both of my readers . . .

I will cooperate with your schedule to make the initial paper available for a printed proceedings. Given electronic copies of other papers, I could also (as I say in our GPSL web page) create a more comprehensive web proceedings to be available to all comers (both of them) . . .

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
No system should be more complicated than it need be

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, May 07, 2002 9:54 AM
Subject: [GPSL] GPSL Proceedings

> I need to know if presenters will have written notes for me to
> publish. So far no presenter has given me notice. I'd like to make
> a copy of every presenter's notes available to attendees. I'll take
> care of the photocopying and binding.
>
> Please let me know if you'll have notes for me to publish.
>
> Paul

17. 500 mile flight?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-16 16:39:17 UTC
From: K. Mark Caviezel
Topic: 17 Message: 17

All:
It's been an idea of mine to launch a zero-pressure balloon from here in Denver, and float it low (30-40k feet probably) from here to Manhattan KS, about 500 miles east of here. I keep bringing it up at the EOSS meetings, but the idea just hasn't caught on. Some rudimentary navigation could be possible with ballast dump. If anyone on this list wants to assist in looking at historical winds and coming up with a flight plan (something like- float at A feet until you get to X,Y, then dump ballast and ascend to B feet to take the balloon into the Manhattan KS vicinity), I would take this info into account to design and build the balloon and flight systems. If the 'cruise float' is around 30k feet, I should be able to maintain direct line of site control over the balloon to 300+ miles out if I drive up to 14+k feet on Mount Evans (or Pike's Peak) immediately after launch, then do a hand-over to a team on the ground in Manhattan.

Any interest ?

- KMC

_____
Do You Yahoo!?
LAUNCH - Your Yahoo! Music Experience
http://launch.yahoo.com

18. Re: [GPSL] 500 mile flight?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-16 17:38:40 UTC
From: paul.verhage@boiseschools.org
Topic: 17 Message: 18

I like the idea.
I assume recovery crews here would send a series of DTMF tones
to terminate the flight?

One concern is the altitude of the flight. 30-40k feet will keep the
balloon in the jetways. Will a high altitude work? I imagine ti
would take two days to get to Manhattan.

Paul

> All:
> It's been an idea of mine to launch a zero-pressure
> balloon from here in Denver, and float it low (30-40k
> feet probably) from here to Manhattan KS, about 500
> miles east of here. I keep bringing it up at the
> EOSS meetings, but the idea just hasn't caught on.
> Some rudimentary navigation could be possible with
> ballast dump. If anyone on this list wants to assist
> in looking at historical winds and coming up with a
> flight plan (something like- float at A feet until you
> get to X,Y, then dump ballast and ascend to B feet to
> take the balloon into the Manhattan KS vicinity), I
> would take this info into account to design and build
> the balloon and flight systems. If the 'cruise
> float' is around 30k feet, I should be able to
> maintain direct line of site control over the balloon
> to 300+ miles out if I drive up to 14+k feet on Mount
> Evans (or Pike's Peak) immediately after launch, then
> do a hand-over to a team on the ground in Manhattan.

19. Re: [GPSL] 500 mile flight?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-16 16:52:49 UTC
From: Don Pfister
Topic: 17 Message: 19

The main thing that hits me about your idea is, the altitude you are talking is right in the jetways. I don't think you would get clearance for a flight plan like that. I think you would be better served flying above 60K ft.

73 Don

"K. Mark Caviezel" wrote:

> All:
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> balloon from here in Denver, and float it low (30-40k
> feet probably) from here to Manhattan KS, about 500
> miles east of here. I keep bringing it up at the
> EOSS meetings, but the idea just hasn't caught on.
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> float' is around 30k feet, I should be able to
> maintain direct line of site control over the balloon
> to 300+ miles out if I drive up to 14+k feet on Mount
> Evans (or Pike's Peak) immediately after launch, then
> do a hand-over to a team on the ground in Manhattan.
>
> Any interest ?
>
> - KMC

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org

20. Re: [GPSL] 500 mile flight?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-16 18:49:28 UTC
From: Ralph Wallio, W0RPK
Topic: 17 Message: 20

The discussion of Mean Zonal Winds (MZW) at http://users.crosspaths.net/~wallio/MZW.html helps us start planning toward a long distance mission (but lets plan toward more than 703.02 miles to give us a chance at breaking the SSOK/WB0DRL record - see http://users.crosspaths.net/wallio/RECORDS.html). MZW data includes mean wind speed (m/s) at various altitudes but there is no directional component other than westerly vs. easterly.

Referring to the data table for 40dN latitude and looking at winds between 60k and 80kft, we can see that December-January would be best for a west to east flight. MZW velocity varies 10-18m/s (20-35kts) depending on altitude. Based on these mean values and an average of 27.5kts (31.6mph), it would take 704/31.6 = a little over 22-hours aloft to break the record.

Taking this MZW estimate up to 24-hours and 760 miles, the mission could be launched late in the afternoon from the Denver area and recovered before nightfall the following day. Touchdown would be somewhere on an arc running through western Wisconsin, western and central Illinois and eastern Missouri from Duluth, MN to Little Rock, AR. This is as close as we can predict this far out but there would be significantly more precision during the final days of preparations.

Winds aloft at lower altitudes are highly variable in both speed and direction (hot air balloon distance record breaking attempts often wait months, even years, for the right conditions, 10k-18kft) but they are somewhat dependable within a season at higher altitudes. I say "somewhat dependable" because our collective flight experience shows significant variations in characteristics for flights in the same month (see MZW discussion). EOSS-46 experienced easterlies above 60kft in January which are totally unpredicted by MZW data while EOSS-53 in December matches the MZW prediction almost perfectly.

Launching in the late afternoon would minimize helium loss from the zero-pressure envelope due to solar heating during the early hours of the mission. After sunrise solar heating would provide more lift helping keep the balloon and payload above 60kft and controlled airspace until flight termination. Precision track predictions in the last few days before flight would allow the recovery crew to position themselves appropriately, southeastern Missouri to west central Wisconsin.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Component cost is not the same thing as system cost

----- Original Message -----
From: K. Mark Caviezel <kmcaviezel@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, May 16, 2002 11:39 AM
Subject: [GPSL] 500 mile flight?

> All:
> It's been an idea of mine to launch a zero-pressure
> balloon from here in Denver, and float it low (30-40k
> feet probably) from here to Manhattan KS, about 500
> miles east of here. I keep bringing it up at the
> EOSS meetings, but the idea just hasn't caught on.
> Some rudimentary navigation could be possible with
> ballast dump. If anyone on this list wants to assist
> in looking at historical winds and coming up with a
> flight plan (something like- float at A feet until you
> get to X,Y, then dump ballast and ascend to B feet to
> take the balloon into the Manhattan KS vicinity), I
> would take this info into account to design and build
> the balloon and flight systems. If the 'cruise
> float' is around 30k feet, I should be able to
> maintain direct line of site control over the balloon
> to 300+ miles out if I drive up to 14+k feet on Mount
> Evans (or Pike's Peak) immediately after launch, then
> do a hand-over to a team on the ground in Manhattan.
>
> Any interest ?
>
> - KMC

21. Re: [GPSL] 500 mile flight?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-16 21:43:13 UTC
From: Don Pfister
Topic: 17 Message: 21

Well in a month, I'll be crewing for the RAAM and will travel from Portland, OR to Pensacola, FL basically non-stop. It took Fabio a little over 9 days to ride the race a couple of years ago, hope to be faster this time. ;-)

http://www.ultracycling.com/events/raam.html
http://www.raceacrossamerica.org/

I could monitor it during the race. ;-)

73 Don

"Ralph Wallio, W0RPK" wrote:

> The discussion of Mean Zonal Winds (MZW) at
> http://users.crosspaths.net/~wallio/MZW.html helps us start planning toward
> a long distance mission (but lets plan toward more than 703.02 miles to give
> us a chance at breaking the SSOK/WB0DRL record - see
> http://users.crosspaths.net/wallio/RECORDS.html). MZW data includes mean
> wind speed (m/s) at various altitudes but there is no directional component
> other than westerly vs. easterly.

22. Topo Map

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-17 15:10:30 UTC
From: paul.verhage@boiseschools.org
Topic: 22 Message: 22

Ralph, I'm planning to work on the GPSL logo again this weekend. However, when I search my PC in the classroom, I can't find the topo map you emailed. I may have it at home. But if I don't, then it probably won't be until next week before I have access to email to ask for the file. Can you email me the file again? I'll start a search over the internet for a copy, just in case.

I plan for the logo be just like my first suggestion, but witht he topo map of Kansas instead.

Paul

23. 500 mile flight (II)

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-17 19:27:56 UTC
From: K. Mark Caviezel
Topic: 23 Message: 23

Yes, I am appraised that the 30-40k feet altitude I mention is 'right in the middle of the jetways', but I recently read "Around the World in 20 days" by Bertrand Piccard and Brian Smith, the team that circumnavigated the Earth in 1999 in a big Rozier balloon. Most all of thier flight was 15-35k feet altitude. Yes, air traffic control was an issue (particularly border crossings), but it was an issue that they surmounted within the rules of all the countries they flew over.
The winter winds in general from altitudes 10k feet to 80k feet are good for a flight from here in Denver to locations east of here, but GPSL is in the summer, and my knowledge of summer winds over Denver put a cap of about 50k feet for a balloon wanting to go from here to there.

The basic issues are:
a). balloon vehicle capable of float, multiple altitudes desireable (I can do this)
b). telemetry, control, termination. All this has been done on EOSS flights and "ES-OS" flights.
c). flight prediction/flight management. Similar to what most balloon groups do for all flights anyways, with a twist of long time aloft and significant lateral travel over the ground.
d). "political issues" - FAA, responsible flight with other users of aerial navigation. Piccard and Smith did it, manned, in 1999 with a champagne budget, I'd like to do it, unmanned, in 2002 with a "beer and pizza" budget.

I am seeking help for those interested in helping on c). and d). to see if we (the amatuer ballooning community) can pull this off in a safe and successful manner.

73s all - KMC KC0JHQ

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24. Re: [GPSL] 500 mile flight (II)

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-18 15:08:23 UTC
From: Ralph Wallio, W0RPK
Topic: 23 Message: 24

All of these "around-the-world" attempts were flying in the busy 15-35kft altitude range but they were using altitude encoded radar transponders and in constant communication with air traffic control. ATC could always identify them on radar and vectored more maneuverable aircraft away from them. In my opinion, these manned flights are not reasonable operational models for much less significant unmanned missions.

It is possible to fly a transponder, even with encoding, in an unmanned high altitude payload but they are expensive, ~$2,000, and they use a lot of power. It is my general impression that without a transponder and constant communications with ATC, the FAA would consider an unmanned balloon cruising at 15-35kft to be derelict and a threat to air navigation.

Summer winds aloft above 60kft would not be useful for a west-to-east flight. If we want to fly during the summer above controlled air space (above 60kft) we would have to go east-to-west at a much slower speed of 4-8m/s (7-15kts, 9-18mph). A record breaking 710 mile flight would therefore take 710/13.5 = ~52 hours which is far two long for an amateur zero pressure mission. (This MZW-derived estimate compares nicely with NASA/NSBF missions in August 2000 from south central Iowa to southeastern Nebraska, roughly 200 miles in 16 hours, averaging 12.5mph.)

Timing this mission for GPSL-2003 would be a problem because attendees are already completely scheduled with a busy symposium and multiple flight schedule. There would be very little, if any, time available for attendees to participate in a complicated long-duration long-haul mission.

All of this takes me back to a west-to-east 60-80kft mission during the winter. Ascent and descent would be in controlled airspace but only for an hour each. The roughly 24 hour cruise would be above controlled air space so a transponder and constant ATC contact would not be required. It is easy to imagine a payload of two <6-pound packages, including ballast dumping, so the flight would be exempt.

A winter flight would allow the eastern recovery troops to dedicate a weekend to the mission while driving long distances to be in the right place at the right time for descent and touchdown. Home stations at intermediate distances, spaced ~200 miles apart, could capture telemetry and report their observations. They could also be equipped for an "emergency" cutdown command if system failure allowed descent into controlled air space.

It is reasonable to believe that a recovery team can be put together at this end (Iowa, Illinois, et al.), that intermediate stations can be recruited for any possible flight track, and that winds aloft data and track prediction processes are dependable. I believe this can be done and safely.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Optimal solutions do not always exist

25. re 500 mile flight

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-20 20:18:05 UTC
From: K. Mark Caviezel
Topic: 25 Message: 25

Points well made, Ralph.
I'll just leave the proposal on the table, see if we form a critical mass to move this project forward. My goal is not to break the distance record, but rather to navigate a balloon to within a reasonable radius of a desired target far away. Denver-Manhattan seems do-able technically, but clearly ATC "buy-in" needs to happen.

- KMC

_____
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26. Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-22 15:13:40 UTC
From: paul.verhage@boiseschools.org
Topic: 26 Message: 26

I've designed a logo for GPSL but arranged to leave the diskette at home. I'll post it tomorrow. I'd like the motto for this year's GPSL to be, "100,000 feet. Been There, Done That".

Paul

27. Re: [GPSL] Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 12:41:59 UTC
From: Ralph Wallio, W0RPK
Topic: 26 Message: 27

Paul is doing the vast majority of the work to put GPSL-2002 together so I will bow deeply to him and accept this motto.

However, we should understand how unusual it is to reach 100,000ft. In the process of collecting data for discussions about Mean Zonal Winds (http://users.crosspaths.net/~wallio/MZW.html) and Ascent Rate Variations (http://users.crosspaths.net/wallio/ASCENT.html) you folks sent me a lot of flight data for missions past. For Mean Zonal Winds I accepted mission data from before and after SA was turned off on 02May00 and we have a total of 54 missions in the study. Only 4 of those missions went above 100,000ft which is 7.4%.

For analysis of Ascent Rate Variations I only used data from missions after SA was turned off. There were a total of 28 missions in the study of which only 2 went above 100,000ft. Again, that is 7.1%. This indicates we are not flying higher as time goes by.

It appears we should not be overselling our collective ability to make it to 100,000ft because it happens less than 1 flight out of 10.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Results may not be reproducible

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, May 22, 2002 10:13 AM
Subject: [GPSL] Logo

> I've designed a logo for GPSL but arranged to leave the diskette at
> home. I'll post it tomorrow. I'd like the motto for this year's GPSL
> to be, "100,000 feet. Been There, Done That".
>
> Paul

28. Re: [GPSL] Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 13:10:09 UTC
From: Mark Conner
Topic: 26 Message: 28

I think most of us have the *ability* to get to 100,000 ft, but some of us have not tried very hard on most flights.

The baseline for a 100kft effort, when you're lifting more than 2-3 lbs., is a 1200g balloon. To me, anyone flying less than a 1200g balloon with more than a flyweight payload is not expecting 100kft. For NSTAR, I've flown only 4 1200g balloons in 10 flights (none larger). Three of these four were deliberately overfilled to decrease the flight distance, which means that I'm 0 for 1 (01-B) in actual attempts at 100kft.

It would be interesting to see the numbers for 1200g-and-larger balloons flown. I believe everyone at GPSL is planning to use 1200g.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
To: <GPSL@yahoogroups.com>
Cc: "Paul Verhage, KD4STH" <paul.verhage@...>
Sent: Thursday, May 23, 2002 07:41
Subject: Re: [GPSL] Logo

> It appears we should not be overselling our collective ability to make it to
> 100,000ft because it happens less than 1 flight out of 10.
>

29. GPSL Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 14:47:21 UTC
From: paul.verhage@boiseschools.org
Topic: 29 Message: 29
Attachments: 2 described; binary payloads are missing from this source WARC

Here's the logo (that I left at home yesterday). Feel free to use it, there is no copyright or anything like that (unless you plan to make a million bucks with it).

It's a Corel Draw file. Apparently I forgot to copy the BMP vsrsion of it. If someone can convert CDR files to BMPs or GIFs, please do.

Paul

30. Re: [GPSL] GPSL Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 13:57:25 UTC
From: Ralph Wallio, W0RPK
Topic: 29 Message: 30

I have software that can make the conversion (XnView) but the CDR file is displaying with many gray line artifacts within the state outline that don't appear to look right(?)

-w0rpk

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, May 23, 2002 9:47 AM
Subject: [GPSL] GPSL Logo

> Here's the logo (that I left at home yesterday). Feel free to use it,
> there is no copyright or anything like that (unless you plan to make
> a million bucks with it).
>
> It's a Corel Draw file. Apparently I forgot to copy the BMP vsrsion
> of it. If someone can convert CDR files to BMPs or GIFs, please
> do.
>
> Paul

31. Re: [GPSL] GPSL Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 14:59:00 UTC
From: paul.verhage@boiseschools.org
Topic: 29 Message: 31

The file should be in color.

We've got Corel at the campus, I'll try running the conversion after
my first class.

Paul

> I have software that can make the conversion (XnView) but the CDR file is
> displaying with many gray line artifacts within the state outline that don't
> appear to look right(?)
>
> -w0rpk
>
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, May 23, 2002 9:47 AM
> Subject: [GPSL] GPSL Logo
>
>
> > Here's the logo (that I left at home yesterday). Feel free to use it,
> > there is no copyright or anything like that (unless you plan to make
> > a million bucks with it).
> >
> > It's a Corel Draw file. Apparently I forgot to copy the BMP vsrsion
> > of it. If someone can convert CDR files to BMPs or GIFs, please
> > do.
> >
> > Paul
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

32. Re: Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 19:05:34 UTC
From: ka0jlf
Topic: 5 Message: 32

--- In GPSL@y..., "Mark Conner" <n9xtn@c...> wrote:
> I can keep track of the various modes, frequencies, etc.

Do I understand this exchange to mean we are not going to keep the info on the groups page?

I have been waiting to see what was being used before I decided. However, it does not look like all of us can view it as a collection.

I think sharing the info would be good, isn't that why this group was created? What if we keep it in the files area or create a Database?

I have not created or used a Database in Yahoo Groups, this may not be a good idea. However, I would be will to give it a try. Input from the rest of you?

Thanks,
Don

I will go back to being silent.

33. Re: [GPSL] Re: Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 20:30:57 UTC
From: Mark Conner
Topic: 5 Message: 33

The intent is to make all this public. I haven't had the time to compile what I've gotten into a easy-to-read form. Even a simple HTML page is probably sufficient.

I haven't found the Yahoo database stuff to be all that useful.

Everything I've received has been through the GPSL or KNSP group e-mail so if you review the archive in the last month or so you'll know what I know.

- Mark

----- Original Message -----
From: "ka0jlf" <ka0jlf@...>
Date: Thursday, May 23, 2002 2:05 pm
Subject: [GPSL] Re: Frequency Coordination

> --- In GPSL@y..., "Mark Conner" <n9xtn@c...> wrote:
> > I can keep track of the various modes, frequencies, etc.
>
> Do I understand this exchange to mean we are not going to keep the
> info on the groups page?
>
> I have been waiting to see what was being used before I decided.
> However, it does not look like all of us can view it as a
> collection.
>
> I think sharing the info would be good, isn't that why this group
> was
> created? What if we keep it in the files area or create a Database?
>
> I have not created or used a Database in Yahoo Groups, this may not
> be a good idea. However, I would be will to give it a try. Input from
> the rest of you?
>
> Thanks,
> Don
>
> I will go back to being silent.
>
>
> ------------------------ Yahoo! Groups Sponsor --------------------
> ~-->
> FREE COLLEGE MONEY
> CLICK HERE to search
> 600,000 scholarships!

> http://us.click.yahoo.com/DlIU9C/4m7CAA/Ey.GAA/ELTolB/TM
> ---
> --~->
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to
> http://docs.yahoo.com/info/terms/
>
>
>

34. Re: [GPSL] Re: Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 20:38:32 UTC
From: Don Pfister
Topic: 5 Message: 34

Thanks Mark, I didn't intend to make more work for anyone. I'll see what I can do.

Don

Mark Conner wrote:

> The intent is to make all this public. I haven't had the time to

35. Re: [GPSL] Re: Frequency Coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-23 22:12:01 UTC
From: mgray@ess-us.com
Topic: 5 Message: 35

I created a file in the Files Section of the Yahoo group that contains
a list of frequencies, etc for the ANSR flight. If someone wants to
copy this file, they can add the frequencies for all the missions into
a single file.

From sentto-6764416-33-1022186316-mgray=ess-us.com@... Thu May 23 13:39:07 2002
X-eGroups-Return: sentto-6764416-33-1022186316-mgray=ess-us.com@...
X-Sender: ka0jlf@...
X-Apparently-To: GPSL@yahoogroups.com
X-Mailer: Mozilla 4.61 [en]C-CCK-MCD (Win98; U)
X-Accept-Language: en
To: GPSL@yahoogroups.com
References: <27984e20.4e202798@...>
From: Don Pfister <ka0jlf@...>
X-Yahoo-Profile: ka0jlf
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Thu, 23 May 2002 15:38:32 -0500
Subject: Re: [GPSL] Re: Frequency Coordination
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Thanks Mark, I didn't intend to make more work for anyone. I'll see what I can
do.

Don

Mark Conner wrote:

> The intent is to make all this public. I haven't had the time to

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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36. 100k feet?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-24 06:42:20 UTC
From: K. Mark Caviezel
Topic: 36 Message: 36

7.4% of flights going to over 100k feet is a heck of a
lot more frequent than most anything else that flies.
Paul points out that many missions don't realistically
expect to break 100k, but if the flight operators
'simply' put some extra money into a larger balloon,
then it would happen with more frequency.
I like Paul's slogan for the GPSL.
- KMC

_____
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37. Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-28 16:56:32 UTC
From: paul.verhage@boiseschools.org
Topic: 37 Message: 37

I need to know how many people need helium for GPSL. If someone will be local to Manhattan on the 3rd and can help move helium, please let me know (I have a small Prizm and can't carry 150 pound tanks in it).

Tanks,
Paul

38. Re: [GPSL] Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-29 15:49:05 UTC
From: Don Pfister
Topic: 37 Message: 38

Paul, I'll take one tank of helium. I could drive out to Manhattan and help (manpower) but my car too is small. What about delivery? Does the gas place charge for delivery or is it going to be delivered to the school?

Don

paul.verhage@... wrote:

> I need to know how many people need helium for GPSL. If
> someone will be local to Manhattan on the 3rd and can help move
> helium, please let me know (I have a small Prizm and can't carry
> 150 pound tanks in it).
>
> Tanks,
> Paul

39. Re: [GPSL] Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-29 16:50:58 UTC
From: paul.verhage@boiseschools.org
Topic: 37 Message: 39

> Paul, I'll take one tank of helium. I could drive out to Manhattan and help
> (manpower) but my car too is small. What about delivery? Does the gas place
> charge for delivery or is it going to be delivered to the school?

Linweld won't deliver. I have to carry the tanks out myself.

Paul

40. Re: [GPSL] Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-29 15:56:33 UTC
From: Don Pfister
Topic: 37 Message: 40

I have carried one tank in my car, I should be able to get at least two in there. It might take me a few trips but if no one closer, I'll do it. They will be okay at Johnson Near Space Center right?

paul.verhage@... wrote:

> > Paul, I'll take one tank of helium. I could drive out to Manhattan and help
> > (manpower) but my car too is small. What about delivery? Does the gas place
> > charge for delivery or is it going to be delivered to the school?
>
> Linweld won't deliver. I have to carry the tanks out myself.
>
> Paul

41. Re: [GPSL] Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-05-29 18:32:13 UTC
From: paul.verhage@boiseschools.org
Topic: 37 Message: 41

> I have carried one tank in my car, I should be able to get at least two in there.
> It might take me a few trips but if no one closer, I'll do it. They will be okay
> at Johnson Near Space Center right?

The center locks, so the tanks will be safe.

Paul

42. July 4th weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 02:24:51 UTC
From: Keith Sproul
Topic: 42 Message: 42

Can someone tell me where and when the events are for the July 5th-6th weekend? I am making my travel plans etc..

Keith Sproul

--
Keith Sproul Ham Radio: WU2Z
Student Housing Network Coordinator 732 445-3695 Work
Rutgers University Computing Services 732 445-2968 Fax
mailto://ksproul@...

43. Re: [GPSL] Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 04:47:15 UTC
From: Michael L. Bogard
Topic: 37 Message: 43

If I could get a tank that would be great also. I will be driving my truck to the gpsl and might be able to help haul the tanks. I may not be able to get off work on Friday early so I might not get there till about 6:00 or 7:00pm. Keep in touch and thanks de kd0fw

44. Re: [GPSL] July 4th weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 16:05:07 UTC
From: Mark Conner
Topic: 42 Message: 44

Hi Keith,

The symposium is scheduled for Friday, July 5th starting at 9am
and lasting most of the day. The launch will be Saturday the 6th
with a rain date of Sunday the 7th.

I believe both Manhattan and Topeka have limited air service, but
it's probably expensive. It's probably more cost-effective to
travel to Kansas City (MCI) and drive a rental car the 120 miles
(2 hrs) from the airport to Manhattan.

Your return date depends on how sure you want to be of seeing the
launches. If you go back Sunday afternoon, you could chase with
us on Saturday if we get off the ground, or if it ends up being
on Sunday you'd at least see the launch.

73 de Mark N9XTN

----- Original Message -----
From: "Keith Sproul" <ksproul@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, May 31, 2002 21:24
Subject: [GPSL] July 4th weekend

>
> Can someone tell me where and when the events are for the July
5th-6th
> weekend? I am making my travel plans etc..
>
> Keith Sproul
>

45. GPSL web site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 16:12:17 UTC
From: Mark Conner
Topic: 45 Message: 45

Forgot to mention that the main GPSL 2002 web site is at:

http://users.crosspaths.net/~wallio/GPSL2002.html

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how
efficient of you!" - Ambassador Londo Mollari, Babylon 5

46. Re: [GPSL] July 4th weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 16:21:00 UTC
From: Keith Sproul
Topic: 42 Message: 46

Thanks for the info..

The web site told me what I needed.. It is at K-State.. My father went there.. My grandparents live in Clay Center.. I am going to fly to KC, get a car, and go visit my grandparents for the 4th, then go to Manhattan for the conf and launch.. Since it is close enough, I will stay with my grandparents and save on the hotel bill. I know the area much better than you would expect for someone from New Jersey....

Also, what is JNSC and where exactly is the launch from???

Keith

On Sat, 1 Jun 2002, Mark Conner wrote:

> Hi Keith,
>
> The symposium is scheduled for Friday, July 5th starting at 9am
> and lasting most of the day. The launch will be Saturday the 6th
> with a rain date of Sunday the 7th.
>
> I believe both Manhattan and Topeka have limited air service, but
> it's probably expensive. It's probably more cost-effective to
> travel to Kansas City (MCI) and drive a rental car the 120 miles
> (2 hrs) from the airport to Manhattan.
>
> Your return date depends on how sure you want to be of seeing the
> launches. If you go back Sunday afternoon, you could chase with
> us on Saturday if we get off the ground, or if it ends up being
> on Sunday you'd at least see the launch.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Keith Sproul" <ksproul@...>
> To: <GPSL@yahoogroups.com>
> Sent: Friday, May 31, 2002 21:24
> Subject: [GPSL] July 4th weekend
>
>
> >
> > Can someone tell me where and when the events are for the July
> 5th-6th
> > weekend? I am making my travel plans etc..
> >
> > Keith Sproul

> >
>
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>

--
Keith Sproul Ham Radio: WU2Z
Student Housing Network Coordinator 732 445-3695 Work
Rutgers University Computing Services 732 445-2968 Fax
mailto://ksproul@...

47. Re: [GPSL] July 4th weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 16:27:42 UTC
From: Mark Conner
Topic: 42 Message: 47

The launch will be at the Johnson Near Space Center, which is
about 10 miles south of Manhattan. The main feature of the JNSC
is a large storage building where we can fill 4-6 balloons inside
out of the wind.

Take a look at the pictures linked from this site - there are
several taken at the launch site.
http://members.cox.net/mconner1/knsp.html

- Mark

----- Original Message -----
From: "Keith Sproul" <ksproul@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, June 01, 2002 11:21
Subject: Re: [GPSL] July 4th weekend

>
> Thanks for the info..
>
> The web site told me what I needed.. It is at K-State.. My
father went
> there.. My grandparents live in Clay Center.. I am going to
fly to KC,
> get a car, and go visit my grandparents for the 4th, then go to
Manhattan
> for the conf and launch.. Since it is close enough, I will stay
with my
> grandparents and save on the hotel bill. I know the area much
better than
> you would expect for someone from New Jersey....
>
> Also, what is JNSC and where exactly is the launch from???
>
> Keith
>
>
> On Sat, 1 Jun 2002, Mark Conner wrote:
>
> > Hi Keith,
> >
> > The symposium is scheduled for Friday, July 5th starting at
9am
> > and lasting most of the day. The launch will be Saturday the
6th
> > with a rain date of Sunday the 7th.

> >
> > I believe both Manhattan and Topeka have limited air service,
but
> > it's probably expensive. It's probably more cost-effective
to
> > travel to Kansas City (MCI) and drive a rental car the 120
miles
> > (2 hrs) from the airport to Manhattan.
> >
> > Your return date depends on how sure you want to be of seeing
the
> > launches. If you go back Sunday afternoon, you could chase
with
> > us on Saturday if we get off the ground, or if it ends up
being
> > on Sunday you'd at least see the launch.
> >
> > 73 de Mark N9XTN
> >
> > ----- Original Message -----
> > From: "Keith Sproul" <ksproul@...>
> > To: <GPSL@yahoogroups.com>
> > Sent: Friday, May 31, 2002 21:24
> > Subject: [GPSL] July 4th weekend
> >
> >
> > >
> > > Can someone tell me where and when the events are for the
July
> > 5th-6th
> > > weekend? I am making my travel plans etc..
> > >
> > > Keith Sproul
> > >
> >
> >
> >
> >
> >
> > To unsubscribe from this group, send an email to:
> > GPSL-unsubscribe@yahoogroups.com
> >
> >
> >
> > Your use of Yahoo! Groups is subject to
http://docs.yahoo.com/info/terms/
> >
> >
> >
>

> --
> Keith Sproul Ham Radio: WU2Z
> Student Housing Network Coordinator 732 445-3695 Work
> Rutgers University Computing Services 732 445-2968 Fax
> mailto://ksproul@...
>
>
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> ---------- ~->
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to
http://docs.yahoo.com/info/terms/
>
>

48. Frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 16:45:45 UTC
From: Mark Conner
Topic: 48 Message: 48

Hi everybody,

It's been a busy few weeks, and it's not getting any better for me. In addition to the GPSL, I have a design review for a software project next week, we are doing some minor renovation, painting, and installing new floor and carpet in the house in June, and two weeks after the GPSL I'll be getting married.

I think we are gravitating towards the use of 144.34 MHz for primary APRS use for all payloads that will support it. I have been told that it's also used for FM simplex for ATV DX coordination, but most balloon groups use it for non-.39 work. ANSR uses 70cm for downlinks, so they'll be the exception. Backup beacons can use 144.39 MHz if desired, keeping in mind that you should keep the rate down (1x/minute or less) so we don't hog the channel.

We have used 147.585 MHz for SSTV in the past in case anyone plans to fly that mode. A simplex repeater can use 446.300 MHz which appears to be pretty clear in this area.

I believe we have frequency information for ANSR, TVNSP, KD0FW, and NSTAR, though not yet compiled in one place. I would like to get info from EOSS, WB8ELK, HABITAT/SkyLab, and Traveler. I don't think we have reps from Traveler and EOSS on the GPSL list, so I'll see about getting them to come up on the net here. If you've posted your info elsewhere, please copy it here to the GPSL list so we have it archived. See http://groups.yahoo.com/group/GPSL/files/ANSRFreqPlan.txt for an example. You can either post it or upload it to the files area.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

49. EOSS "Standard" Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-01 20:50:20 UTC
From: lcerney
Topic: 49 Message: 49

Hello all,

EOSS "standard" frequencies are:

Telemetry 144.34 MHz
Tracking Beacon 147.555 MHz
xBand Down 147.555 MHZ
Up 445.975 MHz
ATV 426.25 MHz
Simplex in field 146.58 MHz

I also suggest a back channel frequency for each group to keep
tactical chatter off the repeater. EOSS could use our xBand Up link
frequency of 445.975 simplex.

This is a preliminary listing. Many Freqs can be changed if needed.
I'm sure Mike, W5VSI, will have more to add when he gets on the list.

73.....
Larry K0ANI

50. GPSL Logos

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-03 15:08:45 UTC
From: paul.verhage@boiseschools.org
Topic: 50 Message: 50
Attachments: 4 described; binary payloads are missing from this source WARC

Let me try again. This time the logo and saying are in Corel Draw. Feel free to do with the logos as you wish, but make sure it's not something embarassing. I plan to bring a t-shirt with the logos.

Paul

51. GPSL cancellation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-06 04:03:18 UTC
From: aa0p
Topic: 51 Message: 51

I am sorry, but an emergency reschedule at work has caused me to cancel my particpation at GPSL 2002. As this project is of National need, I will not be able to attend your fine symposium. I will however, endeaver to get our ANSR video up to the EOSS team and I hope it will tell our story here in dry, dry, dry, hot, hot, Arizona. I will also write a tribute to Bill Brown from my early memories of his projects and the inspriration he provided to us in Colorado and that we still feel in Arizona. Sorry for the cancellation.

73 de AA0P

52. Re:GPSL cancellation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-06 05:58:54 UTC
From: K. Mark Caviezel
Topic: 51 Message: 52

Shucks, Jack, sorry to hear the news.

I had been thinking about lofting a low altitude
floater from Denver to Manhattan, but the critical
mass for that project just hasn't formed, and indeed I
will be out of the country July 5th and onwards.

If any of the GPSL participant groups want to try
their hand at a modest sized zero pressure
polyethelene floater, just let me know. I'd be happy
to provide a bag for the GPSL event. Check photos
from EOSS 55 mission archieves to see one of my home
built bags in action.

- KMC KC0JHQ

Do You Yahoo!?
Yahoo! - Official partner of 2002 FIFA World Cup
http://fifaworldcup.yahoo.com

53. Re: [GPSL] GPSL cancellation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-06 06:06:13 UTC
From: wb8elk@aol.com
Topic: 51 Message: 53

Sorry to hear about that Jack,

I was looking forward to seeing you again....guess I'll just have to make the trip to hot hot dry dry Arizona from hot hot muggy muggy Alabama!!!

I'll try to send a balloon your way this Summer special delivery balloon mail.

73s de Bill WB8ELK

54. Frequencies for WB8ELK Balloon for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-06 06:14:49 UTC
From: wb8elk@aol.com
Topic: 54 Message: 54

I am still thinking about the payload I'll be launching...scavenging parts from a dozen past payloads sitting in my garage at the moment. Currently I plan to fly an altitude record attempt with APRS GPS on 147.45 MHz (alternates are 144.34, 144.36 or 144.39) and camera video on 434 MHz ATV....I'll also have a 20 milliwatt 28.322 MHz CW transmitter as well for tracking.

73s de Bill Brown WB8ELK

55. Re: SiRF receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-06 19:58:08 UTC
From: Ralph Wallio, W0RPK
Topic: 55 Message: 55

Michael,

My response is delayed because I have been on the road for several days. Thank you for this good news. There are very few of us involved in amateur high altitude ballooning with roughly 10 active programs nationwide at any given time. Regardless, GPS receiver performance above 60kft is absolutely necessary.

We do not have access to a GPS simulator so the only method we have to test for high altitude performance is to fly a mission and find out. Typically we fly a primary receiver we already understand while we test a secondary receiver. Primary and secondary receiver NMEA output rides an Amateur Radio telemetry downlink to ground stations either directly or via payload processing.

I maintain a web page where we attempt to steer designers toward GPS receivers we know will work at high altitudes (see http://users.crosspaths.net/~wallio/gps60kft.html). I would like to add your information to this list but we first need to fly a test mission. Unfortunately all SIRF and partner, e.g., AXIOM, specification sheets I have seen specify maximum altitude as 60,000ft (this includes all SIRF specification sheets in your web pages).

Manifests for several flights in early July are already locked but we will prepare for a test flight and advise you of results.

Regards, Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Never use software to compensate for a poor hardware system

----- Original Message -----
From: "Michael Castle" <michael.castle@...>
To: <wallio@...>
Sent: Monday, May 27, 2002 17:16 PM
Subject: SiRF receivers

> I work for SiRF and can confirm that all SiRFstar 1 and 2 receivers will
> work over 60kft. Also SiRF receivers modules are very cheap now, and
have
> some excellent low power modes which may be useful for ballooning.
> Regards,
> Michael Castle

56. Re: [GPSL] Re: SiRF receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-07 05:19:37 UTC
From: wb8elk@aol.com
Topic: 55 Message: 56

Ralph,

I flew an Axiom Sandpiper model receiver using the SiRF chipset on a mission in the Gulf of Mexico on our last Rockoon mission...it flew on the launch platform gondola. Their engineer claimed it would work over 60k feet just like the Motorola VP Oncore would...i.e. as long as you didn't exceed the speed limit (somewhere over 600 knots or so), the altitude limit of 60k would not be a problem. Some receivers will lock up at 60k feet regardless of the speed travelled, it depends on the manufacturer. I know that the VP Oncore works great, the Garmin 35 and (if specially modified, the Trimble See Vee 6).

My experience was that although we were only travelling about 20 knots groundspeed, the Axiom Sandpiper receiver completely locked up at 60k feet and never came back up again during the rest of the flight. I haven't tried any more flights with the Axiom units, although I may try an experiment using the very tiny Swift model Axiom receiver that I have as a backup GPS to see if it works above 60k.

73s de Bill WB8ELK

57. Re: [GPSL] Re: SiRF receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-07 12:20:45 UTC
From: Ralph Wallio, W0RPK
Topic: 55 Message: 57

Bill,

Use of SiRFStar chipsets above 60kft is being discussed because AXIOM Sandpiper receivers are appearing on the inexpensive surplus market. I have evaluated a pair of these receivers for terrestrial applications, e.g., APRS, and find documentation and PC software to be readily available.

Michael Castle has further contributed his knowledge that SiRF code will allow receivers based on SiRFStar-II chipsets to work above 60kft when velocity is <1000kts. However, the AXIOM Sandpiper receiver uses the SiRFStar-I chipset which Michael had not yet completely investigated. Your empirical evidence appears to definitively tell us that code in the SiRFStar-I chipset limits performance to altitudes below 60kt regardless of vehicle velocity and acceleration.

All models of AXIOM Swift receivers use SiRFStar-II chipsets so Michael's contribution is valuable.

Please compile and forward detailed information required for an AXIOM Sandpiper entry to http://users.crosspaths.net/~wallio/gps60kft.html and I will add it to the RED list.

For comparison, this what I see when my Sandpiper receivers come up:

SiRF Baseline Version: 1.3.1DKIT144 Axiom Variant: k201AX
$
Build date: Nov 12 1999
$Build time: 14:42:07

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Results may not be reproducible

----- Original Message -----
From: <wb8elk@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, June 07, 2002 0:19 AM
Subject: Re: [GPSL] Re: SiRF receivers

> Ralph,
>
> I flew an Axiom Sandpiper model receiver using the SiRF chipset on a
> mission in the Gulf of Mexico on our last Rockoon mission...it flew on the
> launch platform gondola. Their engineer claimed it would work over 60k
feet
> just like the Motorola VP Oncore would...i.e. as long as you didn't exceed

> the speed limit (somewhere over 600 knots or so), the altitude limit of
60k
> would not be a problem. Some receivers will lock up at 60k feet regardless
of
> the speed travelled, it depends on the manufacturer. I know that the VP
> Oncore works great, the Garmin 35 and (if specially modified, the Trimble
See
> Vee 6).
>
> My experience was that although we were only travelling about 20 knots
> groundspeed, the Axiom Sandpiper receiver completely locked up at 60k feet
> and never came back up again during the rest of the flight. I haven't
tried
> any more flights with the Axiom units, although I may try an experiment
using
> the very tiny Swift model Axiom receiver that I have as a backup GPS to
see
> if it works above 60k.
>
> 73s de Bill WB8ELK

58. Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-08 18:32:29 UTC
From: Mark Conner
Topic: 58 Message: 58

I have uploaded a summary page to:
http://groups.yahoo.com/group/GPSL/files/gpsl_2002_freq_coordinat
ion.htm

If you can't get to the files area, try:
http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm

Please take a look and let me know what to correct or add.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how
efficient of you!" - Ambassador Londo Mollari, Babylon 5

59. Re: [GPSL] Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-09 03:41:29 UTC
From: Zack Clobes
Topic: 58 Message: 59

We also have a low powered, unmodulated transmitter on 147.455.
Zack
----- Original Message -----
From: Mark Conner
To: GPSL List
Sent: Saturday, June 08, 2002 1:32 PM
Subject: [GPSL] Frequency coordination page

I have uploaded a summary page to:
http://groups.yahoo.com/group/GPSL/files/gpsl_2002_freq_coordinat
ion.htm

If you can't get to the files area, try:
http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm

Please take a look and let me know what to correct or add.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how
efficient of you!" - Ambassador Londo Mollari, Babylon 5

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60. Re: [GPSL] Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-09 04:54:52 UTC
From: wb8elk@aol.com
Topic: 58 Message: 60

I'll see if I can move the frequency off 147.455 if I can get a custom oscillator...the cheap one from Digikey puts it right on 147.455...it's a design I've been working on for a cheap 2m FM transmitter for balloons.

73s de Bill WB8ELK

61. Re: [GPSL] Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-09 15:04:43 UTC
From: Zack Clobes
Topic: 58 Message: 61
Attachments: 1 described; binary payloads are missing from this source WARC

We're also interested in building a cheap, 2m backup signal. I've attached the data sheets on a Motorola MC2833 (which aren't being manufactured anymore, but you can still get them). Radio Shack has a crystal that will put it in the 2m band (I forget where off the top of my head) that they sell for about $1.

That's as far as I've gotten on the project - maybe this summer.
Zack Clobes, W0ZC
Project: Traveler
----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Saturday, June 08, 2002 11:54 PM
Subject: Re: [GPSL] Frequency coordination page

I'll see if I can move the frequency off 147.455 if I can get a custom
oscillator...the cheap one from Digikey puts it right on 147.455...it's a
design I've been working on for a cheap 2m FM transmitter for balloons.

73s de Bill WB8ELK

To unsubscribe from this group, send an email to:
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62. Re: [GPSL] Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-10 04:53:59 UTC
From: wb8elk@aol.com
Topic: 58 Message: 62

The one I was planning on flying uses the MC2833 (flown it many times and it works just fine, but unfortunately it's been discontinued). I'm working on another design using a VCXO from Digikey.

- Bill WB8ELK

63. Re: [GPSL] Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-13 14:20:39 UTC
From: Ralph Wallio, W0RPK
Topic: 58 Message: 63

Mark,

Is the frequency list stable enough to be added to the GPSL web page?

-w0rpk

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
To: "GPSL List" <gpsl@yahoogroups.com>
Sent: Saturday, June 08, 2002 13:32 PM
Subject: [GPSL] Frequency coordination page

> I have uploaded a summary page to:
> http://groups.yahoo.com/group/GPSL/files/gpsl_2002_freq_coordinat
> ion.htm
>
> If you can't get to the files area, try:
> http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm
>
> Please take a look and let me know what to correct or add.
>
> 73 de Mark N9XTN
> ------
> Mark D. Conner
> E-mail: n9xtn@...
> Homepage: http://members.cox.net/mconner1
> "Arrogance and stupidity, all in the same package.....how
> efficient of you!" - Ambassador Londo Mollari, Babylon 5

64. Re: [GPSL] Frequency coordination page

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-13 15:24:36 UTC
From: Mark Conner
Topic: 58 Message: 64

Probably is OK to be added. Can you reach the page w/o signing into
Yahoo? If so, it may be better to link to it on Yahoo so that when I
update it I can just do it there.

- Mark

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
Date: Thursday, June 13, 2002 9:20 am
Subject: Re: [GPSL] Frequency coordination page

> Mark,
>
> Is the frequency list stable enough to be added to the GPSL web page?
>
> -w0rpk
>
>
> ----- Original Message -----
> From: "Mark Conner" <n9xtn@...>
> To: "GPSL List" <gpsl@yahoogroups.com>
> Sent: Saturday, June 08, 2002 13:32 PM
> Subject: [GPSL] Frequency coordination page
>
>
> > I have uploaded a summary page to:
> > http://groups.yahoo.com/group/GPSL/files/gpsl_2002_freq_coordinat
> > ion.htm
> >
> > If you can't get to the files area, try:
> > http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm
> >
> > Please take a look and let me know what to correct or add.
> >
> > 73 de Mark N9XTN
> > ------
> > Mark D. Conner
> > E-mail: n9xtn@...
> > Homepage: http://members.cox.net/mconner1
> > "Arrogance and stupidity, all in the same package.....how
> > efficient of you!" - Ambassador Londo Mollari, Babylon 5
>
>
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>
>
>

65. APRS equipped record breaking amateur rocket

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-13 22:22:52 UTC
From: Ralph Wallio, W0RPK
Topic: 65 Message: 65

NEWINGTON, CT, Jun 13, 2002--If all goes as planned, a group of Amateur Radio operators and amateur rocket enthusiasts will make aerospace history this month by putting the first amateur rocket into space. If the attempt succeeds, the suborbital vehicle will carry its Amateur Radio payloads to an altitude of more than 60 nautical miles.

http://www.arrl.org/news/stories/2002/06/13/4/?nc=1

"Spaceshot 2001" / ?Spaceshot 2002? Update Page
Record-setting September 29, 2000 initial test flight

http://www.remarkable.com/rocket/

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Defect prevention is better than cure

66. Fossett tries again

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-13 22:25:51 UTC
From: Ralph Wallio, W0RPK
Topic: 66 Message: 66

Steve Fossett's goal is to make the first solo round the world balloon flight.

http://www.spiritoffreedom.com

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
No system should be more complicated than it need be

67. GPSL update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-14 12:18:08 UTC
From: Ralph Wallio, W0RPK
Topic: 67 Message: 67

PAYLOAD DETAILS

Publicity requests are going out this weekend. Please review payload details near the top of http://users.crosspaths.net/~wallio/GPSL2002.html and forward additions/corrections/deletions to me ASAP.

PRESENTATIONS

Total time for presentations, 9am-noon and 1-5pm, will be 7-hours. We will have 8 presentations and need a few minutes of break time in between. Plan on having 45-minutes per presentation including discussion and questions. The first slot will be opening remarks and short ~5-minute program discussions, e.g., ANSR, EOSS, et al.

A/V SUPPORT

Paul collected A/V support requirements but did not confirm availability of equipment before leaving for an extended trip to the southwest. As I prepare my discussion it occurs to me that support for Power Point, a PC and projector, has not been confirmed. Just in case, I will be ready with a Power Point file and overhead transparencies. Perhaps someone as access to a laptop and projector that can be brought to GPSL so we can depend on having Power Point capabilities.(?)

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Documentation is an essential part of the system

68. Re: [GPSL] GPSL update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-14 16:04:00 UTC
From: Gene Harlan
Topic: 67 Message: 68

Ralph & all,

I really wanted to come to GPSL, visit and write an article for Amateur Television Quarterly, but it just is not going to happen. A couple of questions:

Is there someone that would be willing to cover the event with a write-up and photos?

Will any of the forums be videotaped, and if so can copies be purchased?

All the best to those that are going. I know you will all have fun.

Gene Harlan - WB9MMM
Harlan Technologies - publisher of
OSCAR Satellite Report - OSR@...
Amateur Television Quarterly - ATVQ@...
http://www.hampubs.com

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
To: "GPSL" <GPSL@yahoogroups.com>; <wu2z@...>
Sent: Friday, June 14, 2002 7:18 AM
Subject: [GPSL] GPSL update

> PAYLOAD DETAILS
>
> Publicity requests are going out this weekend. Please review payload
> details near the top of http://users.crosspaths.net/~wallio/GPSL2002.html
> and forward additions/corrections/deletions to me ASAP.
>
> PRESENTATIONS
>
> Total time for presentations, 9am-noon and 1-5pm, will be 7-hours. We
will
> have 8 presentations and need a few minutes of break time in between.
Plan
> on having 45-minutes per presentation including discussion and questions.
> The first slot will be opening remarks and short ~5-minute program
> discussions, e.g., ANSR, EOSS, et al.
>
> A/V SUPPORT
>
> Paul collected A/V support requirements but did not confirm availability
of
> equipment before leaving for an extended trip to the southwest. As I
> prepare my discussion it occurs to me that support for Power Point, a PC

and
> projector, has not been confirmed. Just in case, I will be ready with a
> Power Point file and overhead transparencies. Perhaps someone as access to
a
> laptop and projector that can be brought to GPSL so we can depend on
having
> Power Point capabilities.(?)
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://members.crosspaths.net/wallio
> Documentation is an essential part of the system
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

69. GPSL reporter and video guru wanted

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-14 18:13:00 UTC
From: Ralph Wallio, W0RPK
Topic: 69 Message: 69

This is the second request we have had for a GPSL video tape. Seminar discussions would need to be taped morning and afternoon, a total of roughly 6-hours. Additional footage from the mass launch could be added to almost fill an SLP T-160. Required equipment would include a camcorder or video camera, a large tripod, a VCR (so the seminar master could be SLP), and either a wireless or wired microphone up forward near the speaker. Two or more volunteers could share the pan-tilt-zoom chore. I suspect there will be paid requests for more than just two copies. If anybody knows anybody who knows anybody that would like to take responsibility for this service please ask for their support.

Anyone who would like to report on GPSL for Gene Harlan, WB9MMM, and his ATV Quarterly please contact him directly.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Customer education is a integral part of system design

----- Original Message -----
From: "Gene Harlan" <atvq@...>
To: <GPSL@yahoogroups.com>; <wu2z@...>
Sent: Friday, June 14, 2002 11:04 AM
Subject: Re: [GPSL] GPSL update

> Ralph & all,
>
> I really wanted to come to GPSL, visit and write an article for Amateur
> Television Quarterly, but it just is not going to happen. A couple of
> questions:
>
> Is there someone that would be willing to cover the event with a write-up
> and photos?
>
> Will any of the forums be videotaped, and if so can copies be purchased?
>
> All the best to those that are going. I know you will all have fun.
>
> Gene Harlan - WB9MMM
> Harlan Technologies - publisher of
> OSCAR Satellite Report - OSR@...
> Amateur Television Quarterly - ATVQ@...
> http://www.hampubs.com

70. What are the chase frequencies for GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-16 03:53:00 UTC
From: Zack Clobes
Topic: 70 Message: 70

[Body unavailable in the source archive]

71. More GPSL frequency coordination items

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-18 04:11:49 UTC
From: Mark Conner
Topic: 71 Message: 71

A few questions for some of the groups planning to fly next month.

I define "time-slotting" as the ability to keep your transmissions between X and Y seconds after the minute, using the time reported in the NMEA output from your GPS.

EOSS: Can your 144.34 payload time-slot its beacons? What callsigns will you be using?

TVNSP: I believe you're using the KPC-3+ second serial port to control transmissions for your 144.34 payload - is this correct? If so, you can therefore time-slot. Are you planning to fly a backup beacon - if so on what frequency? What callsigns will be used?

WB8ELK: Can you time-slot your 144.34 beacons? If not, does it beacon every X seconds, or is it semi-random? What call do you plan to use?

KD0FW: Is it OK to change your simplex repeater to 147.585, or do you have another frequency you'd prefer?

Traveler: You sent me e-mail earlier that your programming will not time-slot. Is it every X seconds, or semi-random? I think as long as it's not too close to 60 seconds for a repeat interval we shouldn't have a problem.

ANSR: since you're transmitting on 70cm you can set up your telemetry as you wish.

I would like to use a 70cm frequency for chase comms - if we use 2m we'll desense our data reception (though ANSR has the opposite problem). We'll probably select a convenient "rally point" near the predicted landings for everyone to head towards after they recover their payloads so everyone knows where to go if they lose comm with the rest. Depending on where we end up going, cell phone coverage ranges fair to none. I have no problems using the NSTAR simplex repeater (if it flies) as a chase frequency - this will let distant stations listen in on the fun.

Once I get answers back on the above, I'll work out a strawman proposal for the division of clock times and intervals to be used.

73 de Mark N9XTN

72. AV Equipment

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-18 19:55:56 UTC
From: paul.verhage@boiseschools.org
Topic: 72 Message: 72

I'll call my mom tonight and find out about the A/V equipment at the library. She asked me to contact another person at the library, but I never got an answer back. I know there will be a TV/VCR and overhead. I want to confirm the LCD projector and PC.

Paul

73. Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-18 19:59:41 UTC
From: paul.verhage@boiseschools.org
Topic: 73 Message: 73

If we order six tanks of helium for GPSL, I can get them at $45 each. I'll need 1.5 tanks, Mark asked for 1, and I've had a request for another tank.

Please let me know if you need helium. I need to order two more tanks to get the lower price.

Who can help me move tanks to the launch site?

Paul

74. Re: [GPSL] Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-18 23:50:12 UTC
From: Zack Clobes
Topic: 73 Message: 74

Did you get our tank?

Zack Clobes, W0ZC
Project: Traveler
----- Original Message -----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Tuesday, June 18, 2002 2:59 PM
Subject: [GPSL] Helium

If we order six tanks of helium for GPSL, I can get them at $45
each. I'll need 1.5 tanks, Mark asked for 1, and I've had a request
for another tank.

Please let me know if you need helium. I need to order two more
tanks to get the lower price.

Who can help me move tanks to the launch site?

Paul

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75. Re: [GPSL] Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 01:46:55 UTC
From: wb8elk@aol.com
Topic: 73 Message: 75

Hi Paul,

Did you include the tank for my balloon in your order list..(just in case you didn't see my former email asking for a tank)?

- Bill WB8ELK

76. Re: [GPSL] Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 21:17:02 UTC
From: paul.verhage@boiseschools.org
Topic: 73 Message: 76

I have you down for a tank.

Paul

> Hi Paul,
>
> Did you include the tank for my balloon in your order list..(just in case
> you didn't see my former email asking for a tank)?
>
> - Bill WB8ELK
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

77. Re: [GPSL] Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 21:18:14 UTC
From: paul.verhage@boiseschools.org
Topic: 73 Message: 77

I have you down for a tank.

Paul

> Did you get our tank?
>
> Zack Clobes, W0ZC
> Project: Traveler
> ----- Original Message -----
> From: paul.verhage@...
> To: GPSL@yahoogroups.com
> Sent: Tuesday, June 18, 2002 2:59 PM
> Subject: [GPSL] Helium
>
>
> If we order six tanks of helium for GPSL, I can get them at $45
> each. I'll need 1.5 tanks, Mark asked for 1, and I've had a request
> for another tank.
>
> Please let me know if you need helium. I need to order two more
> tanks to get the lower price.
>
> Who can help me move tanks to the launch site?
>
> Paul
>
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>

78. Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 21:40:29 UTC
From: paul.verhage@boiseschools.org
Topic: 37 Message: 78

Here's the list of people I have wanting helium. If you're name doesn't appear and you want helium, please let me know ASAP. I'll check email on Friday and update my list. If you get this message after Friday, please leave a message on my cell phone (208) 631-7162.

Me
Mark Conner
Bill Brown
Zack Clobes
Mike Bogard

Helium is $45 a tank, payable during the symposium. I plan to drop the tanks off at the Johnson Near Space Center on the 2nd of July. I'll pick up an extra tank. I'm assuming everyone wants just one tank. The tanks hold something like 240 cu ft of helium, so I've had to use part of a second tank to launch a 12 pound capsule. With the extra tank, we'll have 6 tanks, the minimum needed fo the $45 price. I'd like to see if I can talk someone into getting a second tank as a backup. I'll have all tanks gauged before leaving Linweld, just to make darn sure we don't get an empty tank.

I still need to line up help moving helium tanks, Linweld will not deliver tanks at this price.

Paul

79. Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 21:41:56 UTC
From: paul.verhage@boiseschools.org
Topic: 79 Message: 79

I've only had a couple of people ask for Proceedings. I'll collect any manuscripts at the symposium. Afterwards, I'll make them available in bound form. If you'd like a copy, let me know at the symposium.

Paul

80. Meal Reservations

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 21:43:37 UTC
From: paul.verhage@boiseschools.org
Topic: 80 Message: 80

I'll be in Kansas on the 1st of July. At that time I'll make
reservations at the Gold Fork and Sirloin Stockade for 20 people.
Is there a consensus that that is a good working number?

Paul

81. Mission Control

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 22:03:41 UTC
From: paul.verhage@boiseschools.org
Topic: 81 Message: 81

Is anyone planning to attend the launches but not go on chase? If so, I'd like to appoint you as Mission Control for the flights. We'd have to get you set up a day or two before the symposium.

Paul

82. Re: [GPSL] Meal Reservations

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 22:29:43 UTC
From: Zack Clobes
Topic: 80 Message: 82

We'll have four adults and about 3 children (I'm assuming Jon's kids will be with him)
Zack Clobes, W0ZC
Project: Traveler

----- Original Message -----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Wednesday, June 19, 2002 4:43 PM
Subject: [GPSL] Meal Reservations

I'll be in Kansas on the 1st of July. At that time I'll make
reservations at the Gold Fork and Sirloin Stockade for 20 people.
Is there a consensus that that is a good working number?

Paul

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GPSL-unsubscribe@yahoogroups.com

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83. Re: [GPSL] Got Helium?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 22:31:40 UTC
From: Zack Clobes
Topic: 37 Message: 83

We'll go ahead and pay for a full tank, but we'll only be using a 600g balloon for 2lbs. We could probably get by with other people's remains. A couple of half tanks should be more than enough.

However it works out.
Zack Clobes, W0ZC
Project: Traveler
----- Original Message -----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Wednesday, June 19, 2002 4:40 PM
Subject: [GPSL] Got Helium?

Here's the list of people I have wanting helium. If you're name doesn't appear and you want helium, please let me know ASAP. I'll check email on Friday and update my list. If you get this message after Friday, please leave a message on my cell phone (208) 631-7162.

Me
Mark Conner
Bill Brown
Zack Clobes
Mike Bogard

Helium is $45 a tank, payable during the symposium. I plan to drop the tanks off at the Johnson Near Space Center on the 2nd of July. I'll pick up an extra tank. I'm assuming everyone wants just one tank. The tanks hold something like 240 cu ft of helium, so I've had to use part of a second tank to launch a 12 pound capsule. With the extra tank, we'll have 6 tanks, the minimum needed fo the $45 price. I'd like to see if I can talk someone into getting a second tank as a backup. I'll have all tanks gauged before leaving Linweld, just to make darn sure we don't get an empty tank.

I still need to line up help moving helium tanks, Linweld will not deliver tanks at this price.

Paul

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84. Re: [GPSL] Meal Reservations

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 01:31:22 UTC
From: Mark Conner
Topic: 80 Message: 84

NSTAR will have about 6.

- Mark

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 19, 2002 16:43
Subject: [GPSL] Meal Reservations

> I'll be in Kansas on the 1st of July. At that time I'll make
> reservations at the Gold Fork and Sirloin Stockade for 20
people.
> Is there a consensus that that is a good working number?
>
> Paul
>

85. Re: [GPSL] More GPSL frequency coordination items

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 02:01:43 UTC
From: Mark Conner
Topic: 71 Message: 85

Answers below from TVNSP, Traveler, and KD0FW. Still awaiting inputs from EOSS and WB8ELK.

I define "time-slotting" as the ability to keep your transmissions between X and Y seconds after the minute, using the time reported in the NMEA output from your GPS.

EOSS: Can your 144.34 payload time-slot its beacons? What callsigns will you be using?

TVNSP: I believe you're using the KPC-3+ second serial port to control transmissions for your 144.34 payload - is this correct? If so, you can therefore time-slot. Are you planning to fly a backup beacon - if so on what frequency? What callsigns will be used?

TVNSP will transmit between :00 and :11 using KD4STH-11. No backup beacon.

WB8ELK: Can you time-slot your 144.34 beacons? If not, does it beacon every X seconds, or is it semi-random? What call do you plan to use?

KD0FW: Is it OK to change your simplex repeater to 147.585, or do you have another frequency you'd prefer?

KD0FW's simplex repeater will be on 147.585 MHz.

Traveler: You sent me e-mail earlier that your programming will not time-slot. Is it every X seconds, or semi-random? I think as long as it's not too close to 60 seconds for a repeat interval we shouldn't have a problem.

Traveler will beacon at an interval of a few seconds more or less than 60 so we don't hit one payload's slotted beacons all the time.

73 de Mark N9XTN

86. Time Slot APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-19 21:28:33 UTC
From: Michael Gray
Topic: 86 Message: 86

If a TDMA (Time Slot) method of sharing the 144.34 MHz frequency is used for APRS, someone should specify if the time is GPS or UTC. There is currently a 13 second difference between the GPS and UTC time of day. Most GPS engines correct for the difference and report UTC, but not all of them do or they can be configured to report either one.

87. Re: [GPSL] More GPSL frequency coordination items

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 06:39:53 UTC
From: wb8elk@aol.com
Topic: 71 Message: 87

Mark,

I'll have my frequencies figured out this weekend and will post it on the group.

- Bill WB8ELK

88. Re: [GPSL] Meal Reservations

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 06:41:05 UTC
From: wb8elk@aol.com
Topic: 80 Message: 88

Depending on whether I can convince someone to travel along with me from Huntsville, AL....there will be either 1 or 2 for dinner.

- Bill WB8ELK

89. Re: [GPSL] Time Slot APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 13:07:40 UTC
From: Mark Conner
Topic: 86 Message: 89

Time slotting should be done using UTC, which is the normally
reported time in GGA and RMC strings.

73 de Mark N9XTN

----- Original Message -----
From: "Michael Gray" <mgray@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 19, 2002 21:28
Subject: [GPSL] Time Slot APRS

> If a TDMA (Time Slot) method of sharing the 144.34 MHz
frequency is used
> for APRS, someone should specify if the time is GPS or UTC.
There is
> currently a 13 second difference between the GPS and UTC time
of day. Most
> GPS engines correct for the difference and report UTC, but not
all of them
> do or they can be configured to report either one.
>
> ------------------------ Yahoo! Groups
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> Risk Free!
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>
>
>
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>
>

90. First prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 15:58:41 UTC
From: Mark Conner
Topic: 90 Message: 90

Granted, 2 1/2 week forecasts aren't worth much, but I ran one anyway.

For consistency's sake, I'm going to run predictions using 1000 fpm ascent, 1000 fpm sea-level descent, burst at 95,000 ft. Bursts at lower altitudes will move the predictions a few miles east. Faster ascent and descent will (in general) shorten the distance along the same direction as the original prediction.

With these conditions in mind, the forecast I ran shows a landing 9.5 miles from launch on a bearing of 054 degrees. The forecast indicates we should have warm humid conditions (low 90s in the afternoon) with afternoon and evening thunderstorms.

73 de Mark N9XTN

91. Reservations and Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 19:53:53 UTC
From: paul.verhage@boiseschools.org
Topic: 91 Message: 91

I have the following dinner reservations

Traveller: 7
NSTAR: 6
Bill Brown: 2
Me: 1

Based on these numbers, I'll make reservations for 30. Does this sound good?

For helium, I have the following reservations

Bill Brown: 1
NSTAR: 1
Traveller: 1
Mike Bogard: 1
TVNSP: 2
EOSS: 2

Based on these numbers, I'll get 8 tanks of helium. There may be two half empty tanks in this number, so there should be some cushioning.

Paul
100,000 feet. Been there, Done that.

92. A/V

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 19:55:18 UTC
From: paul.verhage@boiseschools.org
Topic: 92 Message: 92

I just got an email from my mother. There will be a TV/VCR, overhead projector, and an LCD projector with PC and VCR connections.

I'll check out the equipment in two weeks when I get to hot and humid Kansas.

Paul

93. TVNSP Payload Update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 20:24:56 UTC
From: paul.verhage@boiseschools.org
Topic: 93 Message: 93

TVNSP will fly the following payload.

APS camera on scan boom
Geiger counter
Relative humidity and temperate sensor
Mementos
Idaho Airborne Assault (Mr Potatohead with a parachute)

Paul

94. Display Space?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 20:26:19 UTC
From: paul.verhage@boiseschools.org
Topic: 94 Message: 94

Does anyone need space to display their program? I'll arrange for tables if given notice.

Paul

95. Phone Numbers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-20 20:27:08 UTC
From: paul.verhage@boiseschools.org
Topic: 95 Message: 95

Ralph and Mark, can you give me a phone number to contact you?
I don't believe I'll have email access after Friday.

Paul

96. Sproul

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-21 21:22:05 UTC
From: paul.verhage@boiseschools.org
Topic: 65 Message: 96

I just got word, Keith can't make the symposium.

Paul

97. I-gate coverage for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-24 16:21:26 UTC
From: Mark Conner
Topic: 97 Message: 97

Chris WA5RRN in Topeka will provide I-gate coverage for 144.34 MHz for the flights. This should get all but ANSR on the Internet.

73 de Mark N9XTN

98. Long-range forecasts

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-25 20:45:16 UTC
From: Mark Conner
Topic: 98 Message: 98

The long-range forecasts for the 6th fall into one of two categories so far:

1) The high-pressure ridge at 500mb and above is right on top of Kansas or a little to the east. This makes for southerly winds at the surface with plenty of Gulf moisture and heat. The upper winds are very light, making the landing somewhere within a 10-15 mile circle of the launch site.

This isn't so good as there is a large reservoir to the north of the launch site, one to the west, and Fort Riley in between. If we land NE-SE-S of the launch site, we're OK.

2) The ridge shifts westward a bit. This puts the surface high right over Kansas, making the winds light or northeasterly at the surface. Aloft, the winds are from the west or northwest at 20-30 knots.

This scenario gives us more pleasant weather (high 80s with drier air instead of 90s and humid) and a landing about 30 miles to the east or southeast. This in general puts us in a more favorable area for a landing.

So far, none of the predictions have indicated a chase >40 miles, so we may be able to stick around after launch for up to an hour and entertain questions, etc.

73 de Mark N9XTN

99. Time slot assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-26 02:42:58 UTC
From: Mark Conner
Topic: 99 Message: 99

I've given the five groups who can time slot on 144.34 their slots. See http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm for details. The data will probably be on Ralph's page soon.

I went with 12-second windows once per minute because I figured trying to hit a six-second window may be difficult if you want to send more than one packet. Comments welcome - it's not too late.

EOSS has indicated they are still considering whether to fly ATV or the cross-band repeater - probably will not be both. If anyone else has updates on their payloads (especially RF-emitting ones), let me know.

73 de Mark N9XTN

100. Re: [GPSL] Reservations and Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-26 20:36:19 UTC
From: Don Pfister
Topic: 91 Message: 100

Paul, I do not see my helium listed or dinner reservations (however, I didn't make dinner reservations because I wasn't sure if when we would make it).

paul.verhage@... wrote:

> I have the following dinner reservations
>
> Traveller: 7
> NSTAR: 6
> Bill Brown: 2
> Me: 1
>
> Based on these numbers, I'll make reservations for 30. Does this
> sound good?
>
> For helium, I have the following reservations
>
> Bill Brown: 1
> NSTAR: 1
> Traveller: 1
> Mike Bogard: 1
> TVNSP: 2
> EOSS: 2
>
> Based on these numbers, I'll get 8 tanks of helium. There may be
> two half empty tanks in this number, so there should be some
> cushioning.
>
> Paul
> 100,000 feet. Been there, Done that.

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

101. Alternate launch site may be needed

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-27 19:17:08 UTC
From: Mark Conner
Topic: 101 Message: 101

Today's predictions for both Saturday and Sunday (6th and 7th) show extremely light winds below 70,000 ft. Both predictions show a landing about 7 miles from the launch site on a bearing of about 020. This is in the general area of the KSU campus in Manhattan.

There's not much we can do to help ourselves to get away from town given this wind profile. Going for a slower ascent rate would move the prediction north of town towards a reservoir. Going for a lower burst or cutdown would move the prediction east along the Kansas River, which in general is wooded.

If this wind profile holds up (and it's a 9 day prediction after all, so it may well not), we need to investigate another launch site. The town of Alta Vista, about 15 miles south of I-70 on KS 177, would be ideal in this situation. However, I don't know if there is a park, ball diamond, or some other public open ground we could use. Alma (15 miles south of Exit 328) appears to have a high school with a football field and other open space and would also be a decent site (except for its proximity to I-70).
http://terraserver.homeadvisor.msn.com/image.asp?
S=10&T=1&X=3674&Y=21612&Z=14&W=2

Perhaps Paul can do some recon for us next week before the symposium.

73 de Mark N9XTN

102. Re: [GPSL] Alternate launch site may be needed

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-27 20:53:08 UTC
From: Don Pfister
Topic: 101 Message: 102

How about the airport at Herrington? They wanted us to launch there before. It's a little farther south (one of the capsules landed near there last year).

Just a thought,
Don

Mark Conner wrote:

> Today's predictions for both Saturday and Sunday (6th and 7th) show
> extremely light winds below 70,000 ft. Both predictions show a landing
> about 7 miles from the launch site on a bearing of about 020. This is
> in the general area of the KSU campus in Manhattan.
>
> There's not much we can do to help ourselves to get away from town
> given this wind profile. Going for a slower ascent rate would move the
> prediction north of town towards a reservoir. Going for a lower burst
> or cutdown would move the prediction east along the Kansas River, which
> in general is wooded.
>
> If this wind profile holds up (and it's a 9 day prediction after all,
> so it may well not), we need to investigate another launch site. The
> town of Alta Vista, about 15 miles south of I-70 on KS 177, would be
> ideal in this situation. However, I don't know if there is a park,
> ball diamond, or some other public open ground we could use. Alma (15
> miles south of Exit 328) appears to have a high school with a football
> field and other open space and would also be a decent site (except for
> its proximity to I-70).
> http://terraserver.homeadvisor.msn.com/image.asp?
> S=10&T=1&X=3674&Y=21612&Z=14&W=2
>
> Perhaps Paul can do some recon for us next week before the symposium.
>
> 73 de Mark N9XTN
>
>
> To unsubscribe from this group, send an email to:
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--

[Signature File]
Name=Don Pfister KA0JLF

HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

103. Re: [GPSL] Alternate launch site may be needed

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-27 20:55:55 UTC
From: Don Pfister
Topic: 101 Message: 103

As I recall they had a big (old bomber base?) hanger building they were going to let us prep and fill in.

Don

Don Pfister wrote:

> How about the airport at Herrington? They wanted us to launch there before. It's
> a little farther south (one of the capsules landed near there last year).
>
> Just a thought,
> Don
>
> Mark Conner wrote:
>
> > Today's predictions for both Saturday and Sunday (6th and 7th) show
> > extremely light winds below 70,000 ft. Both predictions show a landing
> > about 7 miles from the launch site on a bearing of about 020. This is
> > in the general area of the KSU campus in Manhattan.
> >
> > There's not much we can do to help ourselves to get away from town
> > given this wind profile. Going for a slower ascent rate would move the
> > prediction north of town towards a reservoir. Going for a lower burst
> > or cutdown would move the prediction east along the Kansas River, which
> > in general is wooded.
> >
> > If this wind profile holds up (and it's a 9 day prediction after all,
> > so it may well not), we need to investigate another launch site. The
> > town of Alta Vista, about 15 miles south of I-70 on KS 177, would be
> > ideal in this situation. However, I don't know if there is a park,
> > ball diamond, or some other public open ground we could use. Alma (15
> > miles south of Exit 328) appears to have a high school with a football
> > field and other open space and would also be a decent site (except for
> > its proximity to I-70).
> > http://terraserver.homeadvisor.msn.com/image.asp?
> > S=10&T=1&X=3674&Y=21612&Z=14&W=2
> >
> > Perhaps Paul can do some recon for us next week before the symposium.
> >
> > 73 de Mark N9XTN

104. Re: [GPSL] Alternate launch site may be needed

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-27 21:57:25 UTC
From: Mark Conner
Topic: 101 Message: 104

That would be about 40 miles from Manhattan - not unreasonable, and sure beats not launching. I see on Mapquest there is an airport a few miles east of Herington - assume that's it. If they have a hangar we can use that morning that would be great.

The only downside is that we have Junction City and Fort Riley to our north about 25 miles. If we have a 350-020 track >25 miles, we'd have to do something else.

Don, do you have contacts at the Herington airport or can you get some? Sure would be nice if we could have that prearranged as an alternate site if we need it.

- Mark

----- Original Message -----
From: Don Pfister <ka0jlf@...>
Date: Thursday, June 27, 2002 3:55 pm
Subject: Re: [GPSL] Alternate launch site may be needed

> As I recall they had a big (old bomber base?) hanger building they
> were going to let
> us prep and fill in.
>
> Don
>
> Don Pfister wrote:
>
> > How about the airport at Herrington? They wanted us to launch
> there before. It's
> > a little farther south (one of the capsules landed near there
> last year).
> >
> > Just a thought,
> > Don

105. ATV coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-28 01:56:53 UTC
From: Mark Conner
Topic: 105 Message: 105

I received the following from Mike W5VSI of EOSS:

Re ATV on 434 and 439 MHz: remember that if these are NTSC AM sigs,
they have sidebands running out to +/- 6 MHz around the carrier freq.
Thus the 434 USB will go out to 440 Mhz, and the 439 LSB will go down to 433 MHz. Although the video bandwidth may be pretty puny at the extreme edges of the sidebands, the audio and chroma subcarriers of 4.5 and 3.58 MHz will also appear in both sidebands.
Since each ATV signal occupies 12 MHz, the minimum carrier separation
to avoid adjacent channel QRM is 12 MHz. So two ATV sigs will occupy
24 MHz inside a 30 MHz-wide ham band, and that's why I don't plan on bringing out ATV.

For WB8ELK and KD0FW - can you separate your carrier frequencies some more, or should we just fly it as is and see what we get? I don't have any experience with ATV to have a feel for how badly this will affect us.

73 de Mark N9XTN

106. Re: [GPSL] ATV coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-28 03:31:49 UTC
From: Michael L. Bogard
Topic: 105 Message: 106

I would think that a few miles of separation and that I will be horizontal polarized would have some effect on the out come. I think that it would be great to see three video signals all on at the same time in the band. If we don't try it we will never know for sure.

107. Re: [GPSL] ATV coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-28 06:02:23 UTC
From: wb8elk@aol.com
Topic: 105 Message: 107

There will be some interference with strong signals from the two balloons at 434 and 439.25 MHz, but probably not too bad when they get weaker, particularly if the two balloons seperate a bit during the flight (different ascent rates will help out here).....it will be interesting and folks will have lots of multi-channel ATV to watch on Saturday.

73s de Bill WB8ELK

108. Re: [GPSL] ATV coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-28 15:34:41 UTC
From: Mark Conner
Topic: 105 Message: 108

I agree, if the choice is fly it this way or don't fly it, let's put it
in the air and see what happens.

73 de Mark N9XTN

----- Original Message -----
From: wb8elk@...
Date: Friday, June 28, 2002 1:02 am
Subject: Re: [GPSL] ATV coordination

> There will be some interference with strong signals from the two
> balloons at
> 434 and 439.25 MHz, but probably not too bad when they get weaker,
> particularly if the two balloons seperate a bit during the flight
> (different
> ascent rates will help out here).....it will be interesting and
> folks will
> have lots of multi-channel ATV to watch on Saturday.
>
> 73s de Bill WB8ELK
>
>
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>

109. Forecast update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-28 16:05:04 UTC
From: Mark Conner
Topic: 109 Message: 109

Regardless of the winds, it should be hot and humid next weekend (highs in the 90s, dew points in the high 60s). The default ascent/descent profile I use (1000 fpm up/95kft burst/1000 fpm sea-level descent) has moved the landing to 337 at 16 miles. From the Manhattan site, that puts it down in the north part of the Fort Riley cantonment.

If we use the Herington airport, the landing is in a rural area about 10-12 miles SW of Junction City. The airport's coordinates are 38.7018 N and 96.8150 W (in decimal degrees). Most any permutation of fast/slow/high-burst/low-burst gives favorable landing areas.

I've attached the forecast wind profile for those who'd like to run predictions themselves.

- Mark

```
*1200Z 06 07 2002 ,UNK,Intact ,0 ,0 ,12 ,12
2641,173,13
5049,186,15
10443,175,11
19393,184,11
25030,198,13
31939,213,13
36093,243,11
40942,271,11
46864,285,6
54869,113,6
68638,88,15
87753,88,23
```

110. Re: [GPSL] Forecast update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-29 05:14:21 UTC
From: wb8elk@aol.com
Topic: 109 Message: 110

Hi Mark,

It's been my experience that during July and August when there are light winds in the jet stream region, the stratospheric winds will prevail and depending on how high the balloons go, quite often you'll end up WEST of the launch site.....unless there is a front coming through, this very well might be the case for the launch.

73s de Bill WB8ELK

111. One week to go

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-29 20:03:21 UTC
From: Mark Conner
Topic: 111 Message: 111

It appears it could be somewhat breezy next Saturday morning. A surface low is forecast to form over the Front Range, and the gradient between than and high pressure to the southeast will make for winds from the south-southwest gusting to about 20 mph in the morning.

The forecast track indicates a landing due north of the launch site at about 25 miles distance. From the Herington airport, this puts the landing just north of Junction City into the south edge of Fort Riley. From the Manhattan site, we end up within a half-mile of Tuttle Creek Lake. I've put graphics of this up at http://members.cox.net/n9xtn/gpsl-2002-forecast.gif .

Still hoping for a change in the forecast, as a northerly track of this distance is kind of a problem.

There is a small airport about 15 miles east of Manhattan at Wamego, a turf field near Council Grove (about 35 miles south of Manhattan), and another turf field at Onaga (30 miles NE of Manhattan). All are public and have little usage according to airnav.com, but have practically no facilities. Any of these sites would give favorable landing areas with some room for error.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

112. Repeater reminder/forecast update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-06-30 15:47:10 UTC
From: Mark Conner
Topic: 112 Message: 112

The Manhattan Area Amateur Radio Society (MAARS) has welcomed us to use their 147.255+ repeater while we're there. It should be quite suitable for talk-in and so forth during our stay.

Today's wind profile forecast has not changed much above 20,000 ft, but is lighter out of the south below that. I think that may be the biggest variable for us in the forecast (at least as long as the next upper-level low stays far enough west). The prediction today is 354 degrees at 13 miles, which from Herington is 8 miles south of Junction City and in a good area. From the Manhattan site, the landing would be in a small area between Ft Riley and Tuttle Creek Lake.

73 de Mark N9XTN

113. I'm in Kansas

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-01 14:50:29 UTC
From: pverhage1960
Topic: 113 Message: 113

Okay, I'm here and have some email access. If we have to move the launch site, I'm going to have problems with the helium. Adding Don's request, I have nine tanks of helium to deal with. My little Prizm would have a hard time moving a single tank.

I'll need some help here. Actually, a lot of help.

I'm heading to Topeka to line up some media coverage. I'll spend the next two days at the campus checking out equipment and making copies. I'll also make reservations for meals.

If we can avoid moving the launch site, that would be helpful from my end. If we have to move, we need to make plans for moving 9 tanks of helium to the site and helping me get them back to Linweld afterwards.

Paul

114. Monday update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-01 15:09:08 UTC
From: Mark Conner
Topic: 114 Message: 114

The landing forecast is becoming somewhat more favorable for a Herington launch. Using last night's MRF winds and replacing the forecast above 60,000 ft with real winds from Topeka, I get a landing of 323 degrees at 15 miles. This is about 8 miles south of exit 286 on I-80 and 15 miles SW of Junction City.

Again, this is with a burst of 95,000 ft. Using 75,000 ft for a burst altitude moves the landing to due north at 12 miles.

Don KA0JLF is working on a contact at the Herington airport. Hope to hear soon on whether we can use it.

- Mark

Wind data below:

2749,179,17
5161,193,17
10548,189,11
19482,193,7
25118,206,7
32005,230,3
36135,262,6
40968,271,7
46860,276,7
54797,59,3
61679,95,15
65141,76,13
68536,100,17
71167,91,19
79133,95,25
83008,97,23
87762,90,19
91210,82,23
93907,85,24
98795,90,24
102821,95,25
104445,95,25
107562,95,25

115. Re: [GPSL] I'm in Kansas

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-01 16:39:39 UTC
From: Don Pfister
Topic: 113 Message: 115

Paul, do you still want me to come out and help pick up and move the helium? I can bring my own helium, Mike KD0FW has offered to haul it out there for me, so don't worry about that tank.

As I recall we last left it, I was coming out on the 3rd to help pick up helium and take it to JNSC. I might be able to bring another body with me. I don't really have a good vehicle to move it with, but can get it done. My little car should be able to carry two tanks at a time.

Is there a Uhaul there (I think I remember one) where we could rent a pickup for $19 (that's what I seen on the sides of them here)? That might make it easier. That would make the helium about $2.50 more per tank. I don't know anyone out there with a pickup, myself.

Anyway, I'm waiting to help, just let me know what you need me to do.

AT this point I have 5 people committed for the launch, so we should be ok. There are 3 confirmed for the symposium - Cris took a day of vacation I didn't know about - possibly the 4th person will also make the symposium. I'll let you know.

Later,
Don

pverhage1960 wrote:

> Okay, I'm here and have some email access. If we have to move the
> launch site, I'm going to have problems with the helium. Adding Don's
> request, I have nine tanks of helium to deal with. My little Prizm
> would have a hard time moving a single tank.
>
> I'll need some help here. Actually, a lot of help.
>
> I'm heading to Topeka to line up some media coverage. I'll spend the
> next two days at the campus checking out equipment and making copies.
> I'll also make reservations for meals.
>
> If we can avoid moving the launch site, that would be helpful from my
> end. If we have to move, we need to make plans for moving 9 tanks of
> helium to the site and helping me get them back to Linweld afterwards.
>
> Paul

116. Re: [GPSL] Monday update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-01 16:46:59 UTC
From: Don Pfister
Topic: 114 Message: 116

I left a voice mail, will keep trying.

Thanks for the 75,000 prediction. I will be flying a 600/300 gram so that is about as high as I expect to get, maybe a little higher if all goes well.

Don

Mark Conner wrote:

> Don KA0JLF is working on a contact at the Herington airport. Hope to
> hear soon on whether we can use it.
>
> - Mark

117. Helium and Don's Help

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-01 16:58:34 UTC
From: pverhage1960
Topic: 117 Message: 117

Don, I'll check my cell phone when I get home. Please leave a phone number and I'll call you tonight. Let's plan on Wednesday to get the helium.

I'll need a specific location that we'll launch from. I can't store the helium at my folks place. Where ever we launch from, we need to be able to store helium there, or someone needs to be able to carry all 9 tanks until then. One possibility is to hand tanks of helium to each team at the symposium, or possibly have us all pick up our tanks that day from Linweld (time constraints here).

You'd think these tanks would be lighter with all that helium in them....

This still leaves the issue of how I'm going to get the tanks back to Linweld on Monday. Linweld is open until noon on Saturday, perhaps we can have someone haul tanks after the launch.

Paul

118. Approval to use Herington airport for launch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 01:35:14 UTC
From: Mark Conner
Topic: 118 Message: 118

Received the following from Don KA0JLF (HABITAT/SkyLab):

I just talked to Harold about the Herrington Airport. We can use
it if we want.
Unfortunately the hanger available is not all that big. The
ceiling is about 12' and
the door is 10' high. Does this seem workable? He also said we
could use the areas
around the runway.

It holds 3 planes, two spaces are empty and will be available to
us as long as no
planes come in that need the space. This would be if there were a
storm or
something. Possibly the 3rd plane will be out too, unknown at
this time.

I told him, Paul and I might run down to check it out after we
get the helium taken
care of Wednesday.

Don is planning to take digital pics on Wednesday so we can see
what it's like at the symposium.

Here are some links showing the airport's location:
http://www.mapblast.com/myblast/map.mb?CT=38.7018%3A-96.815%3A200
00&myzoom.x=144&myzoom.y=13
http://www.airnav.com/airport/HRU
http://terraserver.homeadvisor.msn.com/image.asp?S=13&T=1&X=431&Y
=2678&Z=14&W=1

73 de Mark N9XTN

119. Time slot rundown

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 02:45:44 UTC
From: Mark Conner
Topic: 119 Message: 119

Here's what I have for everyone's slot information. Let me know if something's not correct.

KD0FW: Using DF for recovery

Traveler: Not time-slotted, interval is quasi-random. Zack, what's the approximate interval?

HABITAT: Will be using a MIM on 144.34, fixed time interval set to 65 seconds. Interval to be tested.

ANSR: Repeater can periodically QSY to 144.34 if repeater not in use. Mike, you can have the time slot from :24 to :35 (previously for HABITAT) for this if you wish - let me know what you decide.

TVNSP: GPGGA, GPRMC, GPGSV, and BS2 output from :00 to :11

WB8ELK: APRS data from :12 to :23

NSTAR: APRS posits containing lat/lon/course/speed/alt/vertical velocity and a telemetry frame from :36 to :47

EOSS: GPRMC; GPGGA, GPGSA from :48 to :59

I think we'd prefer there not be any ground APRS transmissions on 144.34 until all the balloons are on the ground - we'll have a busy frequency as it is! Looks like ~13 packets every minute. Updated table at http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm .

See you all in Manhattan on Friday.

73 de Mark N9XTN

120. AV Equipment for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 05:37:19 UTC
From: kd7lmo
Topic: 120 Message: 120

Does anyone have a firm list of AV equipment for the presentations? Will we have an LCD projector? VCR? laptop connection for a projector?

Also, thanks to all those helping to get everything organized. Looks like it will be a good conference. Hope we get a good turn out.

121. Re: [GPSL] AV Equipment for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 12:00:08 UTC
From: Ralph Wallio, W0RPK
Topic: 120 Message: 121

Paul is in Manhattan but might not be reading GPSL traffic. He recently confirmed that we will have a PC and projector and it is reasonable to assume the required VGA connection could be moved over to another laptop PC. Paul had previously arranged for a VCR and it is reasonable to assume it could feed video to the projector.

-w0rpk

----- Original Message -----
From: "kd7lmo" <mgray@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, July 02, 2002 0:37 AM
Subject: [GPSL] AV Equipment for GPSL

> Does anyone have a firm list of AV equipment for the presentations?
> Will we have an LCD projector? VCR? laptop connection for a
> projector?
>
> Also, thanks to all those helping to get everything organized. Looks
> like it will be a good conference. Hope we get a good turn out.

122. Re: [GPSL] Time slot rundown

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 12:21:55 UTC
From: Zack Clobes
Topic: 119 Message: 122

about 45 seconds
----- Original Message -----
From: Mark Conner
To: GPSL List
Sent: Monday, July 01, 2002 9:45 PM
Subject: [GPSL] Time slot rundown

Here's what I have for everyone's slot information. Let me know
if something's not correct.

KD0FW: Using DF for recovery

Traveler: Not time-slotted, interval is quasi-random. Zack,
what's the approximate interval?

HABITAT: Will be using a MIM on 144.34, fixed time interval set
to 65 seconds. Interval to be tested.

ANSR: Repeater can periodically QSY to 144.34 if repeater not in
use. Mike, you can have the time slot from :24 to :35
(previously for HABITAT) for this if you wish - let me know what
you decide.

TVNSP: GPGGA, GPRMC, GPGSV, and BS2 output from :00 to :11

WB8ELK: APRS data from :12 to :23

NSTAR: APRS posits containing lat/lon/course/speed/alt/vertical
velocity and a telemetry frame from :36 to :47

EOSS: GPRMC; GPGGA, GPGSA from :48 to :59

I think we'd prefer there not be any ground APRS transmissions on
144.34 until all the balloons are on the ground - we'll have a
busy frequency as it is! Looks like ~13 packets every minute.
Updated table at
http://members.cox.net/n9xtn/gpsl_2002_freq_coordination.htm .

See you all in Manhattan on Friday.

73 de Mark N9XTN

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123. GPSL forecast update, 2 Jul

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 13:48:37 UTC
From: Mark Conner
Topic: 123 Message: 123

Today's MRF run shows lighter winds yet. A 95,000 ft burst shows a landing at 306 degrees at 11 miles. For 75,000', it's due north at 7 miles. Both locations are generally favorable if Herington is used for launch, unfavorable if the Johnson Near Space Center is.

73 de Mark N9XTN

124. AV at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 15:53:14 UTC
From: pverhage1960
Topic: 124 Message: 124

I'll be looking at the AV eqiupment today. But I've been told there is a LCD projector that can be hooked up to a VCR (provided) or a laptop (we need to bring our own laptops). I have my laptop with me and plan to try it out later today or tomorrow.

Paul

125. Don and Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 16:41:55 UTC
From: pverhage1960
Topic: 125 Message: 125

Don, I didn't have a phone message from you on my cell phone. Please call (208) 631-7162 and let me know how to contact you. Can we drop off helium at Herington on Wednesday?

I'll check email again later today and early tomorrow.

Paul

126. Herington 2m repeater

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 18:04:17 UTC
From: Mark Conner
Topic: 126 Message: 126

According to the various listings, Herington has a repeater at 385' AGL on 147.135+. Some listings indicate a PL tone of 88.5 Hz. If we get out of simplex range of each other and aren't into the Manhattan 147.255+ repeater well, we can QSY there to coordinate before launch and after landing.

Would each team prefer their own simplex frequency and use the 2m repeater only for inter-team comm, or would you prefer a common channel for all teams? I personally would like to stay on 70cm for voice while the balloons are in the air so that I don't desense 2m data reception. However, ANSR uses 70cm for data and may want 2m for voice.

We can do this by e-mail now, or maybe have a session before we break for the day to come up with a chase team comm plan.

- Mark

127. Re: Herington 2m repeater

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 19:03:53 UTC
From: pverhage1960
Topic: 126 Message: 127

I'd prefer a single 70 cm frequency for all chase crews, 446.520.

Paul

--- In GPSL@y..., "Mark Conner" <n9xtn@c...> wrote:
> According to the various listings, Herington has a repeater at 385'
AGL
> on 147.135+. Some listings indicate a PL tone of 88.5 Hz. If we
get
> out of simplex range of each other and aren't into the Manhattan
> 147.255+ repeater well, we can QSY there to coordinate before launch
> and after landing.
>
> Would each team prefer their own simplex frequency and use the 2m
> repeater only for inter-team comm, or would you prefer a common
channel
> for all teams? I personally would like to stay on 70cm for voice
while
> the balloons are in the air so that I don't desense 2m data
reception.
> However, ANSR uses 70cm for data and may want 2m for voice.
>
> We can do this by e-mail now, or maybe have a session before we
break
> for the day to come up with a chase team comm plan.
>
> - Mark

128. Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 19:04:53 UTC
From: pverhage1960
Topic: 128 Message: 128

I need to know ASAP if we're going to launch out of Herington. Don, I also need to know ASAP if we can lock helium tanks up at the airport.

Please give me a call.

129. Reservations and Parking

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 19:07:23 UTC
From: pverhage1960
Topic: 129 Message: 129

Sirloin Stockade has us down for dinner. The Gold Fork doesn't accept reservations, but they made a note to themselves to expect up to 30 people for lunch. They'll try to put us all in the same corner.

The visitor booth at the front of the campus opens at 8:00 AM. A one day visitor's parking pass is free. Be sure to ask for one when you get to the campus.

I'll be testing my laptop on the library's AV cart in about 30 minutes.

Paul

130. AV Equipment

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 20:48:34 UTC
From: pverhage1960
Topic: 72 Message: 130

Okay, folks, I just checked everything out. The AV cart has a VCR and PC. There is a 3.5" floppy disk drive and a DVD drive in the PC. I was able to connect my laptop to the cart and project the presentation stored on my laptop. I also ran my presentation from the PC off of my floppy. Powerpoint 2000 is installed on the PC. The PC also has an internet connection, but you must use Internet Explorer, not Netscape. I also switched in the VCR without a problem.

The overhead projector wasn't in the room, so my Mother reserved it for Friday.

131. Dinner 4 July?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 20:50:17 UTC
From: pverhage1960
Topic: 131 Message: 131

I'm in the area. Anyone who plans to be here on the 4th, do you have plans for dinner? Call me at (208) 631-7162 and leave a message. Perhaps several of us can get together. I'll try getting on the MAARS repeater this evening, but don't rely on finding me there.

Paul

132. July 4th Contact

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 20:51:11 UTC
From: pverhage1960
Topic: 132 Message: 132

I will have no access to the internet on July 4th. If anyone needs to contact me, please give me a call.

Paul

133. Re: [GPSL] Dinner 4 July?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 21:15:40 UTC
From: mgray@ess-us.com
Topic: 131 Message: 133

Paul and others,

I plan to arrive mid afternoon on the 4th, so I will attempt to contact
you when I arrive. I will bring your number as well as try the
local repeater.

Michael Gray, ANSR - kd7lmo

From sentto-6764416-130-1025643020-mgray=ess-us.com@... Tue Jul 2 13:50:55 2002
X-eGroups-Return: sentto-6764416-130-1025643020-mgray=ess-us.com@...
X-Sender: paul.verhage@...
X-Apparently-To: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com
User-Agent: eGroups-EW/0.82
X-Mailer: Yahoo Groups Message Poster
From: "pverhage1960" <paul.verhage@...>
X-Originating-IP: 129.130.38.120
X-Yahoo-Profile: pverhage1960
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Tue, 02 Jul 2002 20:50:17 -0000
Subject: [GPSL] Dinner 4 July?
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I'm in the area. Anyone who plans to be here on the 4th, do you have
plans for dinner? Call me at (208) 631-7162 and leave a message.
Perhaps several of us can get together. I'll try getting on the MAARS
repeater this evening, but don't rely on finding me there.

Paul

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

134. Re: [GPSL] Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 21:29:29 UTC
From: Don Pfister
Topic: 128 Message: 134

Mark, I guess it is your call if we move launch sites. I didnt' think we would decide until later, possibly Friday. I guess Paul needs to know now. I'll check on the locked area. I had thought we would store them at JNSC.

I'll try to get Paul and answer and call him.

Don

pverhage1960 wrote:

> I need to know ASAP if we're going to launch out of Herington. Don, I
> also need to know ASAP if we can lock helium tanks up at the airport.
>
> Please give me a call.

135. Re: Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 21:37:53 UTC
From: pverhage1960
Topic: 128 Message: 135

If anyone needs to send email to me, do it through the GPSL group. I don't have access to my campus email.

Paul

136. Re: [GPSL] Re: Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 21:50:50 UTC
From: Don Pfister
Topic: 128 Message: 136

Yes we can lock up the helium tanks at the airport.

pverhage1960 wrote:

> If anyone needs to send email to me, do it through the GPSL group. I
> don't have access to my campus email.
>
> Paul

137. Re: Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 21:53:38 UTC
From: pverhage1960
Topic: 128 Message: 137

Great! Don, when do you want to meet me in Manhattan. And where?
Paul

> Yes we can lock up the helium tanks at the airport.
>
> pverhage1960 wrote:
>
> > If anyone needs to send email to me, do it through the GPSL group.
I
> > don't have access to my campus email.
> >
> > Paul

138. ANSR participation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 22:36:14 UTC
From: Mark Conner
Topic: 138 Message: 138

Received the following from ANSR:

==========
Mark,

Since I will be the only ANSR guy attending, I don't think I can launch a balloon by myself. I will bring our Payload Computer (cross band repeater/tracking system) and Micro Beacon in case we want to fly them on another balloon train. I'll also have equipment to track and recover if necessary. If nothing else, I can help with the launch on Saturday morning.

Michael Gray, ANSR - kd7lmo

==========

See www.ansr.org - does any group have weight to spare and interested in flying one of the ANSR payloads?

73 de Mark N9XTN

139. Arrival

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 22:31:54 UTC
From: Harry M
Topic: 139 Message: 139

Hi all!
This is Harry in Tulsa.
We will be arriving from Tulsa Friday, hopefully in time for lunch, and plan on attending the dinner also. We will be staying at the Super-8 in Manhattan. We would like to get involved with one of the crews so if anyone needs some extra help we will be available to do whatever needs done.

Harry Mueller - KC5TRB
and
Dave Smith - KD5OIJ

140. Re: [GPSL] ANSR participation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 22:38:49 UTC
From: mgray@ess-us.com
Topic: 138 Message: 140

We have a 3 pound Payload Computer that has a cross band repeater,
flight data recorder, and DTMF commanding. We also have a 1 pound
APRS beacon. I can also help out with T & R or just help with the
launch day activities.

Information on our Payloads is at http://www.kd7lmo.net

From sentto-6764416-137-1025649378-mgray=ess-us.com@... Tue Jul 2 15:36:51 2002
X-eGroups-Return: sentto-6764416-137-1025649378-mgray=ess-us.com@...
X-Sender: mconner@...
X-Apparently-To: gpsl@yahoogroups.com
To: gpsl@yahoogroups.com
X-Mailer: Netscape Webmail
Content-Language: en
X-Accept-Language: en
X-eGroups-From: "Mark Conner" <mconner@...>
From: "Mark Conner" <n9xtn@...>
X-Yahoo-Profile: n9xtn
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Tue, 02 Jul 2002 17:36:14 -0500
Subject: [GPSL] ANSR participation at GPSL
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Received the following from ANSR:

==========
Mark,

Since I will be the only ANSR guy attending, I don't think I can
launch a balloon by myself. I will bring our Payload Computer
(cross band repeater/tracking system) and Micro Beacon in case we
want to fly them on another balloon train. I'll also have equipment
to track and recover if necessary. If nothing else, I can help with
the launch on Saturday morning.

Michael Gray, ANSR - kd7lmo

==========

See www.ansr.org - does any group have weight to spare and interested
in flying one of the ANSR payloads?

73 de Mark N9XTN

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

141. Re: [GPSL] Re: Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 23:00:52 UTC
From: Don Pfister
Topic: 128 Message: 141

I had asked you that several emails ago. HOWEVER, I think I sent them to you not the list. It will take me a couple hours to drive out there. What time did you have in mind?

pverhage1960 wrote:

> Great! Don, when do you want to meet me in Manhattan. And where?
> Paul
>
> > Yes we can lock up the helium tanks at the airport.
> >
> > pverhage1960 wrote:
> >
> > > If anyone needs to send email to me, do it through the GPSL group.
> I
> > > don't have access to my campus email.
> > >
> > > Paul
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

142. Re: [GPSL] Arrival

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 23:05:11 UTC
From: Don Pfister
Topic: 139 Message: 142

Hi Harry, if you hear KD5SFW in Tulsa tell her "her dad says HI". I'm not sure how active she is but she just got her license back in May. I think she has only talked to her mom and I.

I look forward to meeting you.

73 de Don KA0JLF
HABITAT SkyLab

Harry M wrote:

> Hi all!
> This is Harry in Tulsa.
> We will be arriving from Tulsa Friday, hopefully in time for lunch, and plan
> on attending the dinner also. We will be staying at the Super-8 in
> Manhattan. We would like to get involved with one of the crews so if anyone
> needs some extra help we will be available to do whatever needs done.
>
> Harry Mueller - KC5TRB
> and
> Dave Smith - KD5OIJ

143. Re: [GPSL] ANSR participation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-02 23:07:08 UTC
From: Don Pfister
Topic: 138 Message: 143

Michael, I would suggest you bring your stuff. I have at least 5 members coming with my group. I think we will be ok. Our members can assist you. "Never give up! - Never surrender!" (I love that movie).

73 de Don
HABITAT SkyLab

Mark Conner wrote:

> Received the following from ANSR:
>
> ==========
> Mark,
>
> Since I will be the only ANSR guy attending, I don't think I can
> launch a balloon by myself. I will bring our Payload Computer
> (cross band repeater/tracking system) and Micro Beacon in case we
> want to fly them on another balloon train. I'll also have equipment
> to track and recover if necessary. If nothing else, I can help with
> the launch on Saturday morning.
>
> Michael Gray, ANSR - kd7lmo
>
> ==========
>
> See www.ansr.org - does any group have weight to spare and interested
> in flying one of the ANSR payloads?
>
> 73 de Mark N9XTN
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

144. Re: [GPSL] ANSR participation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 00:26:48 UTC
From: Don Pfister
Topic: 138 Message: 144

I just talked to Paul on the cell phones. Michael, Paul said the same thing I did - there will be plenty of people to help, please bring your balloon and launch with us. Michael, please don't put off launching because you are the only one from your group. I know we can round up help for you. If you want a navigator or driver to help you chase I'm sure we can handle that too.

Paul also said we will launch from Herington. He and I will take the helium tanks there tomorrow and lock them in the hanger.

Mark, Paul tried to contact you but I forget what he wanted me to tell you. ;-) Senior life is great! (I think it was the above)

Paul will check email tomorrow after we pickup (possibly) deliver the helium.

More to follow! ;-)

73 all de Don

Mark Conner wrote:

> Received the following from ANSR:
>
> ==========
> Mark,
>
> Since I will be the only ANSR guy attending, I don't think I can
> launch a balloon by myself. I will bring our Payload Computer
> (cross band repeater/tracking system) and Micro Beacon in case we
> want to fly them on another balloon train. I'll also have equipment
> to track and recover if necessary. If nothing else, I can help with
> the launch on Saturday morning.
>
> Michael Gray, ANSR - kd7lmo
>
> ==========
>
> See www.ansr.org - does any group have weight to spare and interested
> in flying one of the ANSR payloads?
>
> 73 de Mark N9XTN
>

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab soon to add SeaLab (underwater robotics)

(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

145. Direction finding?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 00:09:38 UTC
From: Michael L. Bogard
Topic: 145 Message: 145

I will be launching a balloon and tracking it the old way no APRS. If there is anyone that would like to help me chase it please let me know. Thanks Mike KD0FW

146. Herington airport will be the launch site

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 01:26:13 UTC
From: Mark Conner
Topic: 146 Message: 146

Spoke with Don and Paul this evening. Herington airport will definitely be the launch site for Saturday.

Paul also wanted me to make sure everyone knows that you *will* need a free one-day permit to park in the lot marked on Ralph's web page. For those of you who haven't been on a college campus in a while, be assured that they will very likely check for permits. You can get one at the info kiosk after 8am on Friday.

For EOSS and ANSR: Please bring all your stuff! We should have enough hands to get all 8 airborne, and should have enough chasers to get everyone recovered. We should have plenty of fill devices for the balloons, and we can launch in two groups if necessary.

Since we're not launching at the JNSC, Paul is looking at moving the dinner earlier to 6pm. We'll probably have a final session at the library to finalize our frequencies and payload manifests.

The PC at the library has PowerPoint on it, and the DVD-ROM in it should read CDs. The VCR also switches through the LCD projector as well as the PC. Nice comfy chairs, and tables at the back of the room for exhibiting payloads if you want.

73 de Mark N9XTN

147. ANSR Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 03:12:48 UTC
From: kd7lmo
Topic: 147 Message: 147

ANSR has decided not to launch our payloads at the GPSL. After conferring with other ANSR members, we decided it would be best not to launch. The ANSR-8 flight is only a couple weeks away and it wouldn't give us enough time to prepare for that flight if something went wrong at GPSL. We all know how Mr. Murphy likes to visit.

However, we will still make our presentation at the conference as well as display our payload packages. I will also attend the launch to help in any way I can.

I am certain ANSR will be able to fly on a future GPSL.

73s de Michael Gray, KD7LMO

148. Kansas repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 03:30:36 UTC
From: Larry Cerney
Topic: 148 Message: 148
Attachments: 1 described; binary payloads are missing from this source WARC

Hello all;

I've put together a list of the repeaters along I-70 West of Manhattan, KS. I'm getting ready to program in the freqs to flip through on the way out and back. Thought it might be of some interest to others.

Question to our friends in Kansas, the 2000 ARRL repeater directory shows the Manhattan MAARS repeater to be 147.250 + and some of the emails have shown 147.255 +. What is the repeater freq?

Kansas Repeaters
West to East
Goodland 147.030 + WA0GBN Open
Colby 146.820 - W0WOB Open Wide
Colby 444.650 + W0WOB Open
WaKeeney 444.770 + N0FBS Open
Hays 146.790 - N0IGX Open
Hays 147.180 + KB0RZA Open Wide
Hays 443.600 + KD5WY Open Wide 107.2 PL
Russell 147.280 + KB0QGX Open Wide
Russell 444.950 N0KOU Open Wide Input 448.950
Salina 145.430 - N0KSC Open Wide
Salina 146.730 - N0KSC Open Wide
Salina 146.910 - K0KSC Open
Salina 147.030 + W0CY Open Wide
Salina 442.200 + N0KSC Open
Salina 443.900 + W0CY Open
Salina 444.500 + N0SGL Open Wide
Abilene 145.330 - NU0S Open Wide
Junction City 146.880 - N0UZT Open Wide
Junction City 147.300 + W0CWJ Open
Junction City 442.050 + KF0HS Open
Manhattan 145.410 - W0QQQ Open
Manhattan 147.250 + N0TOK Open Wide
Manhattan 444.170 + W0QQQ Open

Thanks...
73....
Larry
K0ANI

"The ideas that have lighted my way, and time after time have given me new courage to face life cheerfully, have been Kindness, Beauty and Truth."

Albert Einstein

149. Re: [GPSL] Kansas repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 03:48:19 UTC
From: Mark Conner
Topic: 148 Message: 149

The MAARS web site and the majority of the Google references show 147.255+ as the repeater frequency.

http://www.geocities.com/Heartland/Hills/1173/repeater.html

Don and Paul can give us a coverage report tomorrow.

Thanks for researching the list. On your way east, can you try out Herington 147.135+ (maybe 88.5 Hz tone)? If you can hit it from I-70 it should be good for the chase.

- Mark

----- Original Message -----
From: "Larry Cerney" <lcerney@...>
To: <EOSS@yahoogroups.com>; <GPSL@yahoogroups.com>
Sent: Tuesday, July 02, 2002 22:30
Subject: [GPSL] Kansas repeaters

> Hello all;
>
> I've put together a list of the repeaters along I-70 West of Manhattan, KS.
> I'm getting ready to program in the freqs to flip through on the way out and
> back. Thought it might be of some interest to others.
>
> Question to our friends in Kansas, the 2000 ARRL repeater directory shows
> the Manhattan MAARS repeater to be 147.250 + and some of the emails have
> shown 147.255 +. What is the repeater freq?
>

150. Re: [GPSL] Kansas repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 04:06:43 UTC
From: Don Pfister
Topic: 148 Message: 150

Will do.

Mark Conner wrote:

> The MAARS web site and the majority of the Google references show
> 147.255+ as the repeater frequency.
>
> http://www.geocities.com/Heartland/Hills/1173/repeater.html
>
> Don and Paul can give us a coverage report tomorrow.
>
> Thanks for researching the list. On your way east, can you try
> out Herington 147.135+ (maybe 88.5 Hz tone)? If you can hit it
> from I-70 it should be good for the chase.
>
> - Mark
>
> ----- Original Message -----
> From: "Larry Cerney" <lcerney@...>
> To: <EOSS@yahoogroups.com>; <GPSL@yahoogroups.com>
> Sent: Tuesday, July 02, 2002 22:30
> Subject: [GPSL] Kansas repeaters
>
> > Hello all;
> >
> > I've put together a list of the repeaters along I-70 West of
> Manhattan, KS.
> > I'm getting ready to program in the freqs to flip through on
> the way out and
> > back. Thought it might be of some interest to others.
> >
> > Question to our friends in Kansas, the 2000 ARRL repeater
> directory shows
> > the Manhattan MAARS repeater to be 147.250 + and some of the
> emails have
> > shown 147.255 +. What is the repeater freq?
> >

151. Forecast update, 2 Jul #2

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 04:58:41 UTC
From: Mark Conner
Topic: 151 Message: 151

The Eta and AVN now cover the launch time. Unfortunately, the Eta indicates a more unidirectional wind profile and a bit stronger one.

For a 95,000 ft burst, the landing is 352 degrees at 19 miles. This is not far where US77 crosses the Kansas River and is only a mile or two south of Junction City. For a 75,000 ft burst, the landing is at 014 degrees at 20 miles, which is comfortably south of I-70.

If this continues, I plan to switch NSTAR to a 600 or a 350g balloon (have one each of 800, 600, and 350) to get a lower burst altitude and move the landing east, and really gassing the balloon up to shorten the trip.

The AVN model, on the other hand, is more consistent with the previous MRF predictions (297 at 9 miles for 95kft and 355 at 5 miles for 75 kft). It should be consistent, however, as it has the same physics.

In my experience, the Eta is better at the lower levels and the AVN is better higher up. What I did was come up with a hybrid wind profile using the Eta below 20,000 ft, the AVN from 20 to 60 kft, and the latest Topeka sounding data above 60 kft. Doing this gave landings to the NNW and NNE at 10-12 miles in both cases.

Still time for things to change. The wind profile I used is below.

- Mark

1237,156,6
1240,161,7
1988,194,23
2766,206,26
3556,206,25
4364,206,23
5190,207,21
6030,207,21
6893,206,21
7776,206,19
8678,206,17
9606,195,11
10561,174,11
12552,194,17
14685,207,17

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16962,215,17
19419,220,15
25066,186,7
31962,266,6
36106,292,9
40945,300,9
46834,337,7
54800,60,7
60311,81,11
61712,95,10
62910,92,10
63533,91,11
65200,87,11
67404,83,12
68602,80,12
70328,78,16
76597,90,17
79199,90,18
84812,77,17
87795,85,17
92611,64,17
94025,62,19
97178,66,23
100885,72,27
103018,75,29
105367,75,29
109501,75,29
```

152. Re: [GPSL] AV Equipment for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 05:33:59 UTC
From: wb8elk@aol.com
Topic: 120 Message: 152

I have some slides I'd like to show if possible....is there a Carousel style slide projector available at the university or could someone bring one?

Also, since I've been working 80 hour weeks with no end in sight....I might not make it until after noon on the 5th, so please schedule me in the afternoon for my talk.

See you all soon,

- Bill WB8ELK

153. Re: [GPSL] Kansas repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 11:09:14 UTC
From: Don Pfister
Topic: 148 Message: 153

Paul, if you check email, I'm on my way. I'll try to monitor this repeater in Manhattan (147.255+) and call you on it. Knowing you and radio I will expect to call you on your cell phone. ;-) I should see you at the designated spot around 9 a.m.

73 de Don in route.

Mark, I'll take my new repeater directory and see how the list checks out. I hope to run mobile APRS.

Don Pfister wrote:

> Will do.
>
> Mark Conner wrote:
>
> > The MAARS web site and the majority of the Google references show
> > 147.255+ as the repeater frequency.
> >
> > http://www.geocities.com/Heartland/Hills/1173/repeater.html
> >
> > Don and Paul can give us a coverage report tomorrow.
> >
> > Thanks for researching the list. On your way east, can you try
> > out Herington 147.135+ (maybe 88.5 Hz tone)? If you can hit it
> > from I-70 it should be good for the chase.
> >
> > - Mark
> >
> > ----- Original Message -----
> > From: "Larry Cerney" <lcerney@...>
> > To: <EOSS@yahoogroups.com>; <GPSL@yahoogroups.com>
> > Sent: Tuesday, July 02, 2002 22:30
> > Subject: [GPSL] Kansas repeaters
> >
> > > Hello all;
> > >
> > > I've put together a list of the repeaters along I-70 West of
> > Manhattan, KS.
> > > I'm getting ready to program in the freqs to flip through on
> > the way out and
> > > back. Thought it might be of some interest to others.
> > >
> > > Question to our friends in Kansas, the 2000 ARRL repeater
> > directory shows
> > > the Manhattan MAARS repeater to be 147.250 + and some of the

> > emails have
> > > shown 147.255 +. What is the repeater freq?
> > >

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being
built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

154. Fw: SF Gate: Up, up and away/A man and his lawn chair take flight

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 18:38:59 UTC
From: Mark Conner
Topic: 154 Message: 154

Here's our featured speaker for next year's GPSL!

73 de Mark N9XTN

This article was sent to you by someone who found it on SF Gate.
The original article can be found on SFGate.com here:
http://www.sfgate.com/cgi-bin/article.cgi?file=/c/a/2002/07/03/BA150175.DTL

Wednesday, July 3, 2002 (SF Chronicle)
Up, up and away/A man and his lawn chair take flight
Steve Rubenstein, Chronicle Staff Writer

San Francisco -- Something important was proved Tuesday in San Francisco when a young man strapped himself into a lawn chair tied to a strand of flimsy balloons and floated 50 feet above Potrero Hill.
It was not a stunt, said the man in the chair. It was a scientific experiment.
No one knew exactly what was proved, however. Perhaps it was that latex can burst under pressure, a concept already well known in San Francisco.
The idea, if there was one, was to recreate the 1982 flight of "Lawn Chair Larry" Walters, the Los Angeles truck driver who flew a similar rig 16,000
feet into the sky above Southern California and lived to tell about it. An Australian TV company had commissioned the joyride for an upcoming special
on urban legends.
"Nothing can go wrong," said stuntman Adam Savage, preparing to go aloft, while a large number of things that could not go wrong kept going wrong.
The latex balloons, purchased for $10 apiece from a surplus store, had an unsettling knack of bursting during inflation. At least six of them popped
before Savage had even taken his place in the chair.
Then the balloons turned out to need twice as much helium to fill as Savage originally calculated, and extra gas cylinders had to be scrounged.
Then, with only minutes before lift-off, the batteries on the emergency walkie-talkies went out.
"I need some triple-A batteries!" the balloonist yelled.
"Somebody go check the deli! Maybe they have some!"

Meanwhile, more balloons popped.
"It's not making me nervous," Savage said, nervously, as the latex shards drifted to earth. "I suppose these balloons have outlived their shelf
life. That's why they were only $10 each."
After a quick review of the flight plan with the TV producer ("You go up, then you come down"), Savage climbed into the lawn chair ($29 from Sears),
strapped on his safety harness (borrowed from a Mission District climbing gym) and gazed up at his towering string of balloons, which resembled a
strand of giant Vidalia onions glistening in the morning sun.
Shortly before 9 a.m., helpers began removing sandbags and releasing their hold on three ropes tethering the chair to parked cars. Savage, not quite sure how to control the proceedings, began to rise slowly into the sky and drift gently over Missouri Street, like the Wizard of Oz making his
getaway.
The TV crew said Savage had soared to a height of 100 feet, but less partial observers placed the altitude at about half that. The walkie-talkie failure was never a factor, as air-to-ground communication was conducted largely by shouting.
The greatest humiliation occurred midway into the flight, when Savage downed a beer and, after warning observers below to stand clear, dropped the bottle over the side. The bottle failed to break on impact, clearly indicating to all the
less-than-life-threatening height of Savage's lawn chair.
"Better have another beer!" someone yelled.
Meanwhile, a modest crowd of gawkers gathered on Missouri Street to take in the spectacle, such as it was. Dogs barked, drivers honked and
passers-by giggled.
After 12 minutes aloft, the TV cameraman had recorded sufficient footage, and there was no good reason for the flight to continue. One by one,
Savage fired a BB gun at the balloons and the chair descended, as Sir Isaac predicted it would.
Back on the ground, Savage reached for a celebratory cigar and basked in what accolades there were. He said it had been eerie to ride his lawn
chair on the same day that balloonist Steve Fosset completed his round-the-world solo flight, although that comparison seemed more of a
stretch than anything that happened to the latex.
"I'm just glad it turned out OK," said Ed Wallace, manager of the electrical warehouse next door whose airspace Savage had drifted into. "It
didn't make any sense at all. He said he had the whole thing worked out perfectly, but it didn't look that way. The potential for him getting hurt

was pretty good."

E-mail Steve Rubenstein at srubenstein@....

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155. Forecast update, 3 Jul

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 19:06:54 UTC
From: Mark Conner
Topic: 155 Message: 155

The two model solutions (Eta and AVN) are coming closer together, and are showing less risk of getting close to Junction City.

AVN - 95kft burst = 323 deg at 10 miles
AVN - 75kft burst = 020 deg at 10 miles
Eta - 95 kft burst = 325 deg at 15 miles
Eta - 75kft burst = 005 deg at 13 miles

All are favorable landing sites.

Weather for Saturday looks decent but hot. Temps at sunrise will be in the low 70s, and probably will reach the low 90s by afternoon. Dew points will be in the 60s, making it humid. While we shouldn't have the x-country hikes our Western brethern do, bringing some drinks is still recommended. Skies should be relatively clear at the start of the day, but cumulus clouds should form after mid-morning.

The Herington repeater is down for maintenance at the moment, however, the owner (WV0S) expects to have it back on the air Thursday or Friday. I'll get an update when it's back on line.

Is there anyone who can bring a video camera to tape the symposium and launch?

Graphics will be posted soon to http://members.cox.net/n9xtn/gpsl-2002-forecast.gif. SA9 file at http://members.cox.net/n9xtn/gpsl-2002-forecast.sa9 .

73 de Mark N9XTN

156. Wind data for 3 Jul 1200Z Eta

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 19:15:02 UTC
From: Mark Conner
Topic: 156 Message: 156

```
981,144,6
2005,190,21
2782,193,21
3573,193,19
4380,192,17
5207,191,13
6050,190,11
6913,191,11
7795,189,9
8701,180,9
9626,168,9
10584,169,11
12572,182,15
14692,185,9
16975,205,13
19439,215,15
22110,209,15
25033,201,13
28268,213,11
31893,254,7
36020,272,7
40833,249,9
46732,262,3
54829,55,7
65419,75,18
68471,110,25
71620,113,22
77122,50,12
79101,55,19
83746,82,27
85574,93,30
87598,95,31
89835,95,25
92375,74,22
95308,82,21
102755,85,26
110793,100,43
111459,100,43
```

157. Helium Transportation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 20:40:37 UTC
From: pverhage1960
Topic: 157 Message: 157

Don and I dropped off the 9 helium tanks at the airport. The total cost for the truck and gas was $100. Needless to say, we need people with cars to help us haul the tanks out of there on Monday. If we get two or three cars, with each one carrying two tanks, we can haul them out in two trips for less than $100.

Paul

158. Dinner on Thursday

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 20:47:15 UTC
From: pverhage1960
Topic: 158 Message: 158

I'll be in town on Thursday. Can I get a list of people who expect to be here on Thursday and may want to go to dinner? I'll recommend a Chinese/American buffet on the sourthwest side of town.

Paul

159. Send email please

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 21:20:05 UTC
From: pverhage1960
Topic: 159 Message: 159

I can send messages to the group, but I can't send email outside the group.

Can someone please send email to kc0dw@... and let him know what's happening as far as our changes? My HT wasn't hitting the repeater very well last night, so he couldn't understand everything I was saying. Once you email him, please let the group know.

Paul

160. Media

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 21:21:58 UTC
From: pverhage1960
Topic: 160 Message: 160

I don't know about the slide carosel yet, can someone bring one?

I've faxed WDAF in KC and WIBW in Topeka. I let materials with the Manhattan Mercury and talked to the Herington Times by phone.

If you know some other media to call, please do so. I'll update WIBW as to the Herington launch.

Paul

161. Re: [GPSL] Send email please

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 21:32:37 UTC
From: Mark Conner
Topic: 159 Message: 161

I tried to send him a note, but came back as invalid e-mail address.

- Mark

----- Original Message -----
From: "pverhage1960" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, July 03, 2002 16:20
Subject: [GPSL] Send email please

> I can send messages to the group, but I can't send email outside the
> group.
>
> Can someone please send email to kc0dw@... and let him know what's
> happening as far as our changes? My HT wasn't hitting the repeater
> very well last night, so he couldn't understand everything I was
> saying. Once you email him, please let the group know.

162. Re: [GPSL] Kansas repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 22:07:36 UTC
From: Don Pfister
Topic: 148 Message: 162

A quick repeater report: the only one that I could hit from the Herington Airport was the Junction City 146.880 that was with less than 50W mobile, but I did have my pre-amp on - but I'm not sure I needed it. I was able to hit it without the pre-amp but I didn't have anyone to talk too. It seemed a bit spotty up and down the hills.

I was not able to bring up the 'Herington' repeater at all. I guess it doesn't exist anymore. I tried with and without the tone. EIC do you know if the Herington repeater is no more?

The Manhattan repeater had pretty good coverage from I-70 but dropped out before Herington. I talked to Mike KD0FW for a long time on it, as I drove between Topeka and Manhattan. He was at his home in Independence, MO. I think he has a better than average antenna system. ;-)

That is about it.

Let me know if you have any questions.

Thanks,
Don

163. Re: [GPSL] Helium Transportation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 22:23:57 UTC
From: Don Pfister
Topic: 157 Message: 163

Paul, I will plan to be there.

Just a note, the "truck and gas" was gasoline for the truck - not the helium.
;-)

Don

pverhage1960 wrote:

> Don and I dropped off the 9 helium tanks at the airport. The total
> cost for the truck and gas was $100. Needless to say, we need people
> with cars to help us haul the tanks out of there on Monday. If we get
> two or three cars, with each one carrying two tanks, we can haul them
> out in two trips for less than $100.
>
> Paul

164. Re: [GPSL] Dinner on Thursday

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 22:25:57 UTC
From: Don Pfister
Topic: 158 Message: 164

Paul, maybe this needs to go to other lists too. I know Bob and I were planning on being there but he doesn't get this list. I'm not sure who else might be in the same situation.

That sounds good to me.

Don

pverhage1960 wrote:

> I'll be in town on Thursday. Can I get a list of people who expect to
> be here on Thursday and may want to go to dinner? I'll recommend a
> Chinese/American buffet on the sourthwest side of town.
>
> Paul

165. Pictures from Herington airport

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 23:42:49 UTC
From: Mark Conner
Topic: 165 Message: 165

Looks like we'll want to fill outside, unless it's really really windy. Links to pics below.

- Mark

http://members.cox.net/n9xtn/KHRU/dsc_003.jpg
http://members.cox.net/n9xtn/KHRU/dsc_004.jpg
http://members.cox.net/n9xtn/KHRU/dsc_005.jpg
http://members.cox.net/n9xtn/KHRU/dsc_006.jpg
http://members.cox.net/n9xtn/KHRU/dsc_007.jpg
http://members.cox.net/n9xtn/KHRU/dsc_008.jpg
http://members.cox.net/n9xtn/KHRU/dsc_009.jpg
http://members.cox.net/n9xtn/KHRU/dsc_010.jpg
http://members.cox.net/n9xtn/KHRU/dsc_011.jpg

166. Re: [GPSL] Pictures from Herington airport

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-03 23:47:24 UTC
From: Don Pfister
Topic: 165 Message: 166

Actually, other than oil spots on the floor it was not too bad. It is open and bottom of the door is over 10' - ceiling (rafters are at least 12' high.

I put the photos on my page too. I actually dropped some of the dups that weren't very good.

Thanks

Mark Conner wrote:

> Looks like we'll want to fill outside, unless it's really really
> windy. Links to pics below.
>
> - Mark
>
> http://members.cox.net/n9xtn/KHRU/dsc_003.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_004.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_005.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_006.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_007.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_008.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_009.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_010.jpg
> http://members.cox.net/n9xtn/KHRU/dsc_011.jpg
>

167. Forecast update, 4 Jul

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 16:26:13 UTC
From: Mark Conner
Topic: 167 Message: 167

Happy Independence Day to everyone!

The Eta forecast is now showing north winds above 30,000 ft - the AVN shows light and variable. This makes only minor differences in the overall forecast track.

For 75kft, the landing is 281 degrees at 10 miles. The 95,000 ft landing is about 8 miles farther west.

If you're thinking about a "catch" as it comes down (I sure am), this is the day. The road grid is pretty good, and the low-level winds should be almost due south. The landing should be about 2 miles due north of the payload's position at 10,000 ft on descent.

- Mark

168. 4 Jul 12Z Eta 48hr forecast winds

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 16:28:11 UTC
From: Mark Conner
Topic: 168 Message: 168

```
*1200Z 06 08 2002 ,UNK,Intact ,0 ,0 ,26 ,26
1250,129,3
1270,136,3
2021,197,9
2795,191,11
3589,185,13
4393,181,15
5220,180,15
6060,180,15
6923,182,15
7805,186,13
8707,186,11
9636,173,7
10591,141,9
12575,114,15
14685,149,9
16969,152,9
19432,158,11
22110,165,11
25039,164,6
28281,159,1
31909,7,6
36056,359,13
40906,13,17
46785,20,9
54813,54,6
55308,56,2
58205,67,12
59704,77,16
61614,95,18
63418,108,13
65082,102,13
68471,95,14
72063,98,17
79068,65,21
81279,83,21
83746,103,20
86578,101,22
87631,100,23
93864,92,23
97014,100,25
102887,85,29
107946,85,29
110990,85,29
```

169. Carousel projector

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 18:11:41 UTC
From: Mark Conner
Topic: 169 Message: 169

Bill, I'll have a Carousel projector with me tomorrow.

Also, I'll be leaving Omaha at about 2:30 and should be to
Manhattan between 6:30 and 7pm.

- Mark

170. Dinner

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 19:15:06 UTC
From: pverhage1960
Topic: 170 Message: 170

There's a 24 hour study area at teh campus, so I have access to group email. I have my cell phone and HT in the car, and I'll be monitoring them shortly. Just finished watching MIB-2, not bad. There comment about postal workers was cute. By the way, the last Star Trek:TNG movie is coming out in time for Christmas.

The hanger at Herington looks fine for filling balloons. I'll pick up a plastic tarp to toss on the group. I don't want those oil spots on my balloon sheets. Funny, I never thought I'd see so many oil spots around aircraft.

I have four people arriving tonight, Bob, Don, Mark, and Mike. I'll monitor the repeater for your arrivals.

See you all later,
Paul

171. Re: [GPSL] Dinner

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 19:17:53 UTC
From: Mark Conner
Topic: 170 Message: 171

Paul KC0KXR and Doug KA0O will also be arriving this evening,
probably in time for dinner as well.

- Mark

----- Original Message -----
From: "pverhage1960" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 04, 2002 14:15
Subject: [GPSL] Dinner

> I have four people arriving tonight, Bob, Don, Mark, and Mike.
I'll
> monitor the repeater for your arrivals.

172. Re: [GPSL] Dinner

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 20:12:59 UTC
From: Zack Clobes
Topic: 170 Message: 172

I will be leaving Hutch sometime between 12:00pm and 5:30pm. If I get out early, are there any dinner plans that I should be aware of for Friday night?

Also, the final decision for vehicle comm is on 446.52 simplex? I should have 7.2535Mhz on my vehicle also (if my new magnet holds up....).

What time are we gathering/launching from Herington?

Thanks,
Zack
----- Original Message -----
From: pverhage1960
To: GPSL@yahoogroups.com
Sent: Thursday, July 04, 2002 2:15 PM
Subject: [GPSL] Dinner

There's a 24 hour study area at teh campus, so I have access to group email. I have my cell phone and HT in the car, and I'll be monitoring them shortly. Just finished watching MIB-2, not bad. There comment about postal workers was cute. By the way, the last Star Trek:TNG movie is coming out in time for Christmas.

The hanger at Herington looks fine for filling balloons. I'll pick up a plastic tarp to toss on the group. I don't want those oil spots on my balloon sheets. Funny, I never thought I'd see so many oil spots around aircraft.

I have four people arriving tonight, Bob, Don, Mark, and Mike. I'll monitor the repeater for your arrivals.

See you all later,
Paul

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To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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173. Airport times for launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 20:30:03 UTC
From: Don Pfister
Topic: 173 Message: 173

What time do we plan to be at the airport Saturday to prep for launch? I think I told Harold about an hour later than Paul mentioned yesterday.

Thanks,
Don

174. Re: [GPSL] Carousel projector

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 21:14:33 UTC
From: wb8elk@aol.com
Topic: 169 Message: 174

I won't need the Carousel....I transferred them to video tape.

175. WB8ELK Balloon cancellation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 21:16:03 UTC
From: wb8elk@aol.com
Topic: 175 Message: 175

Since I had to work overtime, I don't have time to drive to Kansas...so I now have to fly.....So no payload.

I will be at the talks and will enjoy watching and chasing the balloons on Saturday.

73s de WB8ELK

176. Answers to Questions

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-04 21:47:22 UTC
From: pverhage1960
Topic: 176 Message: 176

I'll try to get to the airport by 5:00 AM on Saturday. WE need to get the balloons filled as early as possbile to reduce the chances of trying to launch in high winds. Can we start filling before 6:00AM?

Friday's dinner is at Sirlion Stockade. Some of us are trying to go to dinner this evening (Thursday). Check in on the repeater for directions.

Paul

177. Re: [GPSL] Answers to Questions

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-05 01:28:00 UTC
From: Michael L. Bogard
Topic: 176 Message: 177

What time is the dinner Friday night? And what time will the launch be on Saturday?

178. Forecast update, 4 July evening

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-05 04:00:45 UTC
From: n9xtn
Topic: 178 Message: 178

The 00Z run is pretty consistent with this morning's Eta run. The balloon will head north about 5 miles, back to the south about 3 mi, then head west about 5-12 miles (depending on burst).

I've uploaded a graphic to:
http://groups.yahoo.com/group/GPSL/files/forecast.gif

Below is the wind data for the DIY folks.

- Mark

1243,129,6
1270,138,6
2021,188,17
2795,188,17
3589,186,15
4393,186,15
5220,186,15
6060,184,13
6923,181,13
7805,174,11
8704,172,11
9629,166,11
10581,162,11
12566,148,9
14692,154,9
16965,161,13
19419,170,15
22090,178,13
25016,182,9
28261,193,6
31896,245,3
36043,339,11
40873,346,11
46765,348,7
54803,65,9
57788,50,9
59511,50,8
61712,50,7
68162,109,11
68569,110,10
78510,84,25
79199,85,27
81417,96,30
84842,101,24
87893,105,18

```
101059,85,36
103182,85,41
106594,85,41
```

179. Times of Meals

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-05 12:59:19 UTC
From: pverhage1960
Topic: 179 Message: 179

Dinner is at 6:00 PM on Firday. Launch will be around 7:00 - 8:00 AM on Saturday. I'll be at the site by 5:00 AM, filling should begin no later than 6:00 AM and earlier if possible.

Paul

180. GPSL official landing prediction from WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-06 00:00:22 UTC
From: wb8elk@aol.com
Topic: 180 Message: 180

Hi Ralph,

My seat of the pants prediction based on glancing at the slide of the wind data...made at 6:57 July 5th from the KSU Library.

14.1 miles at 315 degrees....for all payloads.

I really loved the conference and looking forward to the flight tomorrow.

73s de Bill WB8ELK

181. Launch time update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-06 02:20:44 UTC
From: n9xtn
Topic: 181 Message: 181

We'll be launching about 9am CDT Saturday (1400 UTC). Crews should plan to arrive at the Herington airport at 7am (this was decided after the earlier msgs were posted). It's about 1 hour from Manhattan.

I'm working on a formal prediction now, but there shouldn't be much change from earlier estimates.

73 de Mark N9XTN

182. Last prediction update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-06 02:38:16 UTC
From: n9xtn
Topic: 182 Message: 182

The winds have changed a little, but not that much. For 75kft, we'll be due west at 12 miles. For 95kft, due west at 22 miles. This is a bit north of Hwy 4 west of Herington.

My prediction for NSTAR:
N38° 42.48' W97° 13.66'

There is a gas station in Herington about 1/4 mile west of US77 on US56 (south part of town).

- Mark

183. 6 for 6 on recoveries today

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-07 04:41:50 UTC
From: Mark Conner
Topic: 183 Message: 183

I'm on my second day of 2.5 hours of sleep, so this will be short.

All payloads were recovered. KD0FW's ATV transmitter was tracked down by DFing - took 2-3 hours after landing to locate it. All others were recovered shortly after landing without incident. Several of us saw 3 payloads touchdown (TVNSP, EOSS, NSTAR).

I think everything functioned very well. Don't know of any significant payload problems.

Having 5 APRS payloads on one frequency worked better than expected. Not that many collision problems, certainly not enough to interfere with tracking.

All in all, a very successful symposium and flights. Congrats to all who made it happen.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

184. GPSL2002

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-07 17:25:09 UTC
From: Harry M
Topic: 184 Message: 184

Hi everyone!

First of all I would like to congratulate all the teams for a very successful launch, flight and recovery.

This was my first attendance at a high altitude balloon event and I had a wonderful and informative experience. My thanks goes out to all who were responsible for the coordination of the event. I thoroughly enjoyed attending the lectures which I thought were very informative and I also enjoyed meeting a great group of people. The launch and recovery efforts were also very informative and enjoyable even though I was not able to get positions on my APRS mobile. The radio and the clouds of dust down the section roads kept me in touch. I do plan on attending GPSL2003 and any other event that I am able to attend. I will also try to get some interest fired up here in Tulsa and hopefully get something in the air before GPSL2003 and maybe have a payload ready to fly for that event.

Thanks again for a great event!

73 de Harry
KC5TRB, Tulsa

185. GPSL Sign-in Sheet

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-07 18:55:43 UTC
From: Harry M
Topic: 185 Message: 185

Can whoever has the sign-in sheet from the lectures make the contents available?

Thanks
Harry KC5TRB

186. Conference & Photos

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-07 23:12:12 UTC
From: kd7lmo
Topic: 186 Message: 186

Thanks from the ANSR group for all the hard work by Paul and others to get GPSL-2002 organized. Lets have them more often than every nine years. Hope we can fly again soon as a group and work on other projects like a cross country balloon flight.

I've posted some photos in the 'Photos' section on the yahoo group page. Yahoo groups makes them much smaller, but I have the original 2048 x 1536 version if someone wants to make real pictures out of them.

Michael Gray
73s de kd7lmo

187. NSTAR videotape

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 04:14:01 UTC
From: Mark Conner
Topic: 187 Message: 187

Well, the tape ran OK, but it was a little disappointing. Apparently I induced a lot of twisting into the load line when I wrapped it on different things as we went through the preparation. The camera spun at about 1 revolution per second after release, and didn't slow down for about 10 minutes. I'll try doing some frame captures of the initial few minutes to see what I get - the camcorder has a 1/500 or 1/1000 shutter setting and even with the wild rotation we should get some usable frames with photos of the other balloons near the surface. The high-altitude shots were very nice, though. Appeared to be a rather high smoke layer from all the various fires out west - I don't think we were above it even at 50 kft. The batteries ran out a little bit before burst.

Next time I'll see if I can get the payload to hang free for a while and take out any serious line twist before release.

I haven't watched it closely, but I could not pick out anything that looked like a balloon after the initial ascent. One of these days I'll work out the FOV of the camera, and how well a 10-30 ft balloon would show up at a distance of a few miles.

Goodness, what a blast it was to see six payloads jump in the air at once, then to go chasing and see three of them coming down. The two days were a little tiring and my stress level was a bit high at times, but still one of the most enjoyable days of ballooning I've ever had. So many ideas to try for the future, too.

73 de Mark N9XTN

188. Re: [GPSL] NSTAR videotape

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 05:16:18 UTC
From: Doug Eubanks
Topic: 187 Message: 188

Mark,

Too bad about the video tape at the lower levels, maybe you can get frame capture or two that are good. Can't let that character from Idaho be the only one to get pictures of the balloons in flight!

They make heavy duty swivels for fishing, they don't have the snaps that have pulled apart, but have regular eyelets on them. I wonder if we put one of them just above the payloads if that would take out some of the twisting. Especially that which is sudden or has quite a bit of torque behind it. It would react much like a slip clutch and maybe give before the payload moved.

As far as the rest of you, well, it was a GREAT time! I too enjoyed the symposium on Friday, and really enjoyed the launch. Even though I have helped with a number of launches, the was the first time I had actually seen a payload land. And then to witness 3 of them on the same day, talk about lucky! I am definitely looking forward to next year!

Doug, KAØO
----- Original Message -----
From: Mark Conner
To: GPSL List
Sent: Sunday, July 07, 2002 11:14 PM
Subject: [GPSL] NSTAR videotape

Well, the tape ran OK, but it was a little disappointing. Apparently I induced a lot of twisting into the load line when I wrapped it on different things as we went through the preparation. The camera spun at about 1 revolution per second after release, and didn't slow down for about 10 minutes. I'll try doing some frame captures of the initial few minutes to see what I get - the camcorder has a 1/500 or 1/1000 shutter setting and even with the wild rotation we should get some usable frames with photos of the other balloons near the surface. The high-altitude shots were very nice, though. Appeared to be a rather high smoke layer from all the various fires out west - I don't think we were above it even at 50 kft. The batteries ran out a little bit before burst.

Next time I'll see if I can get the payload to hang free for a while and take out any serious line twist before release.

I haven't watched it closely, but I could not pick out anything that looked like a balloon after the initial ascent. One of these days I'll work out the FOV of the camera, and how well a 10-30 ft balloon would show up at a distance of a few miles.

Goodness, what a blast it was to see six payloads jump in the air at once, then to go chasing and see three of them coming down. The two days were a little tiring and my stress level was a bit high at times, but still one of the most enjoyable days of ballooning I've ever had. So many ideas to try for the future, too.

73 de Mark N9XTN

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189. Re: [GPSL] NSTAR videotape

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 06:03:13 UTC
From: Don Pfister
Topic: 187 Message: 189

Doug Eubanks wrote:

> They make heavy duty swivels for fishing, they don't have the snapsthat have
> pulled apart, but have regular eyelets on them.
> ...
> Doug, KA?O

What I use is a big swivel - I think it is rated at like 5000 lbs (I have seen some at 1500# and 500#, if memory serves me - which it doesn't very often anymore). It is for high powered rocketry. As I remember it was high priced too about $5. I'll take a picture or find it on the web.

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab

190. Re: [GPSL] Digest Number 43

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 14:42:43 UTC
From: K. Mark Caviezel
Topic: 190 Message: 190

wow, sounds like all attendees had a great experience. Am sorry to have missed the event, but have an opportunity to support the work of the Mars Society in the Canadian polar arctic on Devon Island.

I've been talking with a Marcus Landgraf, a member of Mars Society Germany, concerning a mars balloon mission that they want to design and test soon. I am assisting him with know-how gained with my flights with EOSS and some of my own flights. I showed him the EOSS web site with flight prediction/tracking flight hardware pictures and launch and landing photos. Hopefully they will move forward soon with their super pressure balloon project.

- KMC kc0jhq-3 (soon to be the furthest north station on findu.com if I can hit PCSat)

_____
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http://sbc.yahoo.com

191. TVNSP Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 17:30:25 UTC
From: pverhage1960
Topic: 191 Message: 191

Change the altitude of TVNSP's capsule to 88,163 feet. My flight data recorder has an entry for 15:58:15 for that altitude.

Paul

192. Log files

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 17:51:05 UTC
From: Mark Conner
Topic: 192 Message: 192

If you have any RF log files, please upload them to the files
area on Yahoo Groups here:
http://groups.yahoo.com/group/GPSL/files/GPSL2002Logs/

I've put a couple in there already. I'll also have the data from
the APRS Internet feed posted in there in a day or two. Maximum
sharing of the RF logs should help everyone get a fairly complete
record (minus collisions).

73 de Mark N9XTN

193. Re: [GPSL] Log files

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 18:42:08 UTC
From: Don Pfister
Topic: 192 Message: 193

I'm gathering RF logs from our tracking station(s) will do as you request.

I pulled logs from findu for all capsules the other night. Would you like me to send them or have you gotten them yet?

Don

Mark Conner wrote:

> If you have any RF log files, please upload them to the files
> area on Yahoo Groups here:
> http://groups.yahoo.com/group/GPSL/files/GPSL2002Logs/
>
> I've put a couple in there already. I'll also have the data from
> the APRS Internet feed posted in there in a day or two. Maximum
> sharing of the RF logs should help everyone get a fairly complete
> record (minus collisions).
>
> 73 de Mark N9XTN

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.netlab.org/~donp
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

194. Re: [GPSL] Log files

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 19:41:50 UTC
From: Mark Conner
Topic: 192 Message: 194

If you are unable to post to the files area, just e-mail your log to me
and I can put it there for you.

73 de Mark N9XTN

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
Date: Monday, July 8, 2002 12:51 pm
Subject: [GPSL] Log files

> If you have any RF log files, please upload them to the files
> area on Yahoo Groups here:
> http://groups.yahoo.com/group/GPSL/files/GPSL2002Logs/
>
> I've put a couple in there already. I'll also have the data from
> the APRS Internet feed posted in there in a day or two. Maximum
> sharing of the RF logs should help everyone get a fairly complete
> record (minus collisions).
>
> 73 de Mark N9XTN

195. Garmin GPS-35LVS units available

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 20:01:43 UTC
From: Mark Conner
Topic: 195 Message: 195

TVNSP recently completed a buy of Garmin GPS-35LVS units at a discount. These are the mouse-looking units complete with patch antenna and are the low-voltage (3-6V) input and true RS-232 output version. They work very nicely for balloon payloads and also work nicely for terrestrial APRS applications.

A few of these units remain available at a price of about $110. The usual cost is $140 or more. Contact Stephanie KC7DBA at stephanie@... for more details and exact pricing.

73 de Mark N9XTN

196. Re: [GPSL] Log files

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 22:38:46 UTC
From: Zack Clobes
Topic: 192 Message: 196

I posted my personal log file and all of the other junk that my TNC picked up.
Zack Clobes, W0ZC
Project: Traveler
----- Original Message -----
From: Mark Conner
To: GPSL@yahoogroups.com
Sent: Monday, July 08, 2002 2:41 PM
Subject: Re: [GPSL] Log files

If you are unable to post to the files area, just e-mail your log to me
and I can put it there for you.

73 de Mark N9XTN

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
Date: Monday, July 8, 2002 12:51 pm
Subject: [GPSL] Log files

> If you have any RF log files, please upload them to the files
> area on Yahoo Groups here:
> http://groups.yahoo.com/group/GPSL/files/GPSL2002Logs/
>
> I've put a couple in there already. I'll also have the data from
> the APRS Internet feed posted in there in a day or two. Maximum
> sharing of the RF logs should help everyone get a fairly complete
> record (minus collisions).
>
> 73 de Mark N9XTN

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197. Peak altitude for Project: Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-08 22:40:27 UTC
From: Zack Clobes
Topic: 197 Message: 197

Here's the peak altitude as recorded by my controller: 22204m

198. GPSL Photos

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 04:15:08 UTC
From: kd7lmo
Topic: 198 Message: 198

Since the Yahoo group page made all the GPSL photos I posted really small and grainy I've deleted them and moved them to a different location:

http://www.kd7lmo.net/gpsl2002.html

73s de Michael Gray, kd7lmo

199. Balloon Lifts and Payload weights

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 07:03:10 UTC
From: wb8elk@aol.com
Topic: 199 Message: 199

I'd be interested in the amount of nozzle lift that each group put into their balloons, the size of balloon and weight of the flight train (parachute and payload), and also size of the parachute. It'll give me some good data to refine some of my calculations for the Ascent rate and Descent rate programs I wrote for Balltrak.

I had a great time at the event and am definitely looking forward to next year...this time I'll drive up and bring a payload!!

I should have my photos on my website by this weekend:

http://www.hamballoons.com

or

http://www.wb8elk.com

73s de Bill WB8ELK

200. Re: [GPSL] Balloon Lifts and Payload weights

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 12:31:07 UTC
From: Zack Clobes
Topic: 199 Message: 200

Traveler:
600g, 10lbs of lift, 2.2lb package with rigging, about 1250ft/min ascent.
----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Tuesday, July 09, 2002 2:03 AM
Subject: [GPSL] Balloon Lifts and Payload weights

I'd be interested in the amount of nozzle lift that each group put into their balloons, the size of balloon and weight of the flight train (parachute and payload), and also size of the parachute. It'll give me some good data to refine some of my calculations for the Ascent rate and Descent rate programs I wrote for Balltrak.

I had a great time at the event and am definitely looking forward to next year...this time I'll drive up and bring a payload!!

I should have my photos on my website by this weekend:

http://www.hamballoons.com

or

http://www.wb8elk.com

73s de Bill WB8ELK

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201. Garmin GPS-35 HVS Mod

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 13:18:40 UTC
From: Harry M
Topic: 201 Message: 201

FYI

Just thought I'd share my GPS Mod page!

I added an internal preamp to my Garmin GPS-35HVS TracPak. This is the HVS (12v) version.
It is still in the vehicle and working great.

Harry
KC5TRB, Tulsa

202. GPSL EXCEL Ascent Rate Charts

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 15:18:29 UTC
From: Ralph Wallio, W0RPK
Topic: 202 Message: 202
Attachments: 3 described; binary payloads are missing from this source WARC

GPSL APRS data on 144.34MHz captured by Dan Miller, KE4SLC, in Salina, KS has been sorted in an EXCEL workbook first by payload, then by time. Primary data fields are TIME [UTC], LATITUDE [DD.dd..], LONGITUDE [DD.dd..] and ALTITUDE [feet]. ASCENT RATE [feet/minute] has been derived from finite differences of TIME and ALTITUDE.

There are occasional data gaps and anomalies that have yet to be filled and resolved but the attached charts of VERTICAL VELOCITY are nonetheless interesting. Note that the flights of KA0JLF and N9XTN are very similar as are the flights of KD4STH and W5VSI (the latter two are so similar that we will call them the "Twins").

W0WR experienced a substantially different ascent characteristic than all other flights. Note that while the ascent rates of all other flights were slowly decreasing, the ascent rate of W0WR was increasing.

I will be filling gaps and resolving anomalies as data becomes available. The entire EXCEL file is available as an email attachment to anyone that requests it.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Nothing exceeds the speed of light

203. Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 15:31:16 UTC
From: Don Pfister
Topic: 203 Message: 203

As I was thinking about this question, it occured to me - it was probably answered at the GPSL symposium. IF that is the case you can ignore it and I'll accept the consequences of my absence.

How are you making your PCBs? I have received boards from Paul and Mark. Their quality, and those I see on your various web pages, are outstanding. It has probably been 3 decades or so since I have tried making PCBs at home, yes it probably was in the 70s or 80s. I remember the quality not being that good.

IF you would care to share what software you use, etc. and possibly a quick procedure I would appreciate it.

Are any of you using that iron on PCB layout paper?

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.netlab.org/~donp

204. Re: [GPSL] Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 17:30:03 UTC
From: Zack Clobes
Topic: 203 Message: 204

I never could get anything out of the toner-transfer systems. I'm now using the photo-resist techniques from places like DigiKey and Jameco (among others). I think they're all about the same.

- Make a PCB transparency - I'm currently using DesignCad to do this, but am interested in switching to some auto-routing software.
- In a darkroom, sandwich the transparency over the coated PCB board and expose to a flourecent light for about 5 minutes (read the instructions)
- Dunk the PCB into a bath of developer for a few minutes
- Etch the board in a standard acid tank.

With this method, I've been getting almost perfect results down to .5mm width, and they claim you can go down to .13mm as I recall.

The darkroom part of it isn't terribly critical - I just wait until after dark and turn the lights of in part of the basement. You can use one of those orange bug lights to see - I have mine on a dimmer switch. I am using one of the 100W replacement bulbs (flourecent) in a small light fixture which I support a few inches over the PCB.

Zack Clobes, W0ZC
Project: Traveler
----- Original Message -----
From: Don Pfister
To: GPSL@yahoogroups.com
Sent: Tuesday, July 09, 2002 10:31 AM
Subject: [GPSL] Question

As I was thinking about this question, it occured to me - it was probably answered at the GPSL symposium. IF that is the case you can ignore it and I'll accept the consequences of my absence.

How are you making your PCBs? I have received boards from Paul and Mark. Their quality, and those I see on your various web pages, are outstanding. It has probably been 3 decades or so since I have tried making PCBs at home, yes it probably was in the 70s or 80s. I remember the quality not being that good.

IF you would care to share what software you use, etc. and possibly a quick procedure I would appreciate it.

Are any of you using that iron on PCB layout paper?

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF

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(High Altitude Basic Investigation Testing And Tracking)
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205. Re: [GPSL] Balloon Lifts and Payload weights

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 17:56:51 UTC
From: Mark Conner
Topic: 199 Message: 205

NSTAR used an 800g balloon, lift was about 13.8 lbs (breezy at
the time), total suspended weight 11.0 lbs.

- Mark

----- Original Message -----
From: <wb8elk@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, July 09, 2002 02:03
Subject: [GPSL] Balloon Lifts and Payload weights

>
>
> I'd be interested in the amount of nozzle lift that each group
put into their
> balloons, the size of balloon and weight of the flight train
(parachute and
> payload), and also size of the parachute. It'll give me some
good data to
> refine some of my calculations for the Ascent rate and Descent
rate programs
> I wrote for Balltrak.

206. Re: [GPSL] Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 18:01:27 UTC
From: mgray@ess-us.com
Topic: 203 Message: 206

Hi Don,

I did a presentation on making PCBs at GPSL. I als have a step by step
guide on my web site at:

http://www.kd7lmo.net/tech_pcb.html

There is a list of vendors and software included.

I tried the iron on method before, but the quality wasn't that great.
There are a number of full size photo methods that work very well.
With the very low cost of 600 DPI printers, it is possible to create
some very high quality artwork with 8mil traces and 6mil spacing.

Good luck on your project and let us know how it works out.

73s de Michael Gray, kd7lmo

From sentto-6764416-202-1026228740-mgray=ess-us.com@... Tue Jul 9 08:32:56 2002
X-eGroups-Return: sentto-6764416-202-1026228740-mgray=ess-us.com@...
X-Sender: ka0jlf@...
X-Apparently-To: GPSL@yahoogroups.com
X-Mailer: Mozilla 4.61 [en]C-CCK-MCD (Win98; U)
X-Accept-Language: en
To: GPSL@yahoogroups.com
References: <007f01c2275b$e2593700$bfde51d8@j2l8z3>
From: Don Pfister <ka0jlf@...>
X-Yahoo-Profile: ka0jlf
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Tue, 09 Jul 2002 10:31:16 -0500
Subject: [GPSL] Question
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

As I was thinking about this question, it occured to me - it was probably answered at
the GPSL symposium. IF that is the case you can ignore it and I'll accept the
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How are you making your PCBs? I have received boards from Paul and Mark. Their
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the 70s or 80s. I remember the quality not being that good.

IF you would care to share what software you use, etc. and possibly a quick procedure I would appreciate it.

Are any of you using that iron on PCB layout paper?

Thanks,
Don

--

[Signature File]
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207. Re: [GPSL] Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 18:07:21 UTC
From: Don Pfister
Topic: 203 Message: 207

This is the basic method I used in the past. What I used, in the past, was much the same, except, and this just came to me, for the photo transparency. My kit was made up of a photo resist ink and I used some dry transfer patterns. I never got clean lines, even going over it with the pen. Admittedly, I never dealt with the temperature or agitation like I was suppose to.

It has been decades, again with the decades - seem like everything was 30 to 40 years ago, I always seemed to have a darkroom set up. One nice thing when I lived in Denver, there were 'really nice' (professional grade) darkrooms you could rent - lots of fun memories there. ;-)

Zack, it sounds to me like I need to make the (what is it called?) reverse image transparency? Maybe I should buy the kits from DigiKey or Jameco instead of RS. ?

Thank you Zack! Any of the rest of you doing anything different?

Thanks all!
Don

Zack Clobes wrote:

> I never could get anything out of the toner-transfer systems. I'm now using
> the photo-resist techniques from places like DigiKey and Jameco (among
> others). I think they're all about the same. - Make a PCB transparency - I'm
> currently using DesignCad to do this, but am interested in switching to some
> auto-routing software.- In a darkroom, sandwich the transparency over the
> coated PCB board and expose to a flourecent light for about 5 minutes (read
> the instructions)- Dunk the PCB into a bath of developer for a few minutes-
> Etch the board in a standard acid tank. With this method, I've been getting
> almost perfect results down to .5mm width, and they claim you can go down to
> .13mm as I recall. The darkroom part of it isn't terribly critical - I just
> wait until after dark and turn the lights of in part of the basement. You can
> use one of those orange bug lights to see - I have mine on a dimmer switch. I
> am using one of the 100W replacement bulbs (flourecent) in a small light
> fixture which I support a few inches over the PCB. Zack Clobes, W0ZC
> Project: Traveler
>
> ----- Original Message -----
> From: Don Pfister
> To: GPSL@yahoogroups.com
> Sent: Tuesday, July 09, 2002 10:31 AM
> Subject: [GPSL] Question
> As I was thinking about this question, it occured to me - it was
> probably answered at
> the GPSL symposium. IF that is the case you can ignore it and I'll

> accept the
> consequences of my absence.
>
> How are you making your PCBs? I have received boards from Paul and
> Mark. Their
> quality, and those I see on your various web pages, are outstanding.
> It has probably
> been 3 decades or so since I have tried making PCBs at home, yes it
> probably was in
> the 70s or 80s. I remember the quality not being that good.
>
> IF you would care to share what software you use, etc. and possibly
> a quick procedure
> I would appreciate it.
>
> Are any of you using that iron on PCB layout paper?
>
> Thanks,
> Don
>

--

[Signature File]
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http://habitat.netlab.org
http://www.netlab.org/~donp

208. Re: [GPSL] Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 18:15:51 UTC
From: Don Pfister
Topic: 203 Message: 208

Actually Michael it was your page that got me to thinking about this. I looked at your pictures URL you sent
earlier and got sidetracked viewing your information. I saw your Micro Beacon (sent you an email question on it)
and other info, which caused me to wonder how you all got such nice traces - my past experience as I said was less
than 'good'.

I'll review your info you sent me and pointed me to! Thanks and sorry I missed your (and everyone else's)
presentation.

Don

comment below:

mgray@... wrote:

> Hi Don,
>
> I did a presentation on making PCBs at GPSL. I als have a step by step
> guide on my web site at:
>
> http://www.kd7lmo.net/tech_pcb.html
>
> There is a list of vendors and software included.
>
> I tried the iron on method before, but the quality wasn't that great.
> There are a number of full size photo methods that work very well.
> With the very low cost of 600 DPI printers, it is possible to create
> some very high quality artwork with 8mil traces and 6mil spacing.
>

You kind of lost me here (it's an easy thing to do ;-) Are you saying you print the 'full size photo artwork' and
then make a transparency out of it? OH, are you and Zack, saying you can print the artwork on transparency film
and use the photo (darkroom) method? I'm sure the answer is in the info you sent me, so if it is don't feel like
you need to reply. Sorry about this my fingers get to going and the brain lags behind. ;-)

>
> Good luck on your project and let us know how it works out.
>
> 73s de Michael Gray, kd7lmo
>
> From: Don Pfister <ka0jlf@...>

> Delivered-To: mailing list GPSL@yahoogroups.com
> Date: Tue, 09 Jul 2002 10:31:16 -0500
> Subject: [GPSL] Question
>
> As I was thinking about this question, it occured to me - it was probably answered at
> the GPSL symposium. IF that is the case you can ignore it and I'll accept the
> consequences of my absence.
>
> How are you making your PCBs? I have received boards from Paul and Mark. Their
> quality, and those I see on your various web pages, are outstanding. It has probably
> been 3 decades or so since I have tried making PCBs at home, yes it probably was in
> the 70s or 80s. I remember the quality not being that good.
>
> IF you would care to share what software you use, etc. and possibly a quick procedure
> I would appreciate it.
>
> Are any of you using that iron on PCB layout paper?
>
> Thanks,
> Don

--

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209. modern PCB transparency creation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 18:48:01 UTC
From: n1ltv
Topic: 203 Message: 209

> You kind of lost me here (it's an easy thing to do ;-) Are
> you saying you print the 'full size photo artwork' and
> then make a transparency out of it? OH, are you and Zack,
> saying you can print the artwork on transparency film
> and use the photo (darkroom) method?

Don,

The big change is that the transparency (positive or negative, there are PCB emulsions of both varieties) is made full-size DIRECTLY on a transparent film right in the laser printer directly from the computer drawing program.

No photo imaging techniques required at all.

From that point the plastic film is "printed" "contact" style (1:1 film to PCB ratio) on the PCB by exposure to UV containing light and then treated and etched.

I started using the photo resist method in the mid 1960's and actually still have a COPPER laminate version of a picture of a Japanese model I made at a photo show. I should try to borrow a digital camera and take a picture of the copper. You can see the thread patterns in her traditional robe the resolution is so fine. Of course in those days there were no laser printers so the original 2 1/4 square negative was photographed on a litho negative, and then that negative (transparency) was contact printed on a PCB.

Printing and contact printing are photographic terms for those who haven't dabbled in photography.

Hank

210. Basic information needed about GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 18:51:17 UTC
From: n1ltv
Topic: 210 Message: 210

Fellow balloonatics,

Unless we want to advance the notion that ham radio ballooning is one of the most secretive activities within a hobby that already suffers in general from inadequate and misinformed press coverage, let's try to get some stories out about GPSL before it becomes stale news (no news).

A story writer would want to know at *least* the following:

1. Number of participants
2. Number of states or regions represented
3. Names of balloon groups attending
4. Names of presenters and subjects (in case it changed from the planned schedule)
5. Number and names of balloon groups launching
6. Number of balloons launched
7. Brief account of the launch (was it simultaneous or nearly so?)
8. Brief account of where the balloons landed and how the recovery went

Even as a balloon enthusiast, I have yet to find out much about of anything about any of these items (except as announced in advance planning), and what little I know came from Mark Conner regarding numbers 5 and 6.

Please help to make communication to the general ham population a task that is accomplished one tenth as well by ballooning as are its pure technical achievements.

Hank

211. Re: Balloon Lifts and Payload weights

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 19:15:05 UTC
From: n1ltv
Topic: 199 Message: 211

> I'd be interested in the amount of nozzle lift that each
> group put into their balloons, the size of balloon and weight
> of the flight train (parachute and payload), and also size of
> the parachute.

As Mark will attest, I'm always begging for this sort of information (sometimes even begging won't work) for the same reason as Bill, except it's for LIFTWIN which is based heavily on Bill's DOS methods.

The ascent rate from Bill's and my programs seems to be pretty good rough estimate, taking into account the fact that the ascent rate is not usually perfectly constant anyway.

I'd like to express my hunch on why these balloons do change speed in their rise to burst height:

Consistent with different behaviors of similar balloons in near identical air at GPSL, but something which I've been pondered for a while, I think the main mechanism in the variation of vertical speed is the change to a more spherical shape of the balloons as they ascend and become more highly inflated. The commonly observed slowdown with increasing altitude is consistent with the increased drag coefficient with the transition from a tear drop to a more spherical shape (less streamlined).

One thing that is a puzzle is that the GAINS embellished superpressure balloon recently launched from Oregon also experienced a small slowdown, and I was hoping we might hear what explanation that group might have for the phenomenon.

Hank

212. Re: [GPSL] modern PCB transparency creation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 20:20:09 UTC
From: Don Pfister
Topic: 203 Message: 212

Thanks for filling in some of the gaps Hank! I think I got it. The light bulb started glowing with the "OH" in my previous email.

Let me see if I have this right.

Create traces (artwork pattern)
Print pattern on transparency film in the printer
sandwich (contact) the transparency and copper clad board.
expose to UV light
etch the board

Am I getting there? I guess I forgot to the put emulsion on the copper board, unless it already has it. ;-) I think most don't, but if I remember right, you can buy it that way, much like photo paper.

Do any of you find the agitation and/or temperature important in the new world? I have seen articles where guys (generic term not sexist term) put pumps in their tanks to handle the agitation. I understand it helps the detail etching. Again this was years ago.

Thanks all!
Don

n1ltv wrote:

> > You kind of lost me here (it's an easy thing to do ;-) Are
> > you saying you print the 'full size photo artwork' and
> > then make a transparency out of it? OH, are you and Zack,
> > saying you can print the artwork on transparency film
> > and use the photo (darkroom) method?
>
> Don,
>
> The big change is that the transparency (positive or negative,
> there are PCB emulsions of both varieties) is made full-size
> DIRECTLY on a transparent film right in the laser printer
> directly from the computer drawing program.
>
> No photo imaging techniques required at all.
>
> >From that point the plastic film is "printed" "contact"
> style (1:1 film to PCB ratio) on the PCB by exposure to UV
> containing light and then treated and etched.
>
> I started using the photo resist method in the mid 1960's
> and actually still have a COPPER laminate version of a picture
> of a Japanese model I made at a photo show. I should try to

> borrow a digital camera and take a picture of the copper. You
> can see the thread patterns in her traditional robe the
> resolution is so fine. Of course in those days there were
> no laser printers so the original 2 1/4 square negative was
> photographed on a litho negative, and then that negative
> (transparency) was contact printed on a PCB.
>
> Printing and contact printing are photographic terms for those
> who haven't dabbled in photography.
>
> Hank

--

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http://www.netlab.org/~donp

213. Re: [GPSL] GPSL EXCEL Ascent Rate Charts

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 20:24:49 UTC
From: Mark Conner
Topic: 202 Message: 213

> Note that the flights of KA0JLF and N9XTN are very similar as
> are the flights of KD4STH and W5VSI (the latter two are so similar
> that we will call them the "Twins").

What's remarkable is that KA0JLF and N9XTN got about the same profile from substantially different trains. N9XTN used a single 800g balloon, while KA0JLF used one each of a 600g and 300g balloon. The 600g balloon was at the top of the train, with the 300g balloon about 10-15 ft below that, and another 10-15 ft to the payloads. The 300g balloon should have burst prior to the 600g balloon. It's possible that one of them burst at 1620 UTC, where the last handful of reports show a reduction to ~400 ft/min ascent.

73 de Mark N9XTN

214. forward from ANSR to EOSS to GPSL: first GPSL photos!

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 21:39:07 UTC
From: n1ltv
Topic: 214 Message: 214

Thought I'd forward this along.

73 -- Rick, N0KKZ

-----Original Message-----
From: kd7lmo [mailto:mgray@e...]
Sent: Monday, July 08, 2002 10:28 PM
To: Ballooning@yahoogroups.com
Subject: [Ballooning] GPSL - Great Plains Super Launch

On July 5th and 6th, 2002 I attended the GPSL - Great Plain Super Launch. The GPSL was a two day Amateur High Altitude Ballooning Symposium held on the campus of Kansas State University.

The first day consisted of a number of presentations from various balloon groups on their payload packages, tracking and recovery procedures, rocket/balloon projects, and meteorology. I was fortunate enough to give two presentations. One on ANSR - Arizona Near Space Research and the second on the NSRV - Near Space Research Vehicle. The event was a great way to learn about other balloon programs around the country and to meet many of the people face to face in an informal setting.

On the second day, we launched six (6) balloons and their payloads at the same time. It was an incredible sight to see that many balloon in flight. Within a few hours, all the tracking teams recovered the payloads. Unlike Arizona, Kansas is mostly flat and there are farm roads on a one mile grid for miles and miles in all directions.

It would be nice to have ANSR launch a flight at next years GPSL, so mark your calendars and prepare for a road trip. And yes, you can bring your fireworks and firecrackers to Kansas.

Event photots:

http://www.kd7lmo.net/gpsl2002.html

215. Re: first GPSL photos!

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 21:56:58 UTC
From: Mark Conner
Topic: 215 Message: 215

http://www.kd7lmo.net/gpsl2002.html
From left to right in the bottom three images on the page:

HABITAT (2 balloons, 1 payload string)
EOSS
NSTAR
Traveler
KD0FW
TVNSP

I may have Traveler and KD0FW reversed - hard to tell. The red dot in the last photo is the PIBAL brought and released by EOSS.

Additionally, EOSS, KD0FW, and TVNSP all flew 1200g balloons to the best of my knowledge.

- Mark

216. Re: [GPSL] Re: first GPSL photos!

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 22:11:18 UTC
From: Don Pfister
Topic: 215 Message: 216

I must say, I was very pleased with the 600/300 gram combination. I will be doing more testing with this in the near future.

Please correct me if I'm wrong. I think Project Traveler used a 600 gram and Mark wasn't yours an 800 gram?

Don

Mark Conner wrote:

> http://www.kd7lmo.net/gpsl2002.html
> >From left to right in the bottom three images on the page:
>
> HABITAT (2 balloons, 1 payload string)
> EOSS
> NSTAR
> Traveler
> KD0FW
> TVNSP
>
> I may have Traveler and KD0FW reversed - hard to tell. The red dot in
> the last photo is the PIBAL brought and released by EOSS.
>
> Additionally, EOSS, KD0FW, and TVNSP all flew 1200g balloons to the
> best of my knowledge.
>
> - Mark

217. Group launches

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 22:16:02 UTC
From: Don Pfister
Topic: 217 Message: 217

Oh, let me say it was a Blast with all the groups. If ANY of you are interested in doing something like this again, please let me know. I hope to see all of you and more next year.

IMHO, 6 was MUCH, MUCH, MUCH more impressive than 3, as impressive as that was. AT this rate we need 12 groups next year to maintain the momentum. ;-)

Don

Currently, I plan at least 2 more (serious?) flights for this year. Hopefully more.

--

[Signature File]
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(High Altitude Basic Investigation Testing And Tracking)

218. Balloon sizes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 22:36:02 UTC
From: Mark Conner
Topic: 218 Message: 218

Yes, I did fly an 800. Here's a summary:

HABITAT: 600/300 combo
EOSS: 1200
NSTAR: 800
Traveler: 600
KD0FW: 1200
TVNSP: 1200

I used approx. 280 cu ft in my balloon. I used a full 240 cu ft tank
and about 400 psi (~1/6th) of another.

- Mark

219. Re: [GPSL] Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 23:14:51 UTC
From: Zack Clobes
Topic: 203 Message: 219

I believe I bought my first setup from Jameco, and they were very helpful - even went and opened up a package to read the instructions to me. Since then I've been buying from Digikey because that's where I order 90% of my parts.
Zack
----- Original Message -----
From: Don Pfister
To: GPSL@yahoogroups.com
Sent: Tuesday, July 09, 2002 1:07 PM
Subject: Re: [GPSL] Question

This is the basic method I used in the past. What I used, in the past, was much the same, except, and this just came to me, for the photo transparency. My kit was made up of a photo resist ink and I used some dry transfer patterns. I never got clean lines, even going over it with the pen. Admittedly, I never dealt with the temperature or agitation like I was suppose to.

It has been decades, again with the decades - seem like everything was 30 to 40 years ago, I always seemed to have a darkroom set up. One nice thing when I lived in Denver, there were 'really nice' (professional grade) darkrooms you could rent - lots of fun memories there. ;-)

Zack, it sounds to me like I need to make the (what is it called?) reverse image transparency? Maybe I should buy the kits from DigiKey or Jameco instead of RS.
?

Thank you Zack! Any of the rest of you doing anything different?

Thanks all!
Don

Zack Clobes wrote:

> I never could get anything out of the toner-transfer systems. I'm now using
> the photo-resist techniques from places like DigiKey and Jameco (among
> others). I think they're all about the same. - Make a PCB transparency - I'm
> currently using DesignCad to do this, but am interested in switching to some
> auto-routing software.- In a darkroom, sandwich the transparency over the
> coated PCB board and expose to a flourecent light for about 5 minutes (read
> the instructions)- Dunk the PCB into a bath of developer for a few minutes-
> Etch the board in a standard acid tank. With this method, I've been getting
> almost perfect results down to .5mm width, and they claim you can go down to
> .13mm as I recall. The darkroom part of it isn't terribly critical - I just
> wait until after dark and turn the lights of in part of the basement. You can
> use one of those orange bug lights to see - I have mine on a dimmer switch. I
> am using one of the 100W replacement bulbs (flourecent) in a small light
> fixture which I support a few inches over the PCB. Zack Clobes, W0ZC
> Project: Traveler

>
> ----- Original Message -----
> From: Don Pfister
> To: GPSL@yahoogroups.com
> Sent: Tuesday, July 09, 2002 10:31 AM
> Subject: [GPSL] Question
> As I was thinking about this question, it occured to me - it was
> probably answered at
> the GPSL symposium. IF that is the case you can ignore it and I'll
> accept the
> consequences of my absence.
>
> How are you making your PCBs? I have received boards from Paul and
> Mark. Their
> quality, and those I see on your various web pages, are outstanding.
> It has probably
> been 3 decades or so since I have tried making PCBs at home, yes it
> probably was in
> the 70s or 80s. I remember the quality not being that good.
>
> IF you would care to share what software you use, etc. and possibly
> a quick procedure
> I would appreciate it.
>
> Are any of you using that iron on PCB layout paper?
>
> Thanks,
> Don
>

--

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GPSL-unsubscribe@yahoogroups.com

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220. ID all the balloonatics in group portrait

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 23:30:05 UTC
From: n1ltv
Topic: 220 Message: 220

Numbering the suspects from left to right, starting with the front row, ending with #18 far right, back row.

I know three for sure Paul, Mark, and Mike Manes (the latter from an old photo I saw on a poster in the post office).

Could everyone please take a crack at naming as many of the others here as you can?

Hank

221. Re: [GPSL] Balloon sizes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 23:40:41 UTC
From: Don Pfister
Topic: 218 Message: 221

Thanks for the run down Mark. I thought I had it right, now I also have it in text. ;-)

That is about what was left in the one I used (between both balloons), maybe I got that one. IT worked well, not sure I could have planned it any better. ;-) I think that is about what the gauge said, about 2000 psi.

Mark Conner wrote:

> I used approx. 280 cu ft in my balloon. I used a full 240 cu ft tank
> and about 400 psi (~1/6th) of another.

222. Re: [GPSL] ID all the balloonatics in group portrait

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-09 23:44:15 UTC
From: Don Pfister
Topic: 220 Message: 222

Is this the Group photo from the symposium or the launch?

More people are in the launch group, (like my group ;-), I think. Not as clear a shot tough (more distant).

Maybe we could match them in both eventually.

n1ltv wrote:

> Could everyone please take a crack at naming as many of
> the others here as you can?

223. Re: ID all the balloonatics in group portrait

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 01:24:00 UTC
From: n1ltv
Topic: 220 Message: 223

> Is this the Group photo from the symposium or the launch?

The symposium one. With this one it will be easier to
pick out people without any doubt.

If anyone can help ID the outside launch shot that's fine,
too.

224. NSTAR 02-D (GPSL 2002) Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 02:01:50 UTC
From: Mark Conner
Topic: 224 Message: 224

NSTAR Flight 02-D was one of six flights at the 2002 Great Plains Super Launch. Because of the forecast winds, the launch was moved from the Johnson Near Space Center about 8 miles southwest of Manhattan to the Herington Municipal Airport about 7 miles east of Herington.

The launch crews began arriving about 7am. A few of the local residents had come out to watch the launch, and some more came as the morning progressed. Skies were clear but hazy, with temps in the low 70s and quite humid. An occasional light breeze was out of the southeast.

We unloaded our equipment and began moving the helium tanks outside. Though we had permission to use the hangar, the ceiling and door were a little low and with the light winds it was quite suitable to launch outside. We spent a fair amount of time checking out payloads and began filling around 8:30am. Six groups flew on this morning - TVNSP, NSTAR, EOSS, Traveler, KD0FW, and HABITAT.

Mike KD0FW brought an old and rather unusual balloon. The balloon had a date code of 1980 and the latex was a very dark brown. However, it was still flexible and looked OK. There was a string running inside the balloon that was attached to the top and terminated in a plastic ring at the bottom.

A couple of minor problems soon cropped up. KD0FW's balloon took a decided turn for the worse. The balloon developed a bulge on one side and looked like an aneurysm ready to pop. Sometime a little after 9am the 22-year-old balloon gave out and with a snap released all its helium. Fortunately WB8ELK had his 1200g balloon that he couldn't use, so we were still able to fly his payload.

The other minor problem occurred while EOSS was filling. The hose came off the regulator and could not be reattached. With a combination of duct tape and another regulator assembly, they were also able to continue.

A little later, the wind began to pick up with some gusts to 10-15 knots. This spurred us to get moving a little faster and we walked the balloons into launch position around 9:30am. As our group winched our balloon out, I noticed that the shroud lines were not straight - the shroud ring needed turned around. I unhooked the payloads and got it sorted out after a few tense moments.

Finally, we were ready to go. Paul KD4STH did a "ready" call for all the groups and after a five-count, everyone let their payloads go at 9:42:30am CDT (+/- 5 sec). What a sight! All of the balloons drifted to the northwest as they rose into the hazy Kansas sky.

With a short chase expected, we had plenty of time to load our equipment. All the payloads were running fine and putting out good data. With 5 APRS

payloads on 144.34 MHz (KD0FW was tracked by DF only), it was a busy frequency! Three of the payloads were time slotted (EOSS, TVNSP, and NSTAR), while the other two (Traveler, HABITAT) were at intervals that would not consistently collide with the same payload. The sharing worked out well and we had plenty of data for tracking purposes.

Around 10:20am we left the launch site and headed towards Herington. We planned to stop at a gas station Street Atlas USA had promised us, but it had gone out of business. Fortunately there was a Dairy Queen next door and several stopped in for some snacks. We stayed at the Dairy Queen until about 10:50am, soon after Traveler had burst (the first of the day).

As we left Herington, it became apparent Traveler would be down well before the others, and that we could chase it to its landing and still have time to make the other landings. With the capsule reporting about once per minute, it was difficult to dead-reckon the reports into where to look. We chased north of Highway 4 on some gravel roads and pulled up parallel to Traveler's track about 1/2 mile to the west. To my knowledge, none of us saw it touch down at 11:11 am CDT.

Seeing that Traveler was in a relatively safe area with its own chase team going for the recovery, we then took a look at what else was happening. While we were chasing Traveler on its terminal descent, EOSS and TVNSP had b urst shortly before 11am. Both were coming down in close proximity to each other, with TVNSP about three minutes lower. We got back on Hwy 4 westbound and headed for Hope and then Elmo, KS. Enroute to Hope, we saw that NSTAR had burst at 11:25 at an altitude of 81,978 ft. With the light winds all from the SSE below about 30,000 ft, the end part of the chase was relatively easy. We turned north on Hwy 15 and began considering where to stop to see TVNSP land.

As we stopped on 15, TVNSP was crossing over the road and from the track looked as though it would land nearby. I got out of the car and was able to see TVNSP at about 1000 ft AGL. At times it appeared it would stop moving north, so I hopped the fence with my camera thinking maybe I could run a couple hundred yards and catch it. But then it took off to the north again and landed a few hundred yards away at 11:44am in what looked like a good area.

With the second payload on the ground, my attention turned to EOSS on nearly the same track. Since I had a good vantage point, I decided to stay in place and look for the EOSS payload. Sure enough, within a minute or two it was also visible and it landed a little farther away at 11:47am.

Now it was NSTAR's turn. Actually, it looked like it too would land not far away. Using the just-completed descents of the other two payloads, I surmised the landing would be west and a bit north of the EOSS landing. We went north to the next county road and then west a mile.

Suddenly, APRSPlus locked up on me with NSTAR still a couple of minutes from landing. I couldn't close the program and a bit later lost the OS. Great - a chance for another "catch" and I'm without data for the last few minutes.

Paul KC0KXR and Doug KA0O both had APRSPlus, so after some frantic running back and forth we made another adjustment for our vantage point.

We stopped on a gravel road on the next section boundary west of the EOSS and TVNSP landings and got out to look for the parachute. There it was! About 1000 feet up, off to our SSE and headed our way. The payload was descending in a spiral manner and I thought maybe it would come close enough to us to catch the power lines next to the road. But it stopped short and fell into a corn field about 100 yds east of the road at 12:02pm CDT.

We found the landowner and got permission to get the payload. Everything was intact and operating - the corn even kept the payloads from hitting the ground. After we got back, Mike W5VSI and Rick N0KKZ joined us. We took a few pictures and then got on the radio to find out where to go next.

Don KA0JLF's payload had also come down nearby, about 10 minutes before NSTAR did. We got a general description of where it was and drove off that direction. Shortly we got a packet of the landing position and parked on the road next to the field it landed in. Soon most everyone had arrived and Don went off in search of his payload, which was also found intact.

Now the only one left to deal with was Mike KD0FW's ATV and simplex repeater. EOSS, with its extensive DF experience was already on the job. As we moved back east, we tried to key up the simplex repeater on 147.585 in the hopes of having a stronger signal to DF. Others were listening on the ATV carrier frequency. Since there were plenty of vehicles in the hunt, those of us with vehicles capable of hauling helium tanks went back to the airport to move them closer to Manhattan and save some time for Paul on Monday.

After getting the tanks, we headed for Junction City to leave film at Wal-Mart and sat down to get something to drink. While waiting on the 1-hour photo job, we found out that Mike's package had been successfully located and everyone was arriving at Cracker Barrel for a mid-afternoon lunch.

As it turned out, we could have flown from JNSC if our payloads had followed the same profile. Traveler would have landed between Fort Riley and the Milford Reservoir, and the rest would have been a few miles west of the reservoir. But it still would not have been safe to do so.

73 de Mark N9XTN

225. Garmin GPS-35 HVS Mod - Repost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 02:12:45 UTC
From: Harry M
Topic: 225 Message: 225

FYI

Just thought I'd share my GPS Mod page!

I added an internal preamp to my Garmin GPS-35HVS TracPak. This is the HVS (12v) version.
It is still in the vehicle and working great.

Harry
KC5TRB, Tulsa

* Reposted - I forgot the link in the original...DUH! *
http://www.gbronline.com/harrymue/gps/

226. Re: [GPSL] Re: first GPSL photos!

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 02:36:09 UTC
From: Zack Clobes
Topic: 215 Message: 226

We flew 600g.

----- Original Message -----
From: Don Pfister
To: GPSL@yahoogroups.com
Sent: Tuesday, July 09, 2002 5:11 PM
Subject: Re: [GPSL] Re: first GPSL photos!

I must say, I was very pleased with the 600/300 gram combination. I will be doing more testing with this in the near future.

Please correct me if I'm wrong. I think Project Traveler used a 600 gram and Mark wasn't yours an 800 gram?

Don

Mark Conner wrote:

> http://www.kd7lmo.net/gpsl2002.html
> >From left to right in the bottom three images on the page:
>
> HABITAT (2 balloons, 1 payload string)
> EOSS
> NSTAR
> Traveler
> KD0FW
> TVNSP
>
> I may have Traveler and KD0FW reversed - hard to tell. The red dot in
> the last photo is the PIBAL brought and released by EOSS.
>
> Additionally, EOSS, KD0FW, and TVNSP all flew 1200g balloons to the
> best of my knowledge.
>
> - Mark

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

227. Re: [GPSL] Re: ID all the balloonatics in group portrait

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 02:44:54 UTC
From: Don Pfister
Topic: 220 Message: 227

I can help some on the Symposium shot:

Outside left (from viewers standpoint) is Bob K0FPC Davis - with camera straps over shoulder. There is another gentleman between him and Paul. To Paul's left is Bill WB8ELK Brown. I don't remember the man's name with the beard (white). To his left is Doug KA0O Eubanks. To his left is K5IS, with N5IS in front of him. Next (to left of K5IS) is Marty (?) I think was his name tag. That's as far as I can recall in the back row.

In the front row to the far left in front of Paul, is Ralph. To his left is Harry KC5TRB M.(correct?)? To his left is K0ANI (correct?) (I think he was with NSTAR). I draw a blank next, but then it is Mark. And I don't recall the last gentleman. I'm not sure we met.

Sorry to those of you I didn't meet or if I got your name/call wrong. It was hectic at the launch for me and too many of you were too far way for me to see at dinner Saturday night. ;-)

My appologies to all. I am not trying to come off as a know it all or anything just a mental exercise - I sure need that. ;-) I'm sorry I didn't get to meet and speak with each of you. I would have liked to, and it would have helped that one brain cell that fires occationally. ;-)

You mentioned Mike Manes, I'm not sure who that is, can you point him out to me? Maybe that is the name I forgot? Between Bill and Doug?

I hope I got over 50% of the people I know right. ;-) That would be Bob, Paul, Bill, Ralph, Doug and Mark. ;-) Unless that brain cell dropped out again. ;-)

73 all!
Don

n1ltv wrote:

> > Is this the Group photo from the symposium or the launch?
>
> The symposium one. With this one it will be easier to
> pick out people without any doubt.
>
> If anyone can help ID the outside launch shot that's fine,
> too.

If I could find it again, I would like to test the eyes and I have to keep that brain cell awake at least 10% of the time just because. ;-)

228. Re: [GPSL] NSTAR 02-D (GPSL 2002) Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 02:55:54 UTC
From: Don Pfister
Topic: 224 Message: 228

Mark Conner wrote:

> A couple of minor problems soon cropped up.

I would like to note, in addtion to Mark's fine commentary. Shortly after launch one of the balloons, and I couldn't id it, came up under Project Traveler's payload and bumped it aside. I believe Zack reported on this too.

While I didn't see it, I was to amazed at the mid-air I did see, ;-) I was later told that the two balloons bumped also, maybe twice even. Did anyone else see this?

FWIW
Don

229. GPSL 2002 photo album

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 03:04:17 UTC
From: Mark Conner
Topic: 229 Message: 229

I've started a set of pictures at
http://members.cox.net/n9xtn/gpsl_2002_photos.html . There are 3
from Paul KD4STH's capsule, one showing other balloons below it.
I'll add more as I get time.

73 de Mark N9XTN

230. Re: [GPSL] NSTAR 02-D (GPSL 2002) Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 03:04:57 UTC
From: Don Pfister
Topic: 224 Message: 230

Mark Conner wrote:

> Don KA0JLF's payload had also come down nearby, about 10 minutes before
> NSTAR did. We got a general description of where it was and drove off that
> direction. Shortly we got a packet of the landing position and parked on
> the road next to the field it landed in. Soon most everyone had arrived and
> Don went off in search of his payload, which was also found intact.

I am guessing, from looking at the Excel sheets, that HABITAT SkyLab passed NSTAR on the way down? I seem to remember NSTAR bursting first. I am guessing this was due to the smaller chute and a faster decent rate? I'll have to look at the charts again.

Mark, was it the longer flight time that accounts for HABITAT being further west? Does anyone have the wind files from that day? By the time I thought about it they were already gone.

Ralph, I would like the email file attachment you offered, if you read this.

Thanks,
Don

231. Names, calls, etc., for symposium picture [help]

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 03:12:56 UTC
From: Ralph Wallio, W0RPK
Topic: 231 Message: 231

Attaching names, etc., to symposium picture at
http://www.kd7lmo.net/images/gpsl1.jpg

Kneeling left-to-right:

Ralph Wallio, W0RPK Indianola, Iowa (HABET)
Harry Mueller, KC5TRB Tulsa, Oklahoma
Paul McCrone, KC0KXR Bellevue, Nebraska (NSTAR)
He Unknown
Mark Conner, N9XTN Bellevue, Nebraska (NSTAR)
Michael Gray, KD7LMO Fountain Hills, Arizona (ANSR)

Standing left-to-right

Bob Davis, K0FPC Overland Park, Kansas
Larry Cerney, K?ANI Denver, Colorado (EOSS)
Paul Verhage, KD4STH Caldwell, Idaho (TVNSP)
Bill Brown, WB8ELK Huntsville, Alabama
Chuck Crist, W9IH Indianapolis, Indiana (WINDTRAX)
Doug Eubanks, KA0O Bellevue, Nebraska (NSTAR)
Bobette Doerrie, N5IS Booker, Texas
Jerry Doerrie, K5IS Booker, Texas
Marty Griffin, WA0GEH Highlands Ranch, Colorado (EOSS)
She unknown
Mike Manes, W5VS Littleton, Colorado (EOSS)
He unknown
Rick von Glahn, N?KKZ Parker, Colorado (EOSS)

At launch but not at symposium (somebody please post the post-launch group
picture so we can complete this list and tag names, etc., to the picture):

Don Pfister, KA0JLF Prairie Village, Kansas (HABITAT)
Mike Bogard, KD0FW Independence, Missouri (KCATVG)
Zack Clobes, W0ZC Hutchinson, Kansas (TRAVELER)
Jon Riley, AJ0NR Hutchinson, Kansas (TRAVELER)
Brenda Riley, KC0HKU Hutchinson, Kansas (TRAVELER)

I apologize for not being able to build a 100% complete list.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Documentation is an essential part of the system

232. Re: [GPSL] Names, calls, etc., for symposium picture [help]

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 03:31:27 UTC
From: Mark Conner
Topic: 231 Message: 232

> At launch but not at symposium (somebody please post the
post-launch group
> picture so we can complete this list and tag names, etc., to
the picture):

Now included at:
http://members.cox.net/n9xtn/gpsl_2002_photos.html

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how
efficient of you!" - Ambassador Londo Mollari, Babylon 5

233. Re: [GPSL] Names, calls, etc., for symposium picture [help]

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 04:16:14 UTC
From: Don Pfister
Topic: 231 Message: 233

Mark Conner wrote:

> > At launch but not at symposium (somebody please post the post-launch group
> > picture so we can complete this list and tag names, etc., to the picture):
>
> Now included at:
> http://members.cox.net/n9xtn/gpsl_2002_photos.html

Ok, on this one:
On the far left side, in the light blue shirt is Mike KD0FW and his wife Jackie (hope that is spelled right) in the white top. Ralph is in front of her kneeling (as a reference).

On the far right side, back row: I don't know who the first young man is but to his left, in the plaid shirt, is Andy W0AFQ Anderson. Next to Andy in the (GPSL 2001 and GPSL 2002 annual) vest - over the "HABITAT SkyLab" yellow team shirt (not GPSL 2002, that's why I got the vest ;-) is, Don KA0JLF Pfister (PFranc of KS, sorry about that ;-). Next to me also in the "HABITAT SkyLab - GPSL 2002" yellow team shirt is Charlie (nocall) Callahan. Next ot him (hiden) also in his "HABITAT SkyLab - GPSL 2002" yellow team shirt is Bob K0FPC Davis. Absent from our team (but he has the shirt ;-) is Dean (no call) Scott. (His grandmother passed away and the graveside service was Saturday). Unfortunately Andy joined us too late for Cris N0XZB Pfister (not in the photo but taking photos for us) to make his shirt. She had not only her "HABITAT SkyLab - GPSL 2002" yellow team shirt, but she also had her matching "HABITAT SkyLab - GPSL 2002" black team shorts. Can you tell she dressed us - figuratively that is. ;-)

I hope you all appreciate the humor I tried to put into that. Honestly, I (and I hope WE) really appreciated her inventiveness and giving attitude. (I think this should be worth one - "get out of the dog house" certificate). ;-) I sure need them as you can tell. ;-)

One thing I have been wanting to say, and I think this is a good time. IT WAS GREAT TO SEE ALL THE COUPLES! I'm not sure what the count was, but I think I count at least 7 if not 8 couples. I am sure I'm not the only one to say "Thanks" for that.

Don

I might note, what are you still reading this junk? It's from me why are you wasting your time reading this. ;-)
The little balloon chasers didn't get to make this flight due to prior commitments.

Ok, you are still reading so in a sense you asked for it. Two of our grandsons, Joey and Alex (brothers), have been on at least one of our chases, and in spirit several times. Here is a quick (ok too late for quick) story. I hope you enjoy,

cause I enjoy telling it.

When the boys parents were buying their house, the salesman gave the boys each a helium filled balloon. When walking to their car, Alex (the younger - 4 at the time I believe) lost his balloon. Up into the air it went and he started to cry. Older brother Joey (6 at the time if that brain cell is working at all), said "Alex you launched your balloon like Pawwa". Well the tears became a joyful grin. Next Joey turns to mom and dad and says "Hurry up! Let's go, we've got to go chase it!"

Enough for now. Okay too much. ;-)

234. IDing the symposium members

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 05:48:36 UTC
From: n1ltv
Topic: 231 Message: 234

> I apologize for not being able to build a 100% complete list.

It's a heck of a lot better situation than earlier today.

Thanks, Ralph

235. Post-launch group picture (help)

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 11:53:32 UTC
From: Ralph Wallio, W0RPK
Topic: 235 Message: 235

Names, etc., for post-launch group picture at
http://members.cox.net/n9xtn/gpsl_2002_photos.html

Kneeling in front left-to-right:

Ralph Wallio, W0RPK Indianola, Iowa (HABET)
Three small children of TRAVELER (not kneeling) (names?)
Paul McCrone, KC0KXR Bellevue, Nebraska (NSTAR)
KSU graduate student of Civil Engineering (name?)
Paul Verhage, KD4STH Caldwell, Idaho (TVNSP)
Mark Conner, N9XTN Bellevue, Nebraska (NSTAR)
Doug Eubanks, KA0O Bellevue, Nebraska (NSTAR)

Standing in rear left-to-right

Mike Bogard, KD0FW Independence, Missouri (KCATVG)
XYL Jackie Bogard (sp?)
XYL of Zack Clobes (name?)
Zack Clobes, W0ZC Hutchinson, Kansas (TRAVELER)
Brenda Riley, KC0HKU Hutchinson, Kansas (TRAVELER)
Jon Riley, AJ0NR Hutchinson, Kansas (TRAVELER)
She unknown (same as unknown in red blouse in symposium picture?)
Bill Brown, WB8ELK Huntsville, Alabama
Jerry Doerrie, K5IS Booker, Texas
Bobette Doerrie, N5IS Booker, Texas
Chuck Crist, W9IH Indianapolis, Indiana (WINDTRAX)
Local student (name?)
Bob Davis, K0FPC Overland Park, Kansas (HABITAT)
Marty Griffin, WA0GEH Highlands Ranch, Colorado (EOSS)
Charlie Callahan (HABITAT)
Don Pfister, KA0JLF Prairie Village, Kansas (HABITAT)
Andy Anderson, W0AFQ Lenexa, Kansas
He unknown

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
A little knowledge is a dangerous thing

236. Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 14:24:50 UTC
From: Mark Conner
Topic: 236 Message: 236

Our media coverage for GPSL consisted of the local (weekly?) newspaper coming out that morning. I found on Google a listing for the following paper:

HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211

If no one's already arranged for this, I'd like to call them and get a few copies. Don, is this the correct paper?

- Mark

237. Laser Printers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 18:02:23 UTC
From: Harry M
Topic: 237 Message: 237

I am in the market for a laser printer and would like some recomendations.
I would like to use it for PCB and decal work.

Thanks!

Harry, KC5TRB

238. Re: [GPSL] Laser Printers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 18:12:43 UTC
From: Ralph Wallio, W0RPK
Topic: 237 Message: 238

After several years and cartridges and scores of paper reams of use my H-P L5 laser printer has been recently replaced with an H-P 1200 LaserJet. I am a very happy camper. It is highly rated by Consumer Reports. -w0rpk

----- Original Message -----
From: "Harry M" <harrymue@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, July 10, 2002 13:02 PM
Subject: [GPSL] Laser Printers

> I am in the market for a laser printer and would like some recomendations.
> I would like to use it for PCB and decal work.
>
> Thanks!
>
> Harry, KC5TRB

239. Re: [GPSL] Laser Printers

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-10 23:23:38 UTC
From: Harry M
Topic: 237 Message: 239

Thanks Ralph! I'll look into it.

Harry

> After several years and cartridges and scores of paper reams of use my H-P
> L5 laser printer has been recently replaced with an H-P 1200 LaserJet. I
am
> a very happy camper. It is highly rated by Consumer Reports. -w0rpk

240. Lithium packs?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 03:00:43 UTC
From: Don Pfister
Topic: 240 Message: 240

Do any of you still have the info on the surplus Lithium packs? USA Photo or something but all I remember is it was a mom & pop shop.

Thanks,
Don

241. family anecdote

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 05:41:39 UTC
From: n1ltv
Topic: 231 Message: 241

> Well the tears became a joyful grin. Next Joey turns to mom
> and dad and says "Hurry up! Let's go, we've got to
> go chase it!"

Don,

Thanks for sharing this little balloon story with us.

Hank

242. Re: [GPSL] Lithium packs?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 06:36:35 UTC
From: wb8elk@aol.com
Topic: 240 Message: 242

Hi Don,

It's S&G Photographic....you have to search their website for a bit to find the batteries....they are listed as BA5513 packs at the bottom of the following web page on their site, they are getting pretty pricey..(2 for $65).

http://www.sg-photo.com/batteries.htm

Their phone number is on their main page:

http://www.sg-photo.com

73s de Bill WB8ELK

243. Re: ID all the balloonatics in group portrait

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 06:42:13 UTC
From: n1ltv
Topic: 220 Message: 243

> You mentioned Mike Manes, I'm not sure who that is, can you
> point him out to me?

Don,

He's on the right in back with the mike clipped to his
shirt. He's the president of EOSS.

> Maybe that is the name I forgot? Between Bill and Doug?

Ralph says that's Chuck Crist, founder of Windtrax.

Hank

244. Re: [GPSL] Lithium packs?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 12:34:06 UTC
From: Ralph Wallio, W0RPK
Topic: 240 Message: 244

The long-standing source of surplus lithium battery packs is:

S&G Photographic
618 S. 62nd Street
Philadelphia, PA 19143
215-474-7663

Each package contains 10 lithium sulfur dioxide (LiSO2) cells that were manufactured by SAFT using the following model numbers:

Old military pack designation: BA-5513/U
Current military designation: BA-5590/U
SAFT cell model: LO26SX

Cells were manufactured in France. Packs were assembled in the USA.

Weight: 85g per cell
Maximum continuous current: 4000ma

At 240ma these cells are spec'ed for 7500mah; at 720ma, 5400mah.

These packs and cells were manufactured in 1986. If stored properly they should have been dependable for 10 years or 1996. Bench testing back in 1996 found them to exceed new cell spec's, e.g., they did not need to be derated due to age. Today, 6 years later, they are all suspect so one cell in each pack should be bench tested to depletion to understand energy capacity today.

Back in 1994 I paid $12.50 per pack for less than a case of 10 packs and $10.00 per pack for a full unopened case. Bill Brown replied on this net with the S&G URL and current price of $65/pack!

HOWEVER Fair Radio Sales, www.fairradio.com, has similar (but only 5 cells) LiSO2 packs in their current 2002 catalog for $4.00 each, 2 for $6.50, 24 for $50.00. These are military BB-5598/U packs with 1995 expiration dates (manufacture date October 1990). Each pack contains *FIVE* LiSO2 cells and are thoroughly discussed at http://www.pacificsites.com/~brooke/2577Battery.shtml. This appears to be a very good deal which is cheaper per cell than the original S&G price.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Results may not be reproducible

----- Original Message -----
From: "Don Pfister" <ka0jlf@...>
To: <GPSL@yahoogroups.com>

Sent: Wednesday, July 10, 2002 22:00 PM
Subject: [GPSL] Lithium packs?

> Do any of you still have the info on the surplus Lithium packs? USA Photo
or
> something but all I remember is it was a mom & pop shop.
>
> Thanks,
> Don

245. Re: [GPSL] Lithium packs?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 14:57:30 UTC
From: Ralph Wallio, W0RPK
Topic: 240 Message: 245

Typo alert. Make that $65 for -2- packs from S&G. Bill's info is correct.
Regardless, the Fair Radio offering is substantially less expensive.

Perhaps the reason S&G has radically increased their price is their Mini
Marvel flash battery pack that uses "2 D-Cell sized lithium batteries" and
sells for $50.

-w0rpk

>
> Back in 1994 I paid $12.50 per pack for less than a case of 10 packs and
> $10.00 per pack for a full unopened case. Bill Brown replied on this net
> with the S&G URL and current price of $65/pack!
>

246. Re: [GPSL] family anecdote

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 16:45:39 UTC
From: Don Pfister
Topic: 231 Message: 246

You are welcome, I'm surprised anyone got that far down to read it. ;-)

n1ltv wrote:

> > Well the tears became a joyful grin. Next Joey turns to mom
> > and dad and says "Hurry up! Let's go, we've got to
> > go chase it!"
>
> Don,
>
> Thanks for sharing this little balloon story with us.
>
> Hank
>

247. Re: [GPSL] Lithium packs?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 16:50:53 UTC
From: Don Pfister
Topic: 240 Message: 247

Thanks Bill, after a couple hours of searching - I get sidetracked easily - I only found the address on one of EOSS's page (thanks to them). I never did find a web page for S&G. Now I have it bookmarked.

I plan to fly my ATV (90 mw barefoot) on my next flight as a test of the ATV system. On a future flight I will fly my amp with it. This is mainly what I'm wanting the batteries for. So I should have some time to order them.

Thanks,
Don

wb8elk@... wrote:

> Hi Don,
>
> It's S&G Photographic....you have to search their website for a bit to find
> the batteries....they are listed as BA5513 packs at the bottom of the
> following web page on their site, they are getting pretty pricey..(2 for $65).
>
> http://www.sg-photo.com/batteries.htm
>
> Their phone number is on their main page:
>
> http://www.sg-photo.com
>
> 73s de Bill WB8ELK

248. Re: [GPSL] Re: ID all the balloonatics in group portrait

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 16:59:52 UTC
From: Don Pfister
Topic: 220 Message: 248

OH Thanks! Sorry Mike and Chuck!

I was on EOSS's web pages last night and saw your name (again, and read some of your comments). It should have clicked but, honestly, it didn't until just now when Hank corrected me. While we didn't get to talk, directly, you were only a few seats down from me at dinner (after the recovery Saturday).

I didn't get to meet, or see, Chuck - at least I don't remember it. Sorry.

Thanks Hank!

n1ltv wrote:

> > You mentioned Mike Manes, I'm not sure who that is, can you
> > point him out to me?
>
> Don,
>
> He's on the right in back with the mike clipped to his
> shirt. He's the president of EOSS.
>
> > Maybe that is the name I forgot? Between Bill and Doug?
>
> Ralph says that's Chuck Crist, founder of Windtrax.
>
> Hank

249. Re: [GPSL] Lithium packs?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-11 17:08:37 UTC
From: Don Pfister
Topic: 240 Message: 249

"Ralph Wallio, W0RPK" wrote:

> Perhaps the reason S&G has radically increased their price is their Mini
> Marvel flash battery pack that uses "2 D-Cell sized lithium batteries" and
> sells for $50.

First thanks for all the info Ralph. I bought my last packs from S&G, probably about 6 years ago. It seems to me, they said something then about their supply declining. Also, the supply not being renewable, so prices would go up as the supply ran down. The competing product probably only helps that. ;-)

> > Back in 1994 I paid $12.50 per pack for less than a case of 10 packs and

I think that is about when I bought my last ones, and about the same price. Maybe it was '95 or '96 and $15 a pack.

Anyway, thanks!

250. HABITAT SkyLab info

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-12 02:42:16 UTC
From: Don Pfister
Topic: 250 Message: 250

I know I received a couple requests for capsule and balloon info. I am not ignoring anyone, just haven't gathered the data to reply. I'll try to gather it tomorrow and reply, with it, for all to use.

Thanks,
Don

251. SA lat/long file?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-12 15:46:16 UTC
From: Don Pfister
Topic: 251 Message: 251

Has anyone already created a lat/long file for SA from all the flight logs? If not I'll try to
build one today. Our local club meeting is tonight. I thought it would make a good visual.

73 de Don
KA0JLF

252. Update on GPSL photo names

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-12 16:16:45 UTC
From: Ralph Wallio, W0RPK
Topic: 252 Message: 252

Update on names, etc., to symposium picture at
http://www.kd7lmo.net/images/gpsl1.jpg

Kneeling left-to-right:

Ralph Wallio, W0RPK Indianola, Iowa (HABET)
Harry Mueller, KC5TRB Tulsa, Oklahoma
Paul McCrone, KC0KXR Bellevue, Nebraska (NSTAR)
Jim Lamb, W5GAF Panhandle, Texas
Mark Conner, N9XTN Bellevue, Nebraska (NSTAR)
Michael Gray, KD7LMO Fountain Hills, Arizona (ANSR)

Standing left-to-right:

Bob Davis, K0FPC Overland Park, Kansas
Larry Cerney, K?ANI Denver, Colorado (EOSS)
Paul Verhage, KD4STH Caldwell, Idaho (TVNSP)
Bill Brown, WB8ELK Huntsville, Alabama
Chuck Crist, W9IH Indianapolis, Indiana (WINDTRAX)
Doug Eubanks, KA0O Bellevue, Nebraska (NSTAR)
Bobette Doerrie, N5IS Booker, Texas (REACH FOR SPACE)
Jerome Doerrie, K5IS Booker, Texas (REACH FOR SPACE)
Marty Griffin, WA0GEH Highlands Ranch, Colorado (EOSS)
Mary VanWinkle, KC5UNW Seiling, Oklahoma
Mike Manes, W5VS Littleton, Colorado (EOSS)
He unknown
Rick von Glahn, N?KKZ Parker, Colorado (EOSS)

Update on names, etc., for post-launch group picture at
http://members.cox.net/n9xtn/gpsl_2002_photos.html

Kneeling in front left-to-right:

Ralph Wallio, W0RPK Indianola, Iowa (HABET)
Three small children of TRAVELER (not kneeling) (names?)
Paul McCrone, KC0KXR Bellevue, Nebraska (NSTAR)
Ankur Verma, KSU graduate student of Civil Engineering
Paul Verhage, KD4STH Caldwell, Idaho (TVNSP)
Mark Conner, N9XTN Bellevue, Nebraska (NSTAR)
Doug Eubanks, KA0O Bellevue, Nebraska (NSTAR)

Standing in rear left-to-right:

Mike Bogard, KD0FW Independence, Missouri (KCATVG)
XYL Jackie Bogard (sp?)
XYL of Zack Clobes (name?)
Zack Clobes, W0ZC Hutchinson, Kansas (TRAVELER)

Brenda Riley, KC0HKU Hutchinson, Kansas (TRAVELER)
Jon Riley, AJ0NR Hutchinson, Kansas (TRAVELER)
Mary VanWinkle, KC5UNW Seiling, Oklahoma
Bill Brown, WB8ELK Huntsville, Alabama
Jerome Doerrie, K5IS Booker, Texas (REACH FOR SPACE)
Bobette Doerrie, N5IS Booker, Texas (REACH FOR SPACE)
Jim Lamb, W5GAF Panhandle, Texas
Local student (name?)
Bob Davis, K0FPC Overland Park, Kansas (HABITAT)
Marty Griffin, WA0GEH Highlands Ranch, Colorado (EOSS)
Charlie Callahan (HABITAT)
Don Pfister, KA0JLF Prairie Village, Kansas (HABITAT)
Andy Anderson, W0AFQ Lenexa, Kansas
He unknown

Please look close and offer additions and corrections.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Defect prevention is better than cure

253. More GPSL Photos

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-13 00:15:56 UTC
From: KC0KXR@aol.com
Topic: 253 Message: 253

Hello all.

I put a web page together with my photos from GPSL2002. Here's the link.

http://zephyr.unl.edu/~pmccrone/hamradio/GPSL/2002/

My APRS logs are linked at the end of this page. If you like any pix, feel
free to use them.

==========
73 DE KC0KXR
Paul McCrone
Bellevue, Nebraska
NSTAR Member
KC0KXR@...
==========

254. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-13 00:25:48 UTC
From: Don Pfister
Topic: 236 Message: 254

Anyone remember his name from the reporter? I'll give them a call.

Mark Conner wrote:

> Our media coverage for GPSL consisted of the local (weekly?) newspaper
> coming out that morning. I found on Google a listing for the following
> paper:
>
> HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211
>
> If no one's already arranged for this, I'd like to call them and get a
> few copies. Don, is this the correct paper?
>
> - Mark

255. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-13 04:51:39 UTC
From: Doug Eubanks
Topic: 236 Message: 255

J.R. Sparke
785-258-2211
----- Original Message -----
From: Don Pfister
To: GPSL@yahoogroups.com
Sent: Friday, July 12, 2002 7:25 PM
Subject: Re: [GPSL] Herington newspaper

Anyone remember his name from the reporter? I'll give them a call.

Mark Conner wrote:

> Our media coverage for GPSL consisted of the local (weekly?) newspaper
> coming out that morning. I found on Google a listing for the following
> paper:
>
> HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211
>
> If no one's already arranged for this, I'd like to call them and get a
> few copies. Don, is this the correct paper?
>
> - Mark

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256. Data compilation

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-14 04:05:58 UTC
From: Mark Conner
Topic: 256 Message: 256

I've uploaded a zip file to:
http://groups.yahoo.com/group/GPSL/files/GPSL2002Logs/N9XTNcompil
ation.zip

This has an Excel spreadsheet with the data broken out into
different worksheets, plus separate text files containing each
group's data. I was not able to exhaustively merge all the
telemetry data due to differences in time-stamping, etc. But the
position data is as complete as I could get it.

There are a couple of Street Atlas USA files in there too with
the tracks. I'll update the Excel file later on as I parse the
data.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how
efficient of you!" - Ambassador Londo Mollari, Babylon 5

257. PCB Question

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-15 18:28:06 UTC
From: paul.verhage@boiseschools.org
Topic: 203 Message: 257

Don, I use Ares Lite to design the copper mask. I've built a UV table to shoot the boards and use Kepro products. I have an article about the entire process in Circuit Cellar Inc, Dec 2000.

Paul

258. GPSL 2002 and 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-15 19:13:40 UTC
From: paul.verhage@boiseschools.org
Topic: 258 Message: 258

Is anyone writing an article on the launch for a magazine. If not, then I'll start one. But I want to give someone else a chance first.

It will cost $8 to make and send a duplicate set of photos from my capsule. I had about 6 people say they wanted a set. Please confirm that you're still interested at $8 a set. It will take about a week to get them made and mailed.

What is the interest level in 2003? Are we interested in just launching? What about talks? the date is set for 5 July 2003. I'll at least arrange for a dinner on the 4th. There should be a fireworks display in Cico park that night.

I'd still like to hold GPSL 2003 in Kansas. Is this going to be a problem for anyone?

Paul

259. International Near Space Year

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-15 19:59:13 UTC
From: paul.verhage@boiseschools.org
Topic: 259 Message: 259
Attachments: 2 described; binary payloads are missing from this source WARC

Here's a proposal I brought up at GPSL. I'm forwarding it to as many balloon groups as I can locate. Please look it over and let me know what you think.

I'd like to celebrate IGY's 50th birthday with a coordinated program of balloon and rocket launches.

Paul Verhage

260. GPSL Patch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-15 20:03:17 UTC
From: paul.verhage@boiseschools.org
Topic: 260 Message: 260
Attachments: 2 described; binary payloads are missing from this source WARC

I'm attaching the GPSL 2002 patch.

Don, can you pass this on to your wife and ask her to give us an estimate as to making an embroidered patch?

How many people would be interested in getting a GPSL patch?

Thanks,
Paul

261. Re: [GPSL] GPSL Patch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-15 19:21:29 UTC
From: Don Pfister
Topic: 260 Message: 261

Paul, what file format is that? I'm not sure I have anything that can open it.

paul.verhage@... wrote:

> I'm attaching the GPSL 2002 patch.
>
> Don, can you pass this on to your wife and ask her to give us an
> estimate as to making an embroidered patch?
>
> How many people would be interested in getting a GPSL patch?
>
> Thanks,
> Paul

262. Re: [GPSL] GPSL Patch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-16 04:49:06 UTC
From: wb8elk@aol.com
Topic: 260 Message: 262

Paul,

Sign me up for a patch...also, I'd love a T-shirt like you were wearing....let me know what it'd take to get one made?...maybe others might be interested as well.

73s de Bill WB8ELK

263. Re: [GPSL] GPSL 2002 and 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-15 21:55:42 UTC
From: Michael Gray
Topic: 258 Message: 263

Some of the EOSS group expressed interest in having GPSL 2003 in Colorado.
I would like to consider Colorado just to move it around, but ANSR will
probalby go where ever it is held.

Thanks again Paul for your efforts in putting GPSL 2002 together.

At 12:13 PM 7/15/2002 -700, you wrote:
>Is anyone writing an article on the launch for a magazine. If not,
>then I'll start one. But I want to give someone else a chance first.
>
>It will cost $8 to make and send a duplicate set of photos from my
>capsule. I had about 6 people say they wanted a set. Please
>confirm that you're still interested at $8 a set. It will take about a
>week to get them made and mailed.
>
>What is the interest level in 2003? Are we interested in just
>launching? What about talks? the date is set for 5 July 2003. I'll
>at least arrange for a dinner on the 4th. There should be a
>fireworks display in Cico park that night.
>
>I'd still like to hold GPSL 2003 in Kansas. Is this going to be a
>problem for anyone?
>
>Paul
>
>
>To unsubscribe from this group, send an email to:
>GPSL-unsubscribe@yahoogroups.com
>
>
>
>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

264. Re: [GPSL] GPSL Patch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-16 16:40:43 UTC
From: Harry M
Topic: 260 Message: 264

Paul, I can't display the attached patch file either!

Harry, KC5TRB

> I'm attaching the GPSL 2002 patch.
>

265. Ascent Graph

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-16 21:32:37 UTC
From: paul.verhage@boiseschools.org
Topic: 265 Message: 265

Has anyone plotted a graph showing altitudes vs time for the GPSL flights? I'd like to get a copy of that for the proceedings. I'll copy Mark's SA gif of the flight paths.

I need everyone's presentation notes. I have some at home. I'll bring a list of what I have tomorrow.

Paul

266. Re: [GPSL] Ascent Graph

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-16 23:34:12 UTC
From: Mark Conner
Topic: 265 Message: 266

Check http://groups.yahoo.com/group/GPSL/message/202 for Ralph's
graphs he posted right afterwards.

- Mark

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, July 16, 2002 16:32
Subject: [GPSL] Ascent Graph

> Has anyone plotted a graph showing altitudes vs time for the
GPSL
> flights? I'd like to get a copy of that for the proceedings.
I'll copy
> Mark's SA gif of the flight paths.
>
> I need everyone's presentation notes. I have some at home.
I'll
> bring a list of what I have tomorrow.
>
> Paul

267. Addendum for my web page.

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-17 06:09:02 UTC
From: KC0KXR@aol.com
Topic: 267 Message: 267

Hello all. I received a few emails regarding my web page - I guess some folks have had trouble with it. A couple things:

-The original page works best in Internet Explorer. It won't work well in Netscape.

- I guess the graphics are just too big for people on dial up. I put together a web page that links reduced size graphics files. It's not a fancy web page - it just gets you to the photos. It's linked below:

http://zephyr.unl.edu/~pmccrone/hamradio/GPSL/2002/small/

Thanks to Mark Conner-N9XTN- who had a software package that took all my big JPG files and reduced the file sizes easily. I was dreading doing this manually! Thanks Mark.

==========
73 DE KC0KXR
Paul McCrone
Bellevue, Nebraska
NSTAR Member
KC0KXR@...
==========

268. Re: [GPSL] Addendum for my web page.

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-17 16:25:57 UTC
From: Don Pfister
Topic: 267 Message: 268

Paul thanks for the new web page - Great Photos!! I'm glad I got to see them.

73 Don

What program did Mark use?

KC0KXR@... wrote:

> Hello all. I received a few emails regarding my web page - I guess some
> folks have had trouble with it. A couple things:
>
> -The original page works best in Internet Explorer. It won't work well in
> Netscape.
>
> - I guess the graphics are just too big for people on dial up. I put
> together a web page that links reduced size graphics files. It's not a fancy
> web page - it just gets you to the photos. It's linked below:
>
> http://zephyr.unl.edu/~pmccrone/hamradio/GPSL/2002/small/
>
> Thanks to Mark Conner-N9XTN- who had a software package that took all my big
> JPG files and reduced the file sizes easily. I was dreading doing this
> manually! Thanks Mark.
>
> ==========
> 73 DE KC0KXR
> Paul McCrone
> Bellevue, Nebraska
> NSTAR Member
> KC0KXR@...
> ==========

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

269. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-17 16:49:52 UTC
From: Don Pfister
Topic: 236 Message: 269

I talked to J.R. he said they ran an article with 3 photos. He wants to know how many copies we want and where to send them to. I told him I thought tear sheets were ok, not the whole issue, is that right?

How do you want to do this? You want them sent to me and then I will send them to you or should we just have them mail them out. I didn't ask about cost yet, I thought until we could answer how many, the cost wouldn't matter much. I'm afraid a qty would make a difference.

Let me know,
Don

Doug Eubanks wrote:

> J.R. Sparke785-258-2211
>
> ----- Original Message -----
> From: Don Pfister
> To: GPSL@yahoogroups.com
> Sent: Friday, July 12, 2002 7:25 PM
> Subject: Re: [GPSL] Herington newspaper
> Anyone remember his name from the reporter? I'll give them a call.
>
> Mark Conner wrote:
>
> > Our media coverage for GPSL consisted of the local (weekly?)
> newspaper
> > coming out that morning. I found on Google a listing for the
> following
> > paper:
> >
> > HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211
>
> >
> > If no one's already arranged for this, I'd like to call them and
> get a
> > few copies. Don, is this the correct paper?
> >
> > - Mark
>

270. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-17 19:21:36 UTC
From: n9xtn@cox.net
Topic: 236 Message: 270

Sending complete papers might be easier for them to do, as would sending them to one address. My thought would be to have them send a dozen or so to you and then we send you a couple of bucks to mail them individually to us.

I don't need the whole paper if they're willing to do the tear sheets, however.

- Mark

----- Original Message -----
From: Don Pfister <ka0jlf@...>
Date: Wednesday, July 17, 2002 11:49 am
Subject: Re: [GPSL] Herington newspaper

> I talked to J.R. he said they ran an article with 3 photos. He
> wants to know how
> many copies we want and where to send them to. I told him I
> thought tear sheets
> were ok, not the whole issue, is that right?
>
> How do you want to do this? You want them sent to me and then I
> will send them
> to you or should we just have them mail them out. I didn't ask
> about cost yet, I
> thought until we could answer how many, the cost wouldn't matter
> much. I'm
> afraid a qty would make a difference.
>
> Let me know,
> Don
>
> Doug Eubanks wrote:
>
> > J.R. Sparke785-258-2211
> >
> > ----- Original Message -----
> > From: Don Pfister
> > To: GPSL@yahoogroups.com
> > Sent: Friday, July 12, 2002 7:25 PM
> > Subject: Re: [GPSL] Herington newspaper
> > Anyone remember his name from the reporter? I'll give them
> a call.
> >
> > Mark Conner wrote:
> >
> > > Our media coverage for GPSL consisted of the local (weekly?)
> > newspaper

> > > coming out that morning. I found on Google a listing for the
> > following
> > > paper:
> > >
> > > HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-
> 258-2211
> >
> > >
> > > If no one's already arranged for this, I'd like to call
> them and
> > get a
> > > few copies. Don, is this the correct paper?
> > >
> > > - Mark
> >
>
>

271. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 03:53:15 UTC
From: Jon M. Riley
Topic: 236 Message: 271

I would like to have a copy. My address is: 1632 Baker
Hutchinson, Ks. 67501

Thank you.
Jon Riley
----- Original Message -----
From: Don Pfister
To: GPSL@yahoogroups.com
Sent: Wednesday, July 17, 2002 11:49 AM
Subject: Re: [GPSL] Herington newspaper

I talked to J.R. he said they ran an article with 3 photos. He wants to know how many copies we want and where to send them to. I told him I thought tear sheets were ok, not the whole issue, is that right?

How do you want to do this? You want them sent to me and then I will send them to you or should we just have them mail them out. I didn't ask about cost yet, I thought until we could answer how many, the cost wouldn't matter much. I'm afraid a qty would make a difference.

Let me know,
Don

Doug Eubanks wrote:

> J.R. Sparke785-258-2211
>
> ----- Original Message -----
> From: Don Pfister
> To: GPSL@yahoogroups.com
> Sent: Friday, July 12, 2002 7:25 PM
> Subject: Re: [GPSL] Herington newspaper
> Anyone remember his name from the reporter? I'll give them a call.
>
> Mark Conner wrote:
>
> > Our media coverage for GPSL consisted of the local (weekly?)
> newspaper
> > coming out that morning. I found on Google a listing for the
> following
> > paper:
> >
> > HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211
>
> >
> > If no one's already arranged for this, I'd like to call them and

> get a
> > few copies. Don, is this the correct paper?
> >
> > - Mark
>

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272. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 04:05:07 UTC
From: Don Pfister
Topic: 236 Message: 272

Actually J.R. suggested the tear sheets.

Unless I hear different before tomorrow, I'll call and order 12 copies, that will be 2 copies per group (just a quick guess). Unless the price is outlandish. If the price is unexpected I'll consult the group again before
continuing.

Don

n9xtn@... wrote:

> Sending complete papers might be easier for them to do, as would sending them to one address. My thought would be to have them send a dozen or so to you and then we send you a couple of bucks to mail them individually to us.
>
> I don't need the whole paper if they're willing to do the tear sheets, however.
>
> - Mark
>
> ----- Original Message -----
> From: Don Pfister <ka0jlf@...>
> Date: Wednesday, July 17, 2002 11:49 am
> Subject: Re: [GPSL] Herington newspaper
>
> > I talked to J.R. he said they ran an article with 3 photos. He
> > wants to know how
> > many copies we want and where to send them to. I told him I
> > thought tear sheets
> > were ok, not the whole issue, is that right?
> >
> > How do you want to do this? You want them sent to me and then I
> > will send them
> > to you or should we just have them mail them out. I didn't ask
> > about cost yet, I
> > thought until we could answer how many, the cost wouldn't matter
> > much. I'm
> > afraid a qty would make a difference.
> >
> > Let me know,
> > Don
> >
> > Doug Eubanks wrote:
> >
> > > J.R. Sparke785-258-2211
> > >
> > > ----- Original Message -----

> > > From: Don Pfister
> > > To: GPSL@yahoogroups.com
> > > Sent: Friday, July 12, 2002 7:25 PM
> > > Subject: Re: [GPSL] Herington newspaper
> > > Anyone remember his name from the reporter? I'll give them
> > a call.
> > >
> > > Mark Conner wrote:
> > >
> > > > Our media coverage for GPSL consisted of the local (weekly?)
> > > newspaper
> > > > coming out that morning. I found on Google a listing for the
> > > following
> > > > paper:
> > > >
> > > > HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-
> > 258-2211
> > > >
> > > >
> > > > If no one's already arranged for this, I'd like to call
> > them and
> > > > get a
> > > > few copies. Don, is this the correct paper?
> > > >
> > > > - Mark

273. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 12:59:54 UTC
From: Harry M
Topic: 236 Message: 273

I would like a copy Don. Either full copy or tear is ok.
Let me know what the final cost is.

Harry, KC5TRB

H.H. Mueller
3307 E. Haskell Place
Tulsa, Ok 74115
---

274. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 14:48:28 UTC
From: wb8elk@aol.com
Topic: 236 Message: 274

I'd be interested in a copy ... let me know the cost.

Thanks,

Bill Brown WB8ELK

275. Articles?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 18:00:15 UTC
From: paul.verhage@boiseschools.org
Topic: 275 Message: 275

Hank brings up a good point. Has anyone started writing
something about GPSL 2002? QST has asked me to send
something in, but that's no guarentee that it will be published.
Hanks has offered to write up something, how about everyone
else? Was something written for QRZ?

> I'm wondering if you or anyone you may have selected will
> be doing an official writeup of GPSL for dissemination
> to the usual ham radio media suspects such as QST,
> ARRL newsletter, CQ, CQ VHF, ATV magazine (whatever the
> exact name is), etc.

Paul

276. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 18:03:23 UTC
From: paul.verhage@boiseschools.org
Topic: 236 Message: 276

Send one to me!!!!

Paul Verhage
207 Crestline #3
Caldwell, ID 83605

> I talked to J.R. he said they ran an article with 3 photos. He wants to know how
> many copies we want and where to send them to. I told him I thought tear sheets
> were ok, not the whole issue, is that right?
>
> How do you want to do this? You want them sent to me and then I will send them
> to you or should we just have them mail them out. I didn't ask about cost yet, I
> thought until we could answer how many, the cost wouldn't matter much. I'm
> afraid a qty would make a difference.
>
> Let me know,
> Don
>
> Doug Eubanks wrote:
>
> > J.R. Sparke785-258-2211
> >
> > ----- Original Message -----
> > From: Don Pfister
> > To: GPSL@yahoogroups.com
> > Sent: Friday, July 12, 2002 7:25 PM
> > Subject: Re: [GPSL] Herington newspaper
> > Anyone remember his name from the reporter? I'll give them a call.
> > >
> > > Mark Conner wrote:
> > >
> > > > Our media coverage for GPSL consisted of the local (weekly?)
> > newspaper
> > > > coming out that morning. I found on Google a listing for the
> > following
> > > > paper:
> > > >
> > > > HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211
> > >
> > > >
> > > > If no one's already arranged for this, I'd like to call them and
> > get a
> > > > few copies. Don, is this the correct paper?
> > > >
> > > > - Mark

> >
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
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>
>

277. T-Shirt Cost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 18:34:23 UTC
From: paul.verhage@boiseschools.org
Topic: 277 Message: 277

If we order t-shirts, they'll cost about $28 each. These are t-shirts that are cotton on the inside and polyester on the outside (not your normal Hanes). The artwork is sublimated on, not screen printed. The level of deatail and color is much better this way.

Is anyone still interested in GPSL 2002 t-shirts when they cost $28?

Paul

278. Patches

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 18:35:46 UTC
From: paul.verhage@boiseschools.org
Topic: 278 Message: 278

Don's wife will give us an estimate on GPSL patches. That will be a second option if you don't want a t-shirt.

Paul

279. Re: [GPSL] Articles?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 19:16:53 UTC
From: Gene Harlan
Topic: 275 Message: 279

Yes, do not forget "ATV magazine (whatever....)". The summer issue just went to press, and has a little that says "More coming....", so make sure we get it!

Thanks. Sounds like everyone had a great time.

Gene Harlan - WB9MMM
Harlan Technologies - publisher of
OSCAR Satellite Report - OSR@...
Amateur Television Quarterly - ATVQ@...
http://www.hampubs.com

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 18, 2002 1:00 PM
Subject: [GPSL] Articles?

Hank brings up a good point. Has anyone started writing something about GPSL 2002? QST has asked me to send something in, but that's no guarentee that it will be published. Hanks has offered to write up something, how about everyone else? Was something written for QRZ?

> I'm wondering if you or anyone you may have selected will
> be doing an official writeup of GPSL for dissemination
> to the usual ham radio media suspects such as QST,
> ARRL newsletter, CQ, CQ VHF, ATV magazine (whatever the
> exact name is), etc.

Paul

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GPSL-unsubscribe@yahoogroups.com

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280. Re: [GPSL] T-Shirt Cost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 19:31:51 UTC
From: Harry M
Topic: 277 Message: 280

Paul, put me in for one shirt.
Should I send the $$$ to this address.

Paul Verhage
207 Crestline #3
Caldwell, ID 83605

Harry
KC5TRB

> If we order t-shirts, they'll cost about $28 each.

281. Re: [GPSL] T-Shirt Cost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-18 21:48:06 UTC
From: Zack Clobes
Topic: 277 Message: 281

That's a bit pricey for my tastes.... Are there any other options (besides patches)?
----- Original Message -----
From: paul.verhage@boiseschools.org
To: GPSL@yahoogroups.com
Sent: Thursday, July 18, 2002 1:34 PM
Subject: [GPSL] T-Shirt Cost

If we order t-shirts, they'll cost about $28 each. These are t-shirts
that are cotton on the inside and polyester on the outside (not your
normal Hanes). The artwork is sublimated on, not screen printed.
The level of deatail and color is much better this way.

Is anyone still interested in GPSL 2002 t-shirts when they cost
$28?

Paul

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282. Re: [GPSL] T-Shirt Cost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 04:57:19 UTC
From: wb8elk@aol.com
Topic: 277 Message: 282

Hi Paul,

Sounds good to me...sign me up for one.

- Bill WB8ELK

283. Symposiunm Group Picture

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 16:33:40 UTC
From: Harry M
Topic: 283 Message: 283

An update to the GPSL symposium group picture.
I believe the "He unknown", standing on the right, is Keith Koop K0OP from Wichita, formerly WB0WVU.
He was to have heart surgery on Monday following GPSL. Does anyone know how his surgery went?

Harry
KC5TRB

284. GPSL 2002 should issue an official press release soon; it's overdue

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 20:22:41 UTC
From: n1ltv
Topic: 275 Message: 284

Paul,

I'd like to clarify what I think should be done w/r/t
writeups of GPSL.

In email to you I used the term "article" which may suggest
a fairly long piece, but at this point in the short term
I'm actually thinking of something more along the lines of
a press release which would summarize the high points of
the symposium.

My opinion is that this should issue from *you* specifically,
or someone who was in attendance at GPSL that you might
designate.

I feel this is a function of the event organizers that is
just about as important as getting the helium or returning
the empty cylinders. For days there was no word about even
such basic facts as how many balloons were launched and who
they belonged to. That led to my plea, saved as message
#210 on this list archive, for basic information about what
happened at GPSL 2002.

Since it seems nothing concrete has happened at this time
two weeks after the event, I'm going to reluctantly start
putting together short items for the AMSAT newsletter and
QST. As someone who wasn't even there, I feel this is not
ideal, but *someone* must start to do *something*.

I would urge that the news function be formalized for
GPSL2003. Let's not drop the ball a third time.

Just to remind, I cajoled a bit last year to get GPSL 2001
pictures to QST, and they along with a caption composed by
Mark Conner were published in a nice QST "Upfront."

QST will never guarantee anything, but I think they'll
go for at least one good picture. GPSL2002 has tons of
good pictures which is really helping to show what went
on.

Hank

> Hank brings up a good point. Has anyone started writing
> something about GPSL 2002? QST has asked me to send
> something in, but that's no guarentee that it will be published.

> Hanks has offered to write up something, how about everyone
> else? Was something written for QRZ?
>
> > I'm wondering if you or anyone you may have selected will
> > be doing an official writeup of GPSL for dissemination
> > to the usual ham radio media suspects such as QST,
> > ARRL newsletter, CQ, CQ VHF, ATV magazine (whatever the
> > exact name is), etc.

285. Re: [GPSL] T-Shirt Cost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 22:27:06 UTC
From: paul.verhage@boiseschools.org
Topic: 277 Message: 285

Hold off sending money until I get all the orders.

Paul

> Paul, put me in for one shirt.
> Should I send the $$$ to this address.
>
> Paul Verhage
> 207 Crestline #3
> Caldwell, ID 83605
>
> Harry
> KC5TRB
>
>
> > If we order t-shirts, they'll cost about $28 each.
>
>
>
>
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> GPSL-unsubscribe@yahoogroups.com
>
>
>
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>
>

286. Re: [GPSL] T-Shirt Cost

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 22:29:25 UTC
From: paul.verhage@boiseschools.org
Topic: 277 Message: 286

No, just those two.

Paul

> That's a bit pricey for my tastes.... Are there any other options (besides patches)?
> ----- Original Message -----
> From: paul.verhage@...
> To: GPSL@yahoogroups.com
> Sent: Thursday, July 18, 2002 1:34 PM
> Subject: [GPSL] T-Shirt Cost
>
>
> If we order t-shirts, they'll cost about $28 each. These are t-shirts
> that are cotton on the inside and polyester on the outside (not your
> normal Hanes). The artwork is sublimated on, not screen printed.
> The level of deatail and color is much better this way.
>
> Is anyone still interested in GPSL 2002 t-shirts when they cost
> $28?
>
> Paul
>
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>

287. Re: [GPSL] GPSL Patch

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 22:34:32 UTC
From: paul.verhage@boiseschools.org
Topic: 260 Message: 287

> Paul, I didn't get the attachment, so I haven't seen the patch yet. Can you sent
> it in a jpeg format?

I won't be able to bring the patch in until Monday. Can someone
who can convert Corel drawings into JPEGS email the list the
converted patch?

Paul

288. Re: Fw: HAB liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 22:40:01 UTC
From: paul.verhage@boiseschools.org
Topic: 288 Message: 288

From Ralph...

> At my urging, Chuck Crist, W9IH, sent these documents to a fledgling group
> in Pennsylvania. They cover a lot of his extemporaneous discussion at GPSL.
> Perhaps they would fit in your Proceedings. If so, we should ask Chuck for
> permission.

Chuck, can I add your notes to the proceedings? I'm going through
the notes I have so far in an attempt to get the proceedings
together.

> Also try to get more info about not-ARRL ARC liability insurance you
> mentioned at GPSL so it can be shared with all comers.

The company's name is Safeco. I'll forward an address and point of
contact.

Paul

289. QST Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 22:50:33 UTC
From: paul.verhage@boiseschools.org
Topic: 289 Message: 289

I'm working on a QST article. I need some information for it.

As I recall, Bill Brown hitched a ride on a balloon. Was the other payload the one that was tracked with DFing, rather than APRS?

Who flew the DF'd capsule?

When was the DF'd capsule recovered? (I assume it was by 2:00 PM).

Bill, what was the date of your first launch?

Zack, did Bill fly on your spare balloon?

Paul

290. Re: [GPSL] QST Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-19 22:40:54 UTC
From: Zack Clobes
Topic: 289 Message: 290

We did sale a balloon to whoever's popped.
----- Original Message -----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Friday, July 19, 2002 5:50 PM
Subject: [GPSL] QST Article

I'm working on a QST article. I need some information for it.

As I recall, Bill Brown hitched a ride on a balloon. Was the other payload the one that was tracked with DFing, rather than APRS?

Who flew the DF'd capsule?

When was the DF'd capsule recovered? (I assume it was by 2:00 PM).

Bill, what was the date of your first launch?

Zack, did Bill fly on your spare balloon?

Paul

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291. Re: QST Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-20 01:08:50 UTC
From: n1ltv
Topic: 289 Message: 291

> As I recall, Bill Brown hitched a ride on a balloon. Was
> the other payload the one that was tracked with DFing, rather
> than APRS?
>
> Who flew the DF'd capsule?
>
> When was the DF'd capsule recovered? (I assume it was by 2:00
> PM).

Paul,

Please read message 224 for Mark's account of NSTAR at
GPSL. The excerpt below from that message answers some
of your questions about the DF'd balloon.

Hank

Now the only one left to deal with was Mike KD0FW's ATV
and simplex repeater. EOSS, with its extensive DF experience
was already on the job. As we moved back east, we tried to
key up the simplex repeater on 147.585 in the hopes of having a
stronger signal to DF. Others were listening on the ATV carrier
frequency. Since there were plenty of vehicles in the hunt,
those of us with vehicles capable of hauling helium tanks went
back to the airport to move them closer to Manhattan and save
some time for Paul on Monday.

292. Re: [GPSL] QST Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-20 03:20:28 UTC
From: Harry M
Topic: 289 Message: 292

I left just as they got permission to enter the property and were walking in.
The time was 3pm.

Harry

>When was the DF'd capsule recovered? (I assume it was by 2:00
>PM).

293. Re: [GPSL] Re: QST Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-20 02:58:04 UTC
From: Michael L. Bogard
Topic: 289 Message: 293

This is to answer a lot of emails that I got regarding the balloon package. If there are any unanswered questions please email me. The balloon that was DF'ed belonged to Mike Bogard with the Kansas City Amateur Television Group. This was my fourth balloon flight since 1990. I have only lost 1 balloon package as it was just designed to be a fox hunt but I think that a combine ate it as it has never been returned. Bill Brown WB8ELK did not fly anything as he had to work up to the last minute and fly in. I am not sure of the exact time that the capsule was found as it might have been 2:20pm. The payload had a old P.C. Electronics ATV transmitter driving a brick amp to about 4 to 5 watts out to a horizontal polarized mini wheel antenna. The ID'er was a WB8ELK elktronics 4 frame color id'er. I also had a second id'er (built by kb0znp) that was black and white that would come on and scroll my email address for those interested in a qsl. That timer also controlled a outside beeper to aid in recovery. There was a 2 meter simplex repeater that had a special cw id (built by wa0gwa). I also had a 35 mm camera snapping pictures every 10 minutes. The first balloon was a old kaysam from the national weather service middle 1980's and it looked a little funny when it was inflated. After a while it looked worse and burst. The second balloon was a 1200 totex balloon that Bill Brown got for me and we had about 11 pounds of lift. The package weight was 5 pounds and 8 ounces. The parachute was borrowed from Mark Conner. I had reports on the 2 meter simplex repeater from lower Kansas to the southwest corner of Missouri. The video was seen very well in these areas also. We also had a station in Kansas City receive the video and send it back out on the web so others interested could watch outside the viewable area and it worked great and had quite a few watching. That site was at http://pages.prodigy.net/dsudduth/javacampush.htm
Here is the site that has a few JPEG's and avi files that were recorded from the flight http://pages.prodigy.net/dsudduth/files/
The package was found about 22 miles due west of the launch site. The parachute was tangled with the balloon remains and shows signs of crashing pretty hard. The connector on the 2 meter simplex repeater had came out on impact and it shut off the simplex repeater. The impact also shattered to glass for the 35mm camera and moved it out of location. On impact most of the 440 ATV antenna was broke lose leaving just one signal to df the carrier on 439.245 and that is how it was found. It took some time and other people to track down my package but that is where the fun is. My wife even enjoyed herself! I am sorry now that I missed GPSL 2001. See you all next year de kd0fw Mike

294. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-20 03:01:44 UTC
From: Michael L. Bogard
Topic: 236 Message: 294

A tear copy would be just fine for me.

Michael L. Bogard
1304 North Kiger Road
Independence, Missouri
64050

295. Info from WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-20 17:37:22 UTC
From: wb8elk@aol.com
Topic: 295 Message: 295

Hi Paul,

WB8ELK FIRST FLIGHT

My first flight was from Findlay, Ohio on August 15, 1987 on my birthday (August 15th is also the birthday of fellow balloonatics Chuck Crist W9IH of WindTrax and also Joe Mayenschein WB9SBD from Wisconsin..there must be something about that birthdate!!). It was carrying an ATV transmitter on 439.25 MHz and a 50 milliwatt 2m transmitter on 144.34 MHz. I ran out of helium and ended up with 2 ounces of positive lift. It was a windy day and the payload barely lifted off the ground and travelled the entire length of a field (almost snagging on the corn several times) before finally taking to the air. It landed 25 miles to the northwest three hours later. The batteries had died in mid-flight and we relied on the oldest form of foxhunting....A REWARD sign. It was found 6 weeks later by a farmer as he was harvesting his soybeans.

KD0FW Flight at GPSL:

I basically just helped Mike Bogard KD0FW and Jackie Bogard launch their balloon (and chased it).....Although I have a garage filled with balloon payloads, I didn't bring one with me. I figured it wasn't a good idea to check baggage onto the airlines containing strange electronic components and lithium batteries. Perhaps next year, we can arrange a place to mail payloads for those of us who are flying to the launch? I thought about flying to GPSL on a balloon-powered lawn chair but getting those winds to cooperate is a problem.

KD0FW Flight:

We inflated a 22-year old Kaysam balloon first (the ugly one with a clear bulge in it). A short while after inflation it burst as I was holding it....we were able to obtain a spare Totex TA1200 balloon (I don't remember who gave us the spare balloon as it happened pretty fast - <hopefully they'll let us know on the list>).
Mike Bogard KD0FW and Jackie Bogard (callsign?) of Independence, MO flew the DF'ed payload. At launch I was holding the balloon and Mike was holding the payload....we were standing next to Paul's balloon.
The KD0FW payload consisted of ATV on 434 MHz and a simplex repeater on 147.585 MHz. Mike has flown 3 previous flights and chased many others and also enjoys tracking down radiosondes on 1680 MHz (+/- 10 MHz drift). He has found quite a few and it's good practice for balloon chasing (the opportunities are twice daily)...in fact it's quite a challenge since they drift wildly in frequency during flight. I've used a small Quagi on 1680 MHz that Mike built for me years ago and found several myself (I use an AOR3000A for the receiver in WFM mode).

Mike's simplex repeater's power connector came apart on landing so it was DF'ed solely on the ATV carrier. It was in the middle of a cow pasture about 3 miles southeast of where 3 of the other payloads had landed. The landowner's relatives came out to let us onto the property and one of them worked as a computer instructor at the local school. She was very excited about doing a balloon flight for her school and was interested in attending next year's GPSL. Bobette Doerrie N5IS of "Reach for Space" was going to email her particulars about the flight (Bobette has her class in Texas build small payloads and flies them as a school project).
We all had a great time tromping into the cow pasture and finding the payload (although a few hungry chiggers found me in the process - ouch). I did the final DF using my ears and following the Sonalert beeper. Mike and Jackie got drenched (Jackie got the worst of it) as a thunderstorm decided to hit just as we all were getting back to our cars. I very nearly got stuck in the mud as we were driving out....chunks of mud were periodically falling off the underside of my rental car all the way back to the airport in KC the next day.

- Bill Brown WB8ELK

PS...I'm going to upload my photos to my website over the weekend.

==========
http://www.wb8elk.com

http://www.hamballoons.com

email: wb8elk@...

296. Launchmaster's accounts

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-21 05:32:43 UTC
From: n1ltv
Topic: 296 Message: 296

Thanks to Mike and Bill for posting accounts of their
experiences at GPSL2002. It's nice to read some
of the personal vignettes for a change of pace from
100% technical balloon data.

Hank

297. QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 16:29:49 UTC
From: paul.verhage@boiseschools.org
Topic: 297 Message: 297
Attachments: 2 described; binary payloads are missing from this source WARC

Here's the first draft of the GPSL article for QST. Please look it over for technical or historical errors or omissions. I still plan to work on grammar, but if you see any glaring errors, please point those out also.

I'll start putting something together for ATV Quarterly unless I hear someone else is doing that.

Paul

298. Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 16:34:08 UTC
From: paul.verhage@boiseschools.org
Topic: 79 Message: 298

I have the following presentations,
TVNSP
Ralph Wallio's
NSTAR
EOSS.

I'd like to get ANSR's presentation. If you gave me a copy at GPSL, then it has been misplaced.

Bill Brown, do you have notes that I could put into the proceedings?

How about Chuck Crist?

The EOSS presentation is very large. Do you want to reduce it? I orginally planned to add graphics to the words in the presntation, but with your presentation, my little PC would be trying to create output all weekend.

Have I missed anyone?

Paul

299. Re: [GPSL] Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 15:42:56 UTC
From: mgray@ess-us.com
Topic: 79 Message: 299

Paul,

I did give a copy of the ANSR presentation on CD-ROM to someone at
the conference. I think it was you, but maybe someone else has it.
A copy of both presentations (on the balloon and glider program)
is available on my web site at:

http://www.kd7lmo.net/gpsl2002.html

Michael Gray
ANSR

From sentto-6764416-297-1027352069-mgray=ess-us.com@... Mon Jul 22 08:35:01 2002
X-eGroups-Return: sentto-6764416-297-1027352069-mgray=ess-us.com@...
X-Sender: VERHAP@...
X-Apparently-To: gpsl@egroups.com
To: GPSL@yahoogroups.com
Priority: normal
X-mailer: Pegasus Mail for Windows (v3.01d)
X-eGroups-From: <VERHAP@...>
From: <paul.verhage@...>
X-Yahoo-Profile: pverhage1960
MIME-Version: 1.0
Mailing-List: list GPSL@yahoogroups.com; contact GPSL-owner@yahoogroups.com
Delivered-To: mailing list GPSL@yahoogroups.com
Precedence: bulk
List-Unsubscribe: <mailto:GPSL-unsubscribe@yahoogroups.com>
Date: Mon, 22 Jul 2002 09:34:08 -700
Subject: [GPSL] Proceedings
Reply-To: GPSL@yahoogroups.com
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

I have the following presentations,
TVNSP
Ralph Wallio's
NSTAR
EOSS.

I'd like to get ANSR's presentation. If you gave me a copy at
GPSL, then it has been misplaced.

Bill Brown, do you have notes that I could put into the proceedings?

How about Chuck Crist?

The EOSS presentation is very large. Do you want to reduce it? I orginally planned to add graphics to the words in the presntation, but with your presentation, my little PC would be trying to create output all weekend.

Have I missed anyone?

Paul

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300. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 16:09:49 UTC
From: Doug Eubanks
Topic: 297 Message: 300

Paul,

You only list 9 states represented in your article. There were actually 11 states.
Your forgot Alabama, WB8ELK, Bill Brown territory, and,
Missouri, home territory to KD0FW, Mike Bogard.

Also, my last name has an "s" on it. EUBANKS

(Gee this is fun correcting a school teacher!)

Doug, KAØO

----- Original Message -----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Monday, July 22, 2002 11:29 AM
Subject: [GPSL] QST Article, first draft

Here's the first draft of the GPSL article for QST. Please look it
over for technical or historical errors or omissions. I still plan to
work on grammar, but if you see any glaring errors, please point
those out also.

I'll start putting something together for ATV Quarterly unless I hear
someone else is doing that.

Paul

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---- File information -----------
File: qstgps~1.doc
Date: 21 Jul 2002, 20:00
Size: 34816 bytes.

Type: Unknown

301. Re: [GPSL] Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 16:32:05 UTC
From: wb8elk@aol.com
Topic: 79 Message: 301

Hi Paul,

I'll write up something for the proceedings next weekend.

- Bill WB8ELK

302. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 16:59:22 UTC
From: Don Pfister
Topic: 297 Message: 302

I don't see Project Traveler listed in the groups - 3rd paragraph.

paul.verhage@... wrote:

> Here's the first draft of the GPSL article for QST. Please look it
> over for technical or historical errors or omissions. I still plan to
> work on grammar, but if you see any glaring errors, please point
> those out also.
>
> I'll start putting something together for ATV Quarterly unless I hear
> someone else is doing that.
>
> Paul

303. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 17:03:08 UTC
From: Don Pfister
Topic: 297 Message: 303

Spelling error (should be "to") just after Zack's name - about the burst balloon replacement. Zack is with Project Traveler.

paul.verhage@... wrote:

> Here's the first draft of the GPSL article for QST. Please look it
> over for technical or historical errors or omissions. I still plan to
> work on grammar, but if you see any glaring errors, please point
> those out also.
>
> I'll start putting something together for ATV Quarterly unless I hear
> someone else is doing that.
>
> Paul

304. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 17:07:46 UTC
From: Don Pfister
Topic: 297 Message: 304

Just a side note but two HABITAT SkyLab vehicles returned to the airport to also carry helium tanks.

paul.verhage@... wrote:

> Here's the first draft of the GPSL article for QST. Please look it
> over for technical or historical errors or omissions. I still plan to
> work on grammar, but if you see any glaring errors, please point
> those out also.
>
> I'll start putting something together for ATV Quarterly unless I hear
> someone else is doing that.
>
> Paul

305. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 17:12:08 UTC
From: Don Pfister
Topic: 297 Message: 305

Nice article! I'm not sure but I think I almost had as many miles - going to and from Manhattan/Herington/Home - as you did from Idaho. ;-)

paul.verhage@... wrote:

> Here's the first draft of the GPSL article for QST. Please look it
> over for technical or historical errors or omissions. I still plan to
> work on grammar, but if you see any glaring errors, please point
> those out also.
>
> I'll start putting something together for ATV Quarterly unless I hear
> someone else is doing that.
>
> Paul

306. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 17:57:28 UTC
From: Don Pfister
Topic: 297 Message: 306

Paul, I'm not sure this fits with your idea, where you list the groups and their balloons, what about adding another column and listing the altitudes? I think I saw a chart of altitudes early after the flights. Just a thought.

Web sites of interest, did you want to include EOSS?

Just as a point of interest (maybe just of interest to me), my 6M simplex repeater capsule is the same one that flew in GPSL 2001. It was the same equipment, capsule - even the batteries I think. ;-) Those that remember, last year, will know this is one of capsules that were in a free fall for several thousand feet, when the capsules separated from the parachute. Other than a scratch on the front of the simplex repeater, there was no damage to this equipment.

Did you purposely leave out callsigns? Just a question.

Don

paul.verhage@... wrote:

> Here's the first draft of the GPSL article for QST. Please look it
> over for technical or historical errors or omissions. I still plan to
> work on grammar, but if you see any glaring errors, please point
> those out also.
>
> I'll start putting something together for ATV Quarterly unless I hear
> someone else is doing that.
>
> Paul

307. Re: table of GPSL altitudes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 18:55:03 UTC
From: n1ltv
Topic: 297 Message: 307

> where you list the groups and their
> balloons, what about adding another column and listing
> the altitudes? I think I saw a
> chart of altitudes early after the flights.

Don,

I think you're remembering my post to TVNSP list (and maybe
a few other lists). It didn't go here, so here's it is
from July 7 (a few extra words added here and there). Since
this was written, Paul has a peak altitude revised slightly
upward by a couple hundred feet from what is shown below.

Hank

July 7
---

meters feet

Paul 26796 87900 (87913)
Mike 26671 87500 (87503)
Don 26052 85500 (85472)
Mark* 24987 82000 (81978)
Zack 22167 72700 (72726)

*reported in feet and converted to meters

This is what I get from using the igated data of the highest
reported altitudes. I've shown the feet converted from meters
rounded to hundreds of feet to set an example of showing data
to a reasonable degree of precision but no more (the
down-to-the-foot figures are in parentheses for those who
insist, but it's not a good practice).

Paul and Mike are already within a remarkably close 400 feet
of each other, and Paul's igated figures suggest that his peak
was almost caught perfectly by the timing of the packet
transmissions. Mike's figures don't indicate a favorable timing
(although it can't be ruled out), so to my way of thinking Mike's
balloon in actuality may have edged out Paul's by as much as
several hundred feet.

I offer these comments just to illustrate there is a certain
approximation involved in pegging a balloon's height without

more frequent measurements of the balloon's altitude and with the limitations of GPS vertical accuracy. With this in mind, I think it's best to consider it a tie between the first two in the list.

The important point is that balloon altitudes by consumer GPS with coarse reporting (every 60 or 30 seconds) are really only accurate to within a hundred feet of absolute vertical position at best, and likely err by as much as 500 feet in the direction of underestimating altitude (because of the too infrequent measurement cycle).

Hank

308. Re: table of GPSL altitudes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 19:05:48 UTC
From: n1ltv
Topic: 297 Message: 308

Paul 26796 87900 (87913)

Paul (revised) 88200 (88163)

Do I think this reporting precision issue is
worthwhile to discuss?

Yes.

Reporting to a reasonable precision and no more
shows that the investigator is informed and aware
of the shortcomings of his data collection methods.

If this kind of data were ever to make it to an
engineering or scientific publication, the altitude
figures stated down to the foot, at least without
some qualification, would go out the window. They
just wouldn't get by the editor.

I know it's natural to use all the digits if you
have them, but it's not good practice because
the implied precision is bogus.

Hank

309. Re: [GPSL] Re: table of GPSL altitudes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 20:13:14 UTC
From: Don Pfister
Topic: 297 Message: 309

Yes, I meant to come back to this but have been sidetracked. One of the things I have tried to do in the past was to capture the GPS data too. Mainly I was interested in the Satelite data, number, signal strength, 2D/3D fix etc.

One of my main interests is that GPS info. With all the balloons, and the inability to get my second beacon (GPS payload) running in time for the launch (later I realized I hooked up the RD instead of the TD line) I didn't fly the second beacon which would have sent the GPS data on a different band. Oh well there will be next year for GPSL. And another HABITAT SkyLab flight probably Aug. 3.

Sorry this was just a running off at the fingers (yet again, been a lot of that from me lately).

Thanks,
Hank

n1ltv wrote:

> Paul 26796 87900 (87913)
>
> Paul (revised) 88200 (88163)
>
> Do I think this reporting precision issue is
> worthwhile to discuss?
>
> Yes.
>
> Reporting to a reasonable precision and no more
> shows that the investigator is informed and aware
> of the shortcomings of his data collection methods.
>
> If this kind of data were ever to make it to an
> engineering or scientific publication, the altitude
> figures stated down to the foot, at least without
> some qualification, would go out the window. They
> just wouldn't get by the editor.
>
> I know it's natural to use all the digits if you
> have them, but it's not good practice because
> the implied precision is bogus.
>
> Hank
>
>
> To unsubscribe from this group, send an email to:

> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.kc.net/~dpfister - going away not sure when they will pull the plug
http://www.netlab.org/~donp
http://home.earthlink.net/~ka0jlf
http://home.kc.rr.com/cdpfister/
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being
built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-9 van
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

310. Re: table of GPSL altitudes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 20:28:10 UTC
From: n1ltv
Topic: 297 Message: 310

Don,

While you're around, inquiring minds would like to know
the weight of your GPSL HABITAT payload.

Surely you must be able to give a pretty good estimate
or actually drop it on a scale and weigh it. :)

Hank

311. Re: [GPSL] Re: table of GPSL altitudes

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-22 20:34:34 UTC
From: Don Pfister
Topic: 297 Message: 311

Actually it is still in the car from the launch, then photo shoot. I'll go get
it and get this checked off my "To Do" list. ;-)
It even made the trip to NE and back. ;-)

Back in a few,
Don (slow)

n1ltv wrote:

> Don,
>
> While you're around, inquiring minds would like to know
> the weight of your GPSL HABITAT payload.
>
> Surely you must be able to give a pretty good estimate
> or actually drop it on a scale and weigh it. :)
>
> Hank

312. Re: [GPSL] QST Article, first draft

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-23 04:18:53 UTC
From: Michael L. Bogard
Topic: 297 Message: 312

You might want to thank your mother rather than take her. I will get my pictures posted at http://www.qsl.net/kd0fw If you are going to list any. 73's see and see you next year. Mike kd0fw

313. Dew Pt?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-25 20:45:30 UTC
From: paul.verhage@boiseschools.org
Topic: 313 Message: 313

I'm assuming the dew point at launch for GPSL must have been at least in the mid 60's. Mark, is there a record kept of this information? I've graphed the lapse rate as measured by my flight. I'd like get the dew point and see if the atmosphere was stable and until what altitudes.

Paul

314. Re: [GPSL] Articles?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-26 20:55:51 UTC
From: paul.verhage@boiseschools.org
Topic: 275 Message: 314

Mr. Harlan, since I've not heard from anyone, I'm starting an article on GPSL 2002 that will also mention the previous GPSLs. I'll try to email it to you next week. I'll send a paper copy and photos by mail.

Paul

> Yes, do not forget "ATV magazine (whatever....)". The summer issue just went
> to press, and has a little that says "More coming....", so make sure we get
> it!
>
> Thanks. Sounds like everyone had a great time.
>
> Gene Harlan - WB9MMM
> Harlan Technologies - publisher of
> OSCAR Satellite Report - OSR@...
> Amateur Television Quarterly - ATVQ@...
> http://www.hampubs.com
>
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, July 18, 2002 1:00 PM
> Subject: [GPSL] Articles?
>
>
> Hank brings up a good point. Has anyone started writing
> something about GPSL 2002? QST has asked me to send
> something in, but that's no guarentee that it will be published.
> Hanks has offered to write up something, how about everyone
> else? Was something written for QRZ?
>
> > I'm wondering if you or anyone you may have selected will
> > be doing an official writeup of GPSL for dissemination
> > to the usual ham radio media suspects such as QST,
> > ARRL newsletter, CQ, CQ VHF, ATV magazine (whatever the
> > exact name is), etc.
>
> Paul
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com

>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

315. Re: [GPSL] Articles?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-26 20:20:42 UTC
From: Gene Harlan
Topic: 275 Message: 315

Thanks Paul. I will look forward to getting it!

Gene Harlan - WB9MMM
Harlan Technologies - publisher of
OSCAR Satellite Report - OSR@...
Amateur Television Quarterly - ATVQ@...
http://www.hampubs.com

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, July 26, 2002 3:55 PM
Subject: Re: [GPSL] Articles?

Mr. Harlan, since I've not heard from anyone, I'm starting an article
on GPSL 2002 that will also mention the previous GPSLs. I'll try to
email it to you next week. I'll send a paper copy and photos by
mail.

Paul

> Yes, do not forget "ATV magazine (whatever....)". The summer issue just
went
> to press, and has a little that says "More coming....", so make sure we
get
> it!
>
> Thanks. Sounds like everyone had a great time.
>
> Gene Harlan - WB9MMM
> Harlan Technologies - publisher of
> OSCAR Satellite Report - OSR@...
> Amateur Television Quarterly - ATVQ@...
> http://www.hampubs.com
>
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, July 18, 2002 1:00 PM
> Subject: [GPSL] Articles?
>
>
> Hank brings up a good point. Has anyone started writing
> something about GPSL 2002? QST has asked me to send
> something in, but that's no guarentee that it will be published.

> Hanks has offered to write up something, how about everyone
> else? Was something written for QRZ?
>
> > I'm wondering if you or anyone you may have selected will
> > be doing an official writeup of GPSL for dissemination
> > to the usual ham radio media suspects such as QST,
> > ARRL newsletter, CQ, CQ VHF, ATV magazine (whatever the
> > exact name is), etc.
>
> Paul
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

316. GPSL 2002... GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-27 20:30:29 UTC
From: K. Mark Caviezel
Topic: 316 Message: 316

All:
just now getting back on email after three weeks at
remote arctic outpost... congrats to all, looks like
it was a 100% super event!
As far as next year, Colorado is good, Kansas is good,
heck about anywhere is good. I was planning to
participate in GPSL 2002, but got opportunity to go to
the summer season of the Mars Society arctic research
station so I had to opt out. Maybe I could get some
Mars Society people to put up a balloon from the Devon
Island simultaneous with the main event.... with the
24 hour polar sunshine perhaps a floater could hang
around quite a while as they do at the south pole.
ahhh, just thoughts.... congrats again to all who
participated, sorry I had to miss it.

- KMC kc0jhq

_____
Do You Yahoo!?
Yahoo! Health - Feel better, live better
http://health.yahoo.com

317. ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-07-29 19:37:49 UTC
From: paul.verhage@boiseschools.org
Topic: 317 Message: 317

I've emailed Mr. Harlan an article about GPSL. Can Mr. Harlan use the photos we have on-line for ATV Quarterly? If there is a problem with this, then I'll send him some hardcopies of mine.

Paul

318. Re: ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-03 00:23:11 UTC
From: n1ltv
Topic: 317 Message: 318

> I've emailed Mr. Harlan an article about GPSL.

Paul,

The GPSL piece you wrote up and posted was very good and answered a lot of the basic questions.

Wondering if you have sent anything smaller to QST along the way.

Hank

319. MIM?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-07 20:48:14 UTC
From: paul.verhage@boiseschools.org
Topic: 319 Message: 319

How do we order MIMs now? Who is selling them?

Thanks,
Paul

320. Re: [GPSL] MIM?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-07 21:23:59 UTC
From: Don Pfister
Topic: 319 Message: 320

Mr. APRS himself, Bob Bruninga WB0APR. He bought the MIM from ... well whoever.
The last one I bought from him directly a few years ago.

Don

paul.verhage@... wrote:

> How do we order MIMs now? Who is selling them?
>
> Thanks,
> Paul

321. Re: [GPSL] MIM?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-07 21:50:30 UTC
From: Don Pfister
Topic: 319 Message: 321

Perhaps the MIM is no longer available. I sent an email to Bob and asked. I'll let you know what I find out.

Don

Don Pfister wrote:

> Mr. APRS himself, Bob Bruninga WB0APR. He bought the MIM from ... well whoever.
> The last one I bought from him directly a few years ago.
>
> Don
>
> paul.verhage@... wrote:
>
> > How do we order MIMs now? Who is selling them?
> >
> > Thanks,
> > Paul

322. Balloon Ascent Speeds

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-09 18:05:30 UTC
From: paul.verhage@boiseschools.org
Topic: 322 Message: 322

In my book I discuss technical issues like the lift of helium, descent speeds of parachutes, cosmic rays, etc. The next topic I'm tackling is the ascent speed of a balloon. Here's what I have for my notes so far. I'm looking for input, because I don't have the complete picture yet. Please spend a little time looking these notes over and making suggestions. Thanks.

A. Intro

We know the balloon will expand as it rises due to decreasing air pressure. As a gas expands, as in a balloon, it cools. This cooling decreases the volume of a gas. We can see that during a flight that the balloon expands a lot more due to reduced air pressure than it contracts due to cooling air temperatures (both inside and outside the balloon). So cooling has a minor effect compared to reducing air pressure. The forces acting on a balloon are three, payload weight (W) pulling down, lift (L) pulling up, and drag (D) pulling in the direction opposite of the balloon's motion (so drag pulls down, just like the weight). Looking at flight data, we see that the balloon ascends at a constant rate for the entire flight [1]. As long as there is no net force acting on a balloon (or any object for that manner), it moves with zero acceleration, or constant velocity. Since the balloon climbs at a constant veleocity, the force of lift of the balloon is balanced by drag and weight, D + W = L. Lift and weight are constant on a balloon flight [2], therefore the force of drag must be a constant throughout the flight also.

B. Drag

The equation for drag is given as,
D = Cd * Ra * sq(V)/2 * rho

where,
Cd is a coefficient of drag
Ra is the reference area
sq(V)/2 is the square of the velocity, divided by 2
rho is the density of the air.

Cd is a dimensionaless constant. This means it's simply a number and does not have any units (like pounds or feet) attached to it. For a sphere, Cd is about 0.5

Ra is an area you choose to use. If you select a different area as your Ra, then the Cd for that Ra is different, but Cd is still just a number

I only what to determine how ascent speed changes as the variables change, so I'm going to treat this equation as a relationship of proportionality and drop the constants for the rest of this discussion.

When you look at the US Standard Atmosphere (a model of how air pressure, density, and temperature change as a function of altitude), you see that the change in air density closely tracks the change in air pressure. So I'm going to replace air density with air pressure. The reason I do this is that we can see the change in air pressure changes the balloon's volume and therefore it's reference area. As a Ra, I'm going to select the frontal area occupied by the balloon. This Ra is proportional to the two-thirds power of the volume. The balloon's volume, ideally, is proportional to the inverse of the air pressure. Observations show that the balloon's vertical velocity, its ascent rate, is constant throughout a flight. So sq(V)/2 is also a constant. When I combine like terms and move the constants out, I end up with the following,

D is proportional to (volume)^2/3 * pressure

Which simplifies to

D pro to 1/(pressure)^2/3 * pressure

Which simplified to

D pro to (pressure)^1/3

However, D must be a constant, whereas pressure is not a constant! So what's wrong here?

The change in temperature can't be responsible for adjusting the change in volume (that is due to changing air pressure) because we see the temperature change in opposite direction in the tropo and stratosphere. And yet, the ascent rates in both the tropo and stratosphere are both constant.

So it appears to me that Cd is not a constant throughout a flight.

C. Cd

Cd models drag's depenedencies on things like shape, air viscosity, and air compressibility. The balloon's shape does not change significantly during a flight. The air compressiblity is not siginificant belows speeds of 200 mph. This leaves only air viscosity. Is the change in the air's viscosity proportional to the cube root of the air's pressure? If so, the change in Cd would oppose the chnage in drag caused by the change in air pressure (or more exactly, air density). Does the Cd of an aircraft change as the aircraft climbs?

Note 1
There is a knee in the ascent speed of a balloon as you approach

the stratosphere. In the startosphere, the air temperature increases as the balloon climbs. Perhaps the slight extra increase in the balloon's diameter due to increasing stratospheric temperatures increases the balloon's drag slightly, causing it to slow down a bit. As a future experiment, does a black balloon rise faster than an identical white balloon or slower?

Note 2
The lifting ability of helium does decrease with decreasing pressure. But this amounts to only something like a percent or two. This is not enough to significantly effect our numbers.

Paul

323. Re: [GPSL] Herington newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-17 20:57:22 UTC
From: Don Pfister
Topic: 236 Message: 323

After my forgetfullness, I did contact J.R. again yesterday - thanks to kd0fw reminding me. He was going to check and see how many copies he had and send me upto 24. He was going to call me back but I didn't get a call or message.

I will follow up on this. I will mail copies to those of you that have told me you wanted one (or more). I hope to mail copies out next week.

I found out they are $1 each plus postage. They charge the price of the paper ($1 an issue) even for the tear sheets. To avoid the additional postage/shipping I just got tear sheets.

More later, let me know if you have any questions. Oh, Mark in answer to your question yes that is the paper but the area code changed to 785 like Doug said.

IF this list isn't everyone, please pass this on to your groups or lists.

Don
--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors
http://pfranc.com/cgi-bin/pub/u_KS
http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug

Don Pfister wrote:

> I talked to J.R. he said they ran an article with 3 photos. He wants to know how
> many copies we want and where to send them to. I told him I thought tear sheets
> were ok, not the whole issue, is that right?
>
> How do you want to do this? You want them sent to me and then I will send them
> to you or should we just have them mail them out. I didn't ask about cost yet, I
> thought until we could answer how many, the cost wouldn't matter much. I'm
> afraid a qty would make a difference.
>
> Let me know,
> Don
>
> Doug Eubanks wrote:
>
> > J.R. Sparke785-258-2211
> >
> > ----- Original Message -----
> > From: Don Pfister
> > To: GPSL@yahoogroups.com
> > Sent: Friday, July 12, 2002 7:25 PM

> > Subject: Re: [GPSL] Herington newspaper
> > Anyone remember his name from the reporter? I'll give them a call.
> >
> > Mark Conner wrote:
> >
> > > Our media coverage for GPSL consisted of the local (weekly?) newspaper
> > > coming out that morning. I found on Google a listing for the following
> > > paper:
> > >
> > > HERINGTON TIMES 7 N BROADWAY HERINGTON, KS 67449-2401 913-258-2211
> >
> > >
> > > If no one's already arranged for this, I'd like to call them and get a
> > > few copies. Don, is this the correct paper?
> > >
> > > - Mark

324. Herington Airport Fly-In

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-19 19:51:04 UTC
From: paul.verhage@boiseschools.org
Topic: 324 Message: 324

Don and Zack, I just got a phone call from the airport manager at Herington. Their Fly-In is on Sept 7. He'd like you to contact him about a balloon launch at the Fly-In.

Paul

325. Re: [GPSL] Herington Airport Fly-In

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-19 19:07:05 UTC
From: Don Pfister
Topic: 324 Message: 325

I already have. I don't know why he contacted you.

paul.verhage@... wrote:

> Don and Zack, I just got a phone call from the airport manager at
> Herington. Their Fly-In is on Sept 7. He'd like you to contact him
> about a balloon launch at the Fly-In.
>
> Paul

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors
http://pfranc.com/cgi-bin/pub/u_KS
http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug

Founder of HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.netlab.org/~donp
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being
built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

326. Re: [GPSL] Herington Airport Fly-In

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-19 19:34:56 UTC
From: Don Pfister
Topic: 324 Message: 326

HABITAT SkyLab is scheduled to launch a balloon at the Herrrington Airport Open House at 10 a.m.

Hank, I will post on HABLIC.

I'll provide more info as it becomes available.

Mark and Zack, last I knew, were both planning a launch that date too. I talked to Zack yesterday at the Salina HamFest. Mark, I seem to remember a schedule conflict that might have you move your flight, any word on that?

73 de Don

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors
http://pfranc.com/cgi-bin/pub/u_KS
http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug

Founder of HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
Email=ka0jlf@... or ka0jlf@... or donp@...

http://habitat.netlab.org
http://www.netlab.org/~donp
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF Home
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

327. Windtrax

Yahoo group: GPSL (2002 — 2008)
Date: 2002-08-22 23:16:00 UTC
From: paul.verhage@boiseschools.org
Topic: 327 Message: 327

I'd like to get a copy of the materials Windtrax taught. TVNSP may be given some PCs. I'd like to set up a mini-Windteax with them. There is no more windtrax.org on the web.

Thanks,
Paul

328. Fw: [tvnsp] Mr. Potatohead

Yahoo group: GPSL (2002 — 2008)
Date: 2002-09-23 14:56:18 UTC
From: Mark Conner
Topic: 328 Message: 328
Attachments: 3 described; binary payloads are missing from this source WARC

This was on the TVNSP list last Friday. Mr. Potato Head is safe and sound after his ride into near space at GPSL 2002, but is looking for bail money.

73 de Mark N9XTN

------- Forwarded Message Follows -------
From: "Dickinson Co. Sheriff" <sheriff@...>
To: "'verhap@...'" <verhap@...>
Copies to: 893 Lorraine Geist <Windows/Admin/LGEIST@...>
Subject: Mr. Potato Head
Date sent: Fri, 20 Sep 2002 08:41:24 -0500
Organization: Abilene, KS 67410

Paul,

We have Mr. Potato Head in custody at our Jail. He paracuted in and was taken into custody for Trespassing. Here are some photos of him taking a breath test, getting his mug photo taken, and in his cell. Our address is Dickinson County Sheriff, 109 East 1st, Abilene, KS 67410. Phone 785-263-4081.

Thanks Undersheriff Nachtman

329. GPSL Photograph

Yahoo group: GPSL (2002 — 2008)
Date: 2002-09-24 15:16:50 UTC
From: paul.verhage@boiseschools.org
Topic: 329 Message: 329

I just received word from Sky and Telescope. They plan to put the high altitude photograph from the TVNSP capsule in their Jan 2003 issue, in the Gallery section. The photograph is the one on Mark's website.

Paul

330. GPSL 2002 Article

Yahoo group: GPSL (2002 — 2008)
Date: 2002-09-27 14:24:47 UTC
From: paul.verhage@boiseschools.org
Topic: 330 Message: 330

CQ VHF is accepted the GPSL 2002 article for publication. Look for it in their Winter issue.

Paul

331. Video clip from NSTAR capsule at GPSL 2002

Yahoo group: GPSL (2002 — 2008)
Date: 2002-10-09 03:23:37 UTC
From: Mark Conner
Topic: 331 Message: 331

I have a video clip showing the launch and the view at various altitudes at the following site:

http://68.13.112.250:14480/NSTAR02D/NSTAR02D.wmv

The clip is about 12 Mbytes and 5 minutes. This server should be able to uplink at about 128 kbits/sec, but I've been told it's not that fast at times. If you do download the movie on a broadband connection, please send me a short note with the bandwidth you got from me.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

332. GPSL 2003 Date?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-12-29 18:48:47 UTC
From: Don Pfister
Topic: 332 Message: 332

Has a date been set for GPSL 2003? I have noticed several groups trying to set some launch dates for 2003. We are too, and GPSL is one we plan to attend again.

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF
Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
email: habitat@...

http://home.kc.rr.com/cdpfister/Kites/ Our Kite Page

http://habitat.netlab.org
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

PFranc of KS - GPS cables and connectors
http://pfranc.com/cgi-bin/pub/u_KS?pid=eD1
http://pfranc.com/cgi-bin/pub/u_KS?pid=pD32
http://pfranc.com/cgi-bin/pub/u_KS?pid=pD8
http://pfranc.com/cgi-bin/pub/u_KS
http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug

333. Re: [GPSL] GPSL 2003 Date?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-12-29 18:58:32 UTC
From: Zack Clobes
Topic: 332 Message: 333

Date and location.

Hutchinson would be happy to host it.. ;-)

Zack Clobes
Project: Traveler
www.rckara.org

----- Original Message -----
From: "Don Pfister" <ka0jlf@...>
To: <GPSL@yahoogroups.com>
Sent: Sunday, December 29, 2002 12:48 PM
Subject: [GPSL] GPSL 2003 Date?

> Has a date been set for GPSL 2003? I have noticed several groups trying to
set
> some launch dates for 2003. We are too, and GPSL is one we plan to attend
again.
>
> Thanks,
> Don
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
> email: habitat@...
>
> http://home.kc.rr.com/cdpfister/Kites/ Our Kite Page
>
> http://habitat.netlab.org
> http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being
> built...
>
> PFranc of KS - GPS cables and connectors
> http://pfranc.com/cgi-bin/pub/u_KS?pid=eD1
> http://pfranc.com/cgi-bin/pub/u_KS?pid=pD32
> http://pfranc.com/cgi-bin/pub/u_KS?pid=pD8
> http://pfranc.com/cgi-bin/pub/u_KS
> http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com

>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

334. RE: [GPSL] GPSL 2003 Date?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-12-29 19:01:55 UTC
From: Doug Eubanks
Topic: 332 Message: 334

Don,
It seems someone mentioned Saturday, July 5th
before we all split up this past year.
It is definitely something we all want to get on
our calendars.
It should really be against the law for us to have
so much fun!

Doug, KA?O
ka0o@...

-----Original Message-----
From: Don Pfister [mailto:ka0jlf@...]
Sent: Sunday, December 29, 2002 12:49 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL 2003 Date?

Has a date been set for GPSL 2003? I have
noticed several groups trying to set
some launch dates for 2003. We are too, and GPSL
is one we plan to attend again.

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF
Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And
Tracking)
email: habitat@...

http://home.kc.rr.com/cdpfister/Kites/ Our Kite
Page

http://habitat.netlab.org
http://www.netlab.org:8888/ Visit the Lab in the
Hobby wing. HABITAT being
built...

PFranc of KS - GPS cables and connectors
http://pfranc.com/cgi-bin/pub/u_KS?pid=eD1
http://pfranc.com/cgi-bin/pub/u_KS?pid=pD32
http://pfranc.com/cgi-bin/pub/u_KS?pid=pD8
http://pfranc.com/cgi-bin/pub/u_KS

http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

335. Re: [GPSL] GPSL 2003 Date?

Yahoo group: GPSL (2002 — 2008)
Date: 2002-12-29 19:09:04 UTC
From: Don Pfister
Topic: 332 Message: 335

I remembered it was around the 4th but that is as close as I could get. ;-)

I'll put it down for the 5th and update if we are corrected. ;-)

Thanks!

Doug Eubanks wrote:

> Don,It seems someone mentioned Saturday, July 5th before we all split up this
> past year.It is definitely something we all want to get on our calendars.It
> should really be against the law for us to have so much fun!Doug,
> KA?Oka0o@...-----Original Message-----
> From: Don Pfister [mailto:ka0jlf@...]
> Sent: Sunday, December 29, 2002 12:49 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] GPSL 2003 Date?
>
>
> Has a date been set for GPSL 2003? I have noticed several groups
> trying to set
> some launch dates for 2003. We are too, and GPSL is one we plan to
> attend again.
>
> Thanks,
> Don
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
> email: habitat@...
>
> http://home.kc.rr.com/cdpfister/Kites/ Our Kite Page
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> being
> built...
>
> PFranc of KS - GPS cables and connectors
> http://pfranc.com/cgi-bin/pub/u_KS?pid=eD1
> http://pfranc.com/cgi-bin/pub/u_KS?pid=pD32
> http://pfranc.com/cgi-bin/pub/u_KS?pid=pD8
> http://pfranc.com/cgi-bin/pub/u_KS

> http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug
>
--

[Signature File]
Name=Don Pfister KA0JLF

336. ARHAB Records - 2002 Q4 update

Yahoo group: GPSL (2002 — 2008)
Date: 2002-12-31 14:01:22 UTC
From: Ralph Wallio, W0RPK
Topic: 336 Message: 336

My thanks to everyone for another great year of Amateur Radio High Altitude Ballooning! We established seven new 1-2-3 records in 2002. Rumor has it we will see even more in 2003. Keep 'em coming folks. Record entries define our collective state-of-the-art.

Note that *Ratio of Released v. Recovered Payloads* has been changed to *Total Missions Flown*. New entries and revised counts are encouraged.

See http://users.crosspaths.net/wallio/RECORDS.html for all record entries and details.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Hubbert's Peak: The Mother of all Perfect Storms

Highest GPS Reported Altitude (12 entries)
1. Norm Kjome (KB7ZJT) 20Mar99 120,522ft ASL (SA)
2. SSOK (WB?DRL) 08Jan00 117,460ft ASL (SA)
3. KNSP-99A (KD4STH) 06Feb99 114,399ft ASL (SA)

Lowest Reported Maximum Altitude (7 entries)
1. HABET-H30 (ISGC/ISU) 02Mar00 4,903ft
2. HABET-H36 (ISGC/ISU) 30Mar00 13,511ft
3. HABET-H42 (ISGC/ISU) 08Sep00 16,301ft

Highest Continuous Ascent Rate (13 entries)
1. EOSS-54 23Feb02 1584.9ft/min
2. TV?2D (TVNSP) 03Aug02 1519.2ft/min
3. EOSS-52 20Oct01 1445.4ft/min

Lowest Continuous Ascent Rate (5 entries)
1. EOSS-50 (Pioneer Astronautics payload) 21Apr01 221.8ft/min
2. TV01D (TVNSP) 30Jun01 326.4ft/min
3. HABET-H43 (ISGC/ISU) 21Nov00 449.5ft/min

Longest Great Circle Distance (14 entries)
1. SSOK (WB?DRL) 08Jan00 703.02 Miles (Floater)
2. NS0-1 (NSBG/N3KKM) 25Mar00 152.73 Miles
3. EOSS-50 (Pioneer Astronautics payload) 21Apr01 138.79 Miles

Shortest Great Circle Distance (9 entries)
1. HABITAT SKYLAB (KA?JLF) 25Sep99 8.71 Miles
2. NS1-1 (NSBG/N3KKM) 28Apr01 9.80 Miles
3. KNSP-99E (KD4STH) 20Jun00 9.89 Miles

Longest Mission In Time (8 entries)
1. SSOK (WB?DRL) 08Jan00 14:01:39>19:28:10 5h26m31s
2. HamBONE-LD1 27Jun01 10:12>14:50z 4h38m
3. BEAR-1 27May00 15:13:33>19:46:36 4h33m03s

Heaviest Payload (4 entries)
1. Project HALO Rockoon (WB8ELK-KE4ROC-K4ZQM) 11May97 92.0 Pounds
2. HABET-H42 (ISGC/ISU) 08Sep00 49.0 Pounds
3. HABET-H43 (ISGC/ISU) 21Nov00 43.0 Pounds

Lightest payload (11 entries)
1. ITA-2 (Into Thin Air/KA2QPG) 19Mar00 0.21 Pounds
2. SQ3 (SkyQuest/N1LTV) 21May00 0.41 Pounds
3. ITA-3 (Into Thin Air/KA2QPG) 04Jun00 0.46 Pounds

Largest Balloon Envelope(s) (6 entries)
1. EOSS-50 21Apr01 52,729ft^3 KCI-3000 and 3xKCI-600
2(Tie). HABET-H42 (ISGC/ISU) 08Sep00 40,904ft^3 KCI-3000 and 2xKCI-100
2(Tie). HABET-H43 (ISGC/ISU) 21Nov00 40,904ft^3 KCI-3000 and 2xKCI-100

Smallest Balloon Envelope (1 entry)
1. SQ3 (SkyQuest/N1LTV) 21May00 500ft^3 KCI-200

Greatest Telemetry Downlink Reception Range (Two Categories)
VHF/UHF near line-of-sight (9 entries)
1. NSTAR-02F (N9XTN) 02Nov02 K5OL<Telemetry 440.5 Miles
2. NSTAR-02F (N9XTN) 02Nov02 K9KK<Telemetry 439.2 Miles
3. EOSS-52 20Oct01 KC?IUW & KC?IUY<Telemetry 394.1 Miles
HF via any mode of propagation (2 entries)
1. ITA-5 (Into Thin Air/KA2QPG) 15Nov00 W6VIO (N5BF opr)<Telemetry 2437
Miles
2. ITA-3 (Into Thin Air/KA2QPG) 04Jun2000 W?RPK<Telemetry 983 Miles

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance (7
entries)
1. EOSS-46 14Jan01 N?KQX<>N7DMO - 526 Miles
2. HABITAT SkyLab 07sep02 K9KK<>W?RPK - 478 Miles
3. HABITAT SkyLab 07sep02 K9KK<>K?RL - 460 Miles

Total Missions Flown (8 entries) (revised category)
1. EOSS (Edge of Space Sciences) 62 18Nov90-16Nov02
2. KNSP (KD4STH) 19 02Nov96-10Jul99
3. NSTAR (N9XTN) 13 07Oct00-02Nov02

Longest Recovery Time (5 entries)
1. ROMEG-1 (W4ETV) 04Jul90-18Apr92 653 Days
2. HamBONE-LD1 27Jun01-10Feb02 228 Days
3. Bill Brown, WB8ELK 09May98-04Dec98 209 Days

Touchdown Prediction Closest to Actual Coordinates (31 entries)
1. Eric Hauber ISU/HABET-L53 26Sep01 10kCC 0.23 Miles
2. Rick von Glahn, N?KKZ EOSS-57A 22Jun02 96kNB 1.09 Miles
3. Bill All, N3KKM NSTAR-01B 19May01 95kNB 1.25 Miles

337. Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 15:13:57 UTC
From: Mark Conner
Topic: 337 Message: 337

Note the proposed location and dates for GPSL 2003. Send your comments to Paul.

73 de Mark N9XTN

----- Original Message -----
From: verhap@...01.k12.id.us
To: tvnsp@yahoogroups.com
Sent: Friday, January 10, 2003 08:48
Subject: [tvnsp] GPSL 2003

Mike of EOSS is trying to line up GPSL in conjuction with another activity with the Colorado Space Grant. If this goes through, then GPSL 2003 will be held in the Denver area on 21 June. I need to get an idea of how many people think they can attend this. GPSL 2003 should be another two day event, with Friday set aside as a symposium and launches on Saturday morning. I'd like to line up crews to help with the launch and recovery, so a few people need to bring their mobile trackers.

Speak up!

Thanks,
Paul

To unsubscribe from this group, send an email to:
tvnsp-unsubscribe@egroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

338. Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 15:55:31 UTC
From: Don Pfister
Topic: 337 Message: 338

One thing that comes to my mind is "GPSL" stands for "Great Plains Super Launch" is west of the Colorado plains still part of the "Great Plains"? Just a question.

I've heard from some local groups that they will not be able to make that trip to CO. There was some discussion about local groups launching near here, at the same time as the western groups, and trying a link experiment or something.

After the western support last year, to make GPSL 2002 a great success, I will offer my support the best I can.

73 de Don KA0JLF

Isn't Paul on these lists?

Mark Conner wrote:

> Note the proposed location and dates for GPSL 2003. Send your comments to
> Paul. 73 de Mark N9XTN
> ----- Original Message -----
> From: verhap@...
> To: tvnsp@yahoogroups.comSent: Friday, January 10, 2003 08:48Subject: [tvnsp]
> GPSL 2003
> Mike of EOSS is trying to line up GPSL in conjuction with another
> activity with the Colorado Space Grant. If this goes through, then
> GPSL 2003 will be held in the Denver area on 21 June. I need to
> get an idea of how many people think they can attend this. GPSL
> 2003 should be another two day event, with Friday set aside as a
> symposium and launches on Saturday morning. I'd like to line up
> crews to help with the launch and recovery, so a few people need
> to bring their mobile trackers.
>
> Speak up!
>
> Thanks,
> Paul

--

[Signature File]
Name=Don Pfister KA0JLF

339. Re: [KNSP] Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 17:06:25 UTC
From: paul.verhage@boiseschools.org
Topic: 337 Message: 339

> Isn't Paul on these lists?

I'm here.

If GPSL 2003 is held in Colorado, EOSS will sponsor it. If it's held in Kansas, then I'll sponsor it.

At last year's GPSL, Mike Manes of EOSS asked about having them sponsor GPSL this year. I was a little hesitant at first, but at some time your children need to leave home.

Besides, I should be able to get more TVNSP support if it's in Colorado.

Paul

340. Re: [KNSP] Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 17:41:13 UTC
From: mgray@ess-us.com
Topic: 337 Message: 340

ANSR will be able to attend the Colorado based GPSL 2003. Colorado is a little easier because it is near a major airport vs. 2.5 hour drive. It is also less humid and they have Star Bucks. :) I'd also vote for the symposium. It makes it a little easier to justify the trip.

On Fri, 10 Jan 2003 paul.verhage@... wrote:

> > Isn't Paul on these lists?
>
> I'm here.
>
> If GPSL 2003 is held in Colorado, EOSS will sponsor it. If it's held
> in Kansas, then I'll sponsor it.
>
> At last year's GPSL, Mike Manes of EOSS asked about having
> them sponsor GPSL this year. I was a little hesitant at first, but at
> some time your children need to leave home.
>
> Besides, I should be able to get more TVNSP support if it's in
> Colorado.
>
> Paul
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

341. Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 18:14:50 UTC
From: Mark Conner
Topic: 337 Message: 341

If the winds are strong enough, it'll be the "Great Plains Super Landing" instead.

73 de Mark N9XTN

----- Original Message -----
From: "Don Pfister" <ka0jlf@...>
To: <GPSL@yahoogroups.com>
Cc: "KNSP List" <KNSP@yahoogroups.com>
Sent: Friday, January 10, 2003 09:55
Subject: Re: [GPSL] Fw: [tvnsp] GPSL 2003

> One thing that comes to my mind is "GPSL" stands for "Great Plains Super Launch"
> is west of the Colorado plains still part of the "Great Plains"? Just a
> question.

342. Contest

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 18:58:12 UTC
From: paul.verhage@boiseschools.org
Topic: 337 Message: 342

Marty's message to EOSS made me think of this.

Do we want to add contests to GPSL?
Perhaps highest flight or closest predicted landing.

Paul

343. History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 19:41:09 UTC
From: paul.verhage@boiseschools.org
Topic: 343 Message: 343

Here's what I currently have as a brief outline of amateur radio ballooning. Please look it over. I have a few blanks to fill and imagine I have missing events. Please forward them to me.

Thanks,
Paul

344. History Outline/spoke too fast!

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 19:42:47 UTC
From: paul.verhage@boiseschools.org
Topic: 343 Message: 344
Attachments: 2 described; binary payloads are missing from this source WARC

Here's my message with the history file!

> Here's what I currently have as a brief outline of amateur radio
> ballooning. Please look it over. I have a few blanks to fill and
> imagine I have missing events. Please forward them to me.
>
> Thanks,
> Paul
>
> To unsubscribe from this group, send an email to:
> EOSS-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

345. GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 20:07:56 UTC
From: wb8elk@aol.com
Topic: 345 Message: 345

Hi Paul and the group,

I'm planning on attending and launching something this year whereever it will be held.

- Bill WB8ELK

346. Re: [GPSL] History Outline/spoke too fast!

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-10 23:28:01 UTC
From: Zack Clobes
Topic: 343 Message: 346

Our flight was 22 April, 2001. It had my PIC-based controller, GPS-35,
VX-1R, and a cheap 35mm camera. I have a full write-up is at
http://www.rckara.org/project_traveler/2001a/

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

paul.verhage@... wrote:

>Here's my message with the history file!
>
>
>
>>Here's what I currently have as a brief outline of amateur radio
>>ballooning. Please look it over. I have a few blanks to fill and
>>imagine I have missing events. Please forward them to me.
>>
>>Thanks,
>>Paul
>>
>>To unsubscribe from this group, send an email to:
>>EOSS-unsubscribe@yahoogroups.com
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>>
>>
>>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>>
>>
>>
>>
>
>
>
>To unsubscribe from this group, send an email to:
>GPSL-unsubscribe@yahoogroups.com
>
>
>
>Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>
>
>--
>
>The following section of this message contains a file attachment

>prepared for transmission using the Internet MIME message format.
>If you are using Pegasus Mail, or any another MIME-compliant system,
>you should be able to save it or view it from within your mailer.
>If you cannot, please ask your system administrator for assistance.
>
> ---- File information -----------
> File: history.doc
> Date: 10 Jan 2003, 12:39
> Size: 28160 bytes.
> Type: Unknown
>
>

347. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-11 01:29:54 UTC
From: Don Pfister
Topic: 343 Message: 347

Paul you have HABITAT SkyLab's second or third launch listed as the first. Our first was in 1997, but I'll have to look at the video to see when it was. I think like in September and or October.

The one you listed was the one you attended, which was our second or third - something like that. I'll try to get videos out this weekend (I'll be working on video anyway) and get back to you.

Also, again I'll have to check - unless Bill N3KKM remembers (or someone else) - Bill flew his capsule with ours on one or two flights before flying solo. I think Mark did this (piggy back new capsule on experienced one) with Bill too. This seemed like a good practice if possible. ;-)

Don

paul.verhage@... wrote:

> Here's what I currently have as a brief outline of amateur radio
> ballooning. Please look it over. I have a few blanks to fill and
> imagine I have missing events. Please forward them to me.
>
> Thanks,
> Paul

--

[Signature File]
Name=Don Pfister KA0JLF

348. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-11 01:42:38 UTC
From: Don Pfister
Topic: 343 Message: 348

Oh, any idea if GPSL 1 was the first 6M simplex repeater flight? I flew one then, not sure I had heard of any before that. Do you want that kind of stuff too?

Don Pfister wrote:

> Paul you have HABITAT SkyLab's second or third launch listed as the first. Our
> first was in 1997, but I'll have to look at the video to see when it was. I
> think like in September and or October.
>
> The one you listed was the one you attended, which was our second or third -
> something like that. I'll try to get videos out this weekend (I'll be working on
> video anyway) and get back to you.
>
> Also, again I'll have to check - unless Bill N3KKM remembers (or someone else) -
> Bill flew his capsule with ours on one or two flights before flying solo. I
> think Mark did this (piggy back new capsule on experienced one) with Bill too.
> This seemed like a good practice if possible. ;-)
>
> Don
>
> paul.verhage@... wrote:
>
> > Here's what I currently have as a brief outline of amateur radio
> > ballooning. Please look it over. I have a few blanks to fill and
> > imagine I have missing events. Please forward them to me.
> >
> > Thanks,
> > Paul
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF

--

[Signature File]
Name=Don Pfister KA0JLF

349. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-11 19:07:02 UTC
From: paul.verhage@boiseschools.org
Topic: 343 Message: 349

I'd like to focus on the first repeater of any band.

Paul

> Oh, any idea if GPSL 1 was the first 6M simplex repeater flight? I flew one then,
> not sure I had heard of any before that. Do you want that kind of stuff too?
>
> Don Pfister wrote:
>
> > Paul you have HABITAT SkyLab's second or third launch listed as the first. Our
> > first was in 1997, but I'll have to look at the video to see when it was. I
> > think like in September and or October.
> >
> > The one you listed was the one you attended, which was our second or third -
> > something like that. I'll try to get videos out this weekend (I'll be working on
> > video anyway) and get back to you.
> >
> > Also, again I'll have to check - unless Bill N3KKM remembers (or someone else) -
> > Bill flew his capsule with ours on one or two flights before flying solo. I
> > think Mark did this (piggy back new capsule on experienced one) with Bill too.
> > This seemed like a good practice if possible. ;-)
> >
> > Don
> >
> > paul.verhage@... wrote:
> >
> > > Here's what I currently have as a brief outline of amateur radio
> > > ballooning. Please look it over. I have a few blanks to fill and
> > > imagine I have missing events. Please forward them to me.
> > >
> > > Thanks,
> > > Paul
> >
> > --
> >
> > [Signature File]
> > Name=Don Pfister KA0JLF
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
>
>
> To unsubscribe from this group, send an email to:

> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

350. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-11 20:13:27 UTC
From: wb8elk@aol.com
Topic: 343 Message: 350

Hi Paul,

I flew a crossband repeater (440 in and 10m AM and 2m FM out) and also a simplex repeater back in 1991 while I was living in Peterborough, NH....I'll dig into my records and get you exact dates. I found the simplex repeater in the bottom of an 80 foot-deep stone quarry (one of several flights that I launched by myself and found by myself)...as you can imagine it was very difficult to even locate the signal in the first place...I got very lucky.

73s de Bill WB8ELK

351. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-11 21:10:24 UTC
From: paul.verhage@boiseschools.org
Topic: 343 Message: 351

Thanks Bill. I'll need to know the dates to complete the history
section. Please get me those dates as soon as you can.

Paul

> I flew a crossband repeater (440 in and 10m AM and 2m FM out) and also a
> simplex repeater back in 1991 while I was living in Peterborough, NH....I'll
> dig into my records and get you exact dates. I found the simplex repeater in
> the bottom of an 80 foot-deep stone quarry (one of several flights that I
> launched by myself and found by myself)...as you can imagine it was very
> difficult to even locate the signal in the first place...I got very lucky.
>
> 73s de Bill WB8ELK
>
>
>
>
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> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

352. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-13 06:58:16 UTC
From: Don Pfister
Topic: 343 Message: 352

Paul, our first successful flight of HABITAT SkyLab was Oct. 4, 1997.

73
Don KA0JLF

paul.verhage@... wrote:

> Here's what I currently have as a brief outline of amateur radio
> ballooning. Please look it over. I have a few blanks to fill and
> imagine I have missing events. Please forward them to me.
>
> Thanks,
> Paul

--

[Signature File]
Name=Don Pfister KA0JLF
Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
email: habitat@...

353. Re: [GPSL] History Outline

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-13 14:17:01 UTC
From: paul.verhage@boiseschools.org
Topic: 343 Message: 353

Can you give me the location of the launch and the payload?

Paul

> Paul, our first successful flight of HABITAT SkyLab was Oct. 4, 1997.
>
> 73
> Don KA0JLF
>
> paul.verhage@... wrote:
>
> > Here's what I currently have as a brief outline of amateur radio
> > ballooning. Please look it over. I have a few blanks to fill and
> > imagine I have missing events. Please forward them to me.
> >
> > Thanks,
> > Paul
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
> email: habitat@...
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

354. Re: [KNSP] Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-18 13:17:57 UTC
From: Don Pfister
Topic: 337 Message: 354

Ok, I sit corrected. ;-) I was thinking the suggested site was West of Denver.

I did mention the plains extend to Eastern CO, I just didn't remember how far west Eastern CO went. ;-) I guess we were both right, just that I was thinking farther West. What is that old saying "you don't have to understand something to argue about it"? :-) I didn't mean to argue.

As I recall (sitting here on my brains and not checking again) - it has been several years - Denver could be considered the 'High Plains', the mountains don't really start until you get a few miles west. ;-)

I will have to get a map out, I keep reading about Deer Trail but don't remember seeing that.

Yes a landing in the mountains concerns me too - but what can you expect I'm a flatlander again. ;-)

I hope to make it but it's still a ways off. The date concerns me, the earlier mentioned date might have been doable (time wise) but the newer date is going to conflict with a previous commitment I'm afraid. I have two riders after me to crew for them during this years RAAM 2003 (http://raceacrossamerica.org/raam2003/raam2003main.htm there is a link on my HABITAT SkyLab page to a photo of me at the starting area for RAAM 2002). It is scheduled for June 15 to June 27. My local friend Byron is going to ride as one of a 2 man team. My Italian friend Fabio is riding as a solo. I crewed for both of them last year. I started with Fabio - when he dropped I joined Byron's crew team.

In between I got to spend about 3 days in the beautiful Aspen, CO area. ;-)

Byron, had agreed to get me to Denver for GPSL 2003 - flying me from the East Coast to Denver. However, that would leave me with out a balloon or equipment (which could be overcome). The plan is to be in San Diego on Sunday the 15th to watch (and support) the Solo riders start. I guess this might work - fly to Denver for GPSL then fly from Denver to San Diego for the start of RAAM (I might even get to see my nephews family - he just got back from deployment in the P. gulf). I'll check with people. ;-) Since I will be using my mobile APRS stuff for RAAM too - I'll have it all with me. Hmm... If none of the rest of my crew can make it, this would make me a solo and possibly no wheels. Probably more trouble than it is worth. We'll see.

Thanks for the Geography lesson (and corrections) Mike! I appreciate it.

I'll see what we can do. I can't commit 100% either way. Please keep me updated on plans.

Don

Mike Manes wrote:

> Hi Don,
>
> Well, I guess I've never seen a map strictly delimiting "The Great
> Plains", but in Colorado, any place east of I-25 is as flat and
> featureless a plain as one might imagine; eastern KS is a dense forest
> in comparison! And I'm considering the town of Deer Trail, on I-70
> about 50 miles E of Denver (and I-25) as the GPSL launch site. This
> also puts you 50 miles closer to home than if we were to launch
> closer to our home!
>
> The reason of this choice is to avoid a westerly landing, in the
> mountains or in the back yards of the burgeoning sprawlburbia
> surrounding Denver.
>
> Hope you can make it! It'll be a blast to see 6 (or more!) big
> bags soar into the blue simultaneously!
>
> 73 de Mike W5VSI, EOSS
>
> Don Pfister wrote:
> >
> > One thing that comes to my mind is "GPSL" stands for "Great Plains Super Launch"
> > is west of the Colorado plains still part of the "Great Plains"? Just a
> > question.
> >
> > I've heard from some local groups that they will not be able to make that trip
> > to CO. There was some discussion about local groups launching near here, at the
> > same time as the western groups, and trying a link experiment or something.
> >
> > After the western support last year, to make GPSL 2002 a great success, I will
> > offer my support the best I can.
> >
> > 73 de Don KA0JLF
> >
> > Isn't Paul on these lists?
> >
> > Mark Conner wrote:
> >
> > > Note the proposed location and dates for GPSL 2003. Send your comments to
> > > Paul. 73 de Mark N9XTN
> > > ----- Original Message -----
> > > From: verhap@...
> > > To: tvnsp@yahoogroups.comSent: Friday, January 10, 2003 08:48Subject: [tvnsp]
> > > GPSL 2003
> > > Mike of EOSS is trying to line up GPSL in conjuction with another
> > > activity with the Colorado Space Grant. If this goes through, then
> > > GPSL 2003 will be held in the Denver area on 21 June. I need to
> > > get an idea of how many people think they can attend this. GPSL
> > > 2003 should be another two day event, with Friday set aside as a
> > > symposium and launches on Saturday morning. I'd like to line up
> > > crews to help with the launch and recovery, so a few people need

> > > to bring their mobile trackers.
> > >
> > > Speak up!
> > >
> > > Thanks,
> > > Paul
> >
> > --
> >
> > [Signature File]
> > Name=Don Pfister KA0JLF
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors

Founder of HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
email: habitat@...
http://habitat.netlab.org
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing.

355. Re: [KNSP] Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-18 21:45:38 UTC
From: Don Pfister
Topic: 337 Message: 355

Good thing I asked for clarification. ;-)

Actually, I just wanted you all to know another HABITAT SkyLab team member just passed his Technician Test this morning. Charles "Charlie" Callahan should get his license issued around next Thursday (according to the VEs giving his test).

Welcome to HAM RADIO Charlie! OH he also won a door prize at the St. Joe, MO hamfest (his first hamfest). ;-)

73 all
Don

Mike Manes wrote:

> Hi Don,
>
> Well, I guess I've never seen a map strictly delimiting "The Great
> Plains", but in Colorado, any place east of I-25 is as flat and
> featureless a plain as one might imagine; eastern KS is a dense forest
> in comparison! And I'm considering the town of Deer Trail, on I-70
> about 50 miles E of Denver (and I-25) as the GPSL launch site. This
> also puts you 50 miles closer to home than if we were to launch
> closer to our home!
>
> Don Pfister wrote:
> >
> > One thing that comes to my mind is "GPSL" stands for "Great Plains Super Launch"
> > is west of the Colorado plains still part of the "Great Plains"? Just a
> > question.

--

[Signature File]
Name=Don Pfister KA0JLF
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Founder of HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
email: habitat@...
http://habitat.netlab.org

356. Re: [tvnsp] Today's Day in History

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-27 05:34:13 UTC
From: Mike Manes
Topic: 356 Message: 356

Hi Paul,

Yes. Let's plan it for 13-15 June '03. Chris Koehler has agreed to supply a venue at the CU Boulder campus for our Friday meeting, and I'll arrange for a launch site in Deer Trail for Sat (backup Sunday).

What sort of meeting times work for you? I think that a 0900 launch is workable. And I think that I can line up discount room rates not too far from the meeting site (although Boulder per se is $$$!).

Once we get some attending flights confirmed, EOSS can also arrange for He on site, as you did last year. And EOSS will also handle the FAA position reports (Deer Trail is just outside DIA Class A airspace).

73 de Mike W5VSI

VERHAP@... wrote:
>
> > Look forward to seeing you at GPSL! Note that Chris Koehler has
> > asked to move the joint GPSL / CU SGC Workshop from 20-22 June to
> > 13-15 June. Hope you can make it.
>
> Is it going to happen? I'll need to know soon.
>
> Paul

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

357. Re: [tvnsp] Today's Day in History

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-30 05:21:08 UTC
From: Mike Manes
Topic: 356 Message: 357

Hi Harry,

Sorry to hear you have a schedule conflict. I do know how tough it
is to reserve a cabin or even a campsite at the GC. But do drop by
if you can when you come thru Denver - we're a mere 50 miles W of
Deer Trail on I-70 / I-25 :=}

73 de Mike

> Harry M wrote:
>
> Hi Mike,
>
> > Look forward to seeing you at GPSL!
>
> Unfortunatly I won't be able to make it to GPSL during any
> part of June. I will be in the Grand Canyon with my son. I
> really enjoyed last years GPSL. It was great to meet everyone.
>
> I am still thinking about coming to Deer Trail next weekend,
> but I really won't know until the last minute.
>
> > The tough part about using the DJ-Cx radios is getting to the 50-ohm
> > RF I/O port
>
> Thanks for the info on the DJ-Cx's.
> Do you have a pic that shows what you explained above?
>
>
> I found this great pic of LCL! (see below)
>
>
> Thanks Mike!
>
> 73 - Harry
> KC5TRB
>
>
> ------------------------------------
> The truest forms of experimentation
> and invention have no purpose
> -- it's pure curiosity and challenge.
> ------------------------------------
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

358. [Fwd: [tvnsp] Official GPSL 2003 Date]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-28 06:27:24 UTC
From: Mike Manes
Topic: 358 Message: 358

HI Folks,

Mark your calendars! This date is a week earlier than we originally planned for the joint CU Spacegrant Balloonsat Workshop / Great Plains Super Launch '03. Hope we can see an even more spectacular launch this year!

73 de Mike W5VSI
EOSS

-------- Original Message --------
Subject: [tvnsp] Official GPSL 2003 Date
Date: Mon, 27 Jan 2003 07:21:17 -700
From: <verhap@...>
Reply-To: tvnsp@yahoogroups.com
To: tvnsp@yahoogroups.com

Here it is folks. Let's start planning at the next meeting.

Paul

------- Forwarded Message Follows -------
Date sent: Sun, 26 Jan 2003 22:34:13 -0700
From: Mike Manes <manes@...>
To: VERHAP@...,
Chris Koehler - CU Space Grant <koehler@...>
Copies to: GPSL Reflector <GPSL@yahoogroups.com>
Subject: Re: [tvnsp] Today's Day in History

Hi Paul,

Yes. Let's plan it for 13-15 June '03. Chris Koehler has agreed to supply a venue at the CU Boulder campus for our Friday meeting, and I'll arrange for a launch site in Deer Trail for Sat (backup Sunday).

What sort of meeting times work for you? I think that a 0900 launch is workable. And I think that I can line up discount room rates not too far from the meeting site (although Boulder per se is $$$!).

Once we get some attending flights confirmed, EOSS can also arrange for He on site, as you did last year. And EOSS will also handle the FAA position reports (Deer Trail is just outside DIA Class A airspace).

73 de Mike W5VSI

VERHAP@... wrote:
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> > asked to move the joint GPSL / CU SGC Workshop from 20-22 June to
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> Is it going to happen? I'll need to know soon.
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--
Mike Manes manes@... Tel: 303-979-4899
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To unsubscribe from this group, send an email to:
tvnsp-unsubscribe@egroups.com

Your use of Yahoo! Groups is subject to
http://docs.yahoo.com/info/terms/

359. Re: [KNSP] Re: [GPSL] Fw: [tvnsp] GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-01-30 05:15:04 UTC
From: Mike Manes
Topic: 337 Message: 359

Hi Don,

Well, don't sweat the bit about nbot knowing the eastern half of
Colo being a plain - the Visitors' Bureau doesn't advertise that part
much :=}. So if you win a free vacation to Club Med Hugo, CO, don't
bother waxing up the skis.

Sounds like a pretty messy itinerary. I hope maybe you can get
some of your HABITAT cohorts to bring out a balloon and payload, tho.
If not, then we'd still sure love to see you again and put you to work
on the launch and/or recovery crews. The Spacegrant folks might be
grateful for any help they can get assembing the payload strings as
well.

BTW, wot's RAAM? A balloon race?

73 de Mike W5VSI

Don Pfister wrote:
>
> Ok, I sit corrected. ;-) I was thinking the suggested site was West of Denver.
>
> I did mention the plains extend to Eastern CO, I just didn't remember how far west
> Eastern CO went. ;-) I guess we were both right, just that I was thinking farther
> West. What is that old saying "you don't have to understand something to argue about
> it"? :-) I didn't mean to argue.
>
> As I recall (sitting here on my brains and not checking again) - it has been several
> years - Denver could be considered the 'High Plains', the mountains don't really start
> until you get a few miles west. ;-)
>
> I will have to get a map out, I keep reading about Deer Trail but don't remember
> seeing that.
>
> Yes a landing in the mountains concerns me too - but what can you expect I'm a
> flatlander again. ;-)
>
> I hope to make it but it's still a ways off. The date concerns me, the earlier
> mentioned date might have been doable (time wise) but the newer date is going to
> conflict with a previous commitment I'm afraid. I have two riders after me to crew for
> them during this years RAAM 2003
> (http://raceacrossamerica.org/raam2003/raam2003main.htm there is a link on my HABITAT
> SkyLab page to a photo of me at the starting area for RAAM 2002). It is scheduled for
> June 15 to June 27. My local friend Byron is going to ride as one of a 2 man team. My
> Italian friend Fabio is riding as a solo. I crewed for both of them last year. I
> started with Fabio - when he dropped I joined Byron's crew team.

>
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> Denver. However, that would leave me with out a balloon or equipment (which could be
> overcome). The plan is to be in San Diego on Sunday the 15th to watch (and support)
> the Solo riders start. I guess this might work - fly to Denver for GPSL then fly from
> Denver to San Diego for the start of RAAM (I might even get to see my nephews family -
> he just got back from deployment in the P. gulf). I'll check with people. ;-) Since I
> will be using my mobile APRS stuff for RAAM too - I'll have it all with me. Hmm... If
> none of the rest of my crew can make it, this would make me a solo and possibly no
> wheels. Probably more trouble than it is worth. We'll see.
>
> Thanks for the Geography lesson (and corrections) Mike! I appreciate it.
>
> I'll see what we can do. I can't commit 100% either way. Please keep me updated on
> plans.
>
> Don

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

360. Re: June gathering

Yahoo group: GPSL (2002 — 2008)
Date: 2003-03-11 19:22:05 UTC
From: Mike Manes
Topic: 360 Message: 360

Hi Ralph,

Yep! You got the details down pat. And you've given me the proper cage-rattle to round up motel and RV park sites near Boulder and a spot for dinner Friday evening. Been gill-deep in some new EOSS payloads.

Looking forward to working with you again. BTW, will you be flying a balloon this time?

73 de Mike W5VSI, EOSS

"Ralph Wallio, W0RPK" wrote:
>
> Mike,
>
> Double checking plans for June meeting at CU-Boulder before making
> semi-final decisions at this end.
>
> Assuming the meeting is still on, our family is planning on traveling to see
> my sister and family in Cedaredge and then touring Utah the previous week.
> We would drive to Boulder from Salt Lake City on Thursday, June 12th, so I
> can be with you all day on Friday.
>
> A couple of assumptions I have been making. First, there will be a
> gathering for supper on Friday evening and family members are invited.
> Second, there will be a mass launch attempt on Saturday morning and, if I
> remember correctly, it will be at Deer Trail.
>
> Our plan would be to drive to the launch site from Boulder early Saturday
> morning, be there for the launch and then saddle up and head east to
> Lawrence, Kansas.
>
> Mother and Daughter are looking forward to another long shopping trip on
> Pearl Street Mall in Boulder during our meeting on Friday.
>
> Does all of this seem to fit your plans?
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://members.crosspaths.net/wallio
> Hubbert's Peak: The Mother of all Perfect Storms

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.

Einstein

361. Re: June gathering

Yahoo group: GPSL (2002 — 2008)
Date: 2003-03-22 02:38:40 UTC
From: Mike Manes
Topic: 360 Message: 361

Hi Ralph,

I hope you'll stick around long enough to watch the launch and
chat with some of the students. In fact, if you can spare an hour
or so, we'd be delighted if you could participate with the tracking
and recovery crews - the landing sites may not be too far away from
your route home.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> >
> > Looking forward to working with you again. BTW, will you be flying
> > a balloon this time?
> >
>
> Mike,
>
> I apologize for my delay in responding. I have been down and out since
> Wednesday last with a malady yet to be named but I am finally crawling back
> to reality.
>
> No, I will not be able to joint the launch. Our schedule of other
> commitments requires we arrive in Lawrence on Saturday afternoon and then
> home on Saturday evening. I am happy to be able to stop at Deer Trail for
> an hour or so as we head east from Boulder on Saturday morning.
>
> Thanks for taking on the responsibility of arrangements for GPSL-2003!
>
> TNX es 73 de Ralph W0RPK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

362. GPSL 2003 Schedule?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-03-27 20:28:47 UTC
From: paul.verhage@boiseschools.org
Topic: 360 Message: 362

Anything on the schedule?

I'd like to present on the flights of Explorer 1 and 2.

I may be short handed again, so will need help getting my capsule airborne.

Paul

363. Re: [GPSL] GPSL 2003 Schedule?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-02 05:39:40 UTC
From: Mike Manes
Topic: 360 Message: 363

Hi Paul,

Sorry for slow reply -- been up to gills in getting EOSS-64 up and off. It was a huge success, BTW, despite Murphy's getting his digs in. The FAA was delighted with the findu.com reporting of both the payload and balloon APRS beacons. This is a real advance for amateur ballooning's relationship with the FAA. I hope Russ Chadwick will be willing to present on it at GPSL as well.

And yes, the program's started forming with your proposal, Paul. And EOSS should have plenty of extra folks on hand to help you with your launch - I assume you'll be needing He? How much?

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Anything on the schedule?
>
> I'd like to present on the flights of Explorer 1 and 2.
>
> I may be short handed again, so will need help getting my capsule
> airborne.
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
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>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

364. Re: [GPSL] GPSL 2003 Schedule?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-02 14:20:59 UTC
From: paul.verhage@boiseschools.org
Topic: 360 Message: 364

> And yes, the program's started forming with your proposal, Paul.
> And EOSS should have plenty of extra folks on hand to help you with
> your launch - I assume you'll be needing He? How much?

Sounds great. I'll use a tank and a half (I can split a tank with
someone).

Paul

365. ARHAB Records 1st qtr 2003 update

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-02 22:37:57 UTC
From: Ralph Wallio, W0RPK
Topic: 365 Message: 365

Amateur Radio High Altitude Balloon Records
First quarter 2003 update
Compete list of records is available at
http://users.crosspaths.net/wallio/RECORDS.html

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Hubbert's Peak: The Mother of all Perfect Storms

Highest GPS Reported Altitude (ASL)
1. Norm Kjome (KB7ZJT) 20Mar99 120,522ft ASL (SA)
2. SSOK (WB?DRL) 08Jan00 117,460ft ASL (SA)
3. KNSP-99A (KD4STH) 06Feb99 114,399ft ASL (SA)

Lowest Reported Maximum Altitude (AGL)
1. HABET-H30 (ISGC/ISU) 02Mar00 4,903ft AGL
2. HABET-H36 (ISGC/ISU) 30Mar00 13,511ft AGL
3. HABET-H42 (ISGC/ISU) 08Sep00 16,301ft AGL

Highest Continuous Ascent Rate (averaged over >10,000ft)
1. EOSS-54 23Feb02 1584.9ft/min
2. TV?2D (TVNSP) 03Aug02 1519.2ft/min
3. EOSS-52 20Oct01 1445.4ft/min

Lowest Continuous Ascent Rate (averaged over >10,000ft)
1. EOSS-50 (Pioneer Astronautics payload) 21Apr01 221.8ft/min
2. TV01D (TVNSP) 30Jun01 326.4ft/min
3. HABET-H43 (ISGC/ISU) 21Nov00 449.5ft/min

Longest Great Circle Distance, Release to Touchdown
1. SSOK (WB?DRL) 08Jan00 703.02 Miles (Floater)
2. Suntracker VI (Wayne State Univ) 07Dec02 187.03 Miles
3. NS0-1 (NSBG/N3KKM) 25Mar00 152.73 Miles

Shortest Great Circle Distance, Release to Touchdown (at least 50kft maximum altitude ASL)
1. HABITAT SKYLAB (KA?JLF) 25Sep99 8.71 Miles
2. NS1-1 (NSBG/N3KKM) 28Apr01 9.80 Miles
3. KNSP-99E (KD4STH) 20Jun00 9.89 Miles

Longest Mission In Time, Release to Touchdown
1. SSOK (WB?DRL) 08Jan00 14:01:39>19:28:10 5h26m31s (Last GPS data right after burst)
2. HamBONE-LD1 27Jun01 10:12>14:50z 4h38m
3. BEAR-1 (Balloon Experiments with Amateur Radio) 27May00 15:13:33>19:46:36 4h33m03s

Heaviest Payload
1. Project HALO Rockoon (WB8ELK-KE4ROC-K4ZQM) 11May97 92.0 Pounds
2. HABET-H42 (ISGC/ISU) 08Sep00 49.0 Pounds
3. HABET-H43 (ISGC/ISU) 21Nov00 43.0 Pounds

Lightest payload
1. ITA-2 (Into Thin Air/KA2QPG) 19Mar00 0.21 Pounds - Voltage and Temperatures via 10M CW
2. SQ3 (SkyQuest/N1LTV) 21May00 0.41 Pounds - 2m CW/RTTY Voltage and Temperatures
3. ITA-3 (Into Thin Air/KA2QPG) 04Jun00 0.46 Pounds - Voltage/Pressure/Temperatures via 10M CW

Largest Balloon Envelope(s) (Fully Expanded Volume)
1. EOSS-50 (Pioneer Astronautics payload) 21Apr01 52,729ft^3 KCI-3000 and 3xKCI-600
2(Tie). HABET-H42 (ISGC/ISU) 08Sep00 40,904ft^3 KCI-3000 and 2xKCI-100
2(Tie). HABET-H43 (ISGC/ISU) 21Nov00 40,904ft^3 KCI-3000 and 2xKCI-100
3(Tie). SSOK (WB?DRL) 08Jan00 40,626ft^3 KCI-3000
3(Tie). BOI-2 (Balloons Over Idaho) 27May00 40,626ft^3 KCI-3000
3(Tie). Norm Kjome (KB7ZJT) 20Mar99 40,626ft^3 KCI-3000

Smallest Balloon Envelope (Fully Expanded Volume)
1. SQ3 (SkyQuest/N1LTV) 21May00 500ft^3 KCI-200 2m CW/RTTY Voltage and Temperatures

Greatest Telemetry Downlink Reception Range (Two Categories)
VHF/UHF near line-of-sight
1. NSTAR-02F (N9XTN) 02Nov02 K5OL<Telemetry 440.5 Miles 2m APRS Telemetry
2. NSTAR-02F (N9XTN) 02Nov02 K9KK<Telemetry 439.2 Miles 2m APRS Telemetry
3. EOSS-52 20Oct01 KC?IUW & KC?IUY<Telemetry 394.1 Miles 2m APRS Telemetry
HF via any mode of propagation
1. ITA-5 (Into Thin Air/KA2QPG) 15Nov00 W6VIO (N5BF opr)<Telemetry 2437 Miles - 10m CW Telemetry
2. ITA-3 (Into Thin Air/KA2QPG) 04Jun2000 W?RPK<Telemetry 983 Miles - 10m CW Telemetry

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance
1. EOSS-46 14Jan01 N?KQX<>N7DMO - 526 Miles - 70cm/2m Voice
2. HABITAT SkyLab 07sep02 K9KK<>W?RPK - 478 Miles - 2m Simplex Repeater
3. HABITAT SkyLab 07sep02 K9KK<>K?RL - 460 Miles - 2m Simplex Repeater

Total Missions Flown
1. EOSS (Edge of Space Sciences) 64 18Nov90-30Mar03
2. KNSP (KD4STH) 19 02Nov96-10Jul99 (inert)
3. NSTAR (N9XTN) 14 07Oct00-15Mar03

Longest Recovery Time (any method)
1. ROMEG-1 (W4ETV) 04Jul90-18Apr92 653 Days
2. HamBONE-LD1 27Jun01-10Feb02 228 Days
3. Bill Brown, WB8ELK 09May98-04Dec98 209 Days

Touchdown Prediction Closest to Actual Coordinates
1. Eric Hauber ISU/HABET-L53 26Sep01 10kCC 0.23 Miles
2. Rick von Glahn, N?KKZ EOSS-57A 22Jun02 96kNB 1.09 Miles
3. Bill All, N3KKM NSTAR-01B 19May01 95kNB 1.25 Miles

366. Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-03 23:19:59 UTC
From: Mike Manes
Topic: 345 Message: 366

Hi Mike,

Well, as I mentioned to Paul, the agenda is forming as folks step forward with material they'd like to present. So far, we have Paul's bit on his Traveler flights, and I'm hoping that Russ KB0TVJ will talk about the new FAA reporting feature on findu.com. I could do a show & tell on some of our new payloads, e.g. the despun ATV. EOSS could also cover some of the more interesting flights we'll have flown since the last GPSL, e.g GAINS and Big Blue.

I'd think that the group would be eager to learn more about your glider and how you've been dealing with FAA Seattle's concerns related to the "Predator" ROA requirements.

Incidentally, I'm not real certain who's on this reflector right now, and how many others balloon groups plan to attend the conference and/or the flight. Ralph Wallio does plan on a cameo appearance, however; perhaps he can be persuaded to delight us further!

Mike Manes W5VSI

Michael Gray wrote:
>
> Mike,
>
> Just wondered what topics were open for presentation at GPSL 2003 and if
> there was anything you would like us to present on?
>
> 73s

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

367. Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-05 01:03:44 UTC
From: Mike Manes
Topic: 345 Message: 367

Hi Mike,

Any of those topics are likely to be of interest to the group. Since
only two folks have stepped up so far with presentations, I'm
reluctant to set a time limit on any single presentation, however.
But I sure don't want to drag the Friday session out too late, since
the launch site is about 80 miles from Boulder, and I hope to get the
launch off by 0900 Saturday.

BTW, I expect ANSR to be operating one of the three CU Workshop flight
strings. You'll have about 5 lb weight budget for your own beacons.
How much He should we have on hand for ya?

Re the ROA:
I filed for a waiver with FAA Seattle for the EOSS-66 / U Ky Big Blue
glider, since it weighs in at about 15#. I got a call back from
a Gordy Burnet, who cited a 1999 ruling from FAA brass related to
flights of ROAs (formerly UAVs) in civil airspace. Among the reqmts
are an altitude-reporting transponder, navigation lights & strobe,
and full hemisphere visualization and real-time control by the
ground operator for VFR collision avoidance. Ref FAA Notice N 7610.71.
These requirements are reasonable for a USAF "Predator", but off the
wall for a 15# model aeroplane. The rule of unintended consequences?

Now, if you can keep your glider under 6 lb, you won't face the FAA
scrutiny, but that doesn't change the fact that the rule is in place,
regardless of FAR-101.

We're still negotiating with Seattle, but the best we might hope for
would be a parachute descent below 60K'.

73 de Mike W5VSI

Michael Gray wrote:
>
> Mike,
>
> The glider sounds good. We should fly in the next couple of weeks. The
> flight would have been a week ago, but we lost some flight hardware, so I
> had to regroup a little.
>
> Other topics might include; (1) Micro Beacon II design. 2" x 3" complete
> APRS system and (2) In flight landing prediction (< 0.5 miles from
> 100,000'). I have also produced a 15 minute DVD that shows all about
> balloon flights. It might be a good way to start the proceedings.
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> I haven't heard of the anything on the FAA concerns from Seattle. Although

> I figured it would only be a matter of time before the terrorists win and
> we loose. After a few balloon flights, I'd like to fly a cross band
> repeater UAV that could loiter for a couple days. A couple gallons of jet
> A and a light aircraft can fly a long time.
>
> Thanks for organizing everything. Jack and I will attend.
>
> At 04:19 PM 04/03/2003 -0700, you wrote:
> >Hi Mike,
> >
> >Well, as I mentioned to Paul, the agenda is forming as folks step
> >forward with material they'd like to present. So far, we have
> >Paul's bit on his Traveler flights, and I'm hoping that Russ KB0TVJ
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Einstein

368. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-05 09:38:24 UTC
From: Michael Gray
Topic: 345 Message: 368

Mike,

I'll step forward and offer the following presentations, but feel free to alter them to suit the schedule and group.

Introduction
I have a 15 minute edited DVD that shows all aspects of high altitude ballooning. We use it as a general introduction to ballooning. It might make a good opening to the proceedings for those who may not be familiar with our hobby.

Session 1 - Topics in Electronics and Software (45-60 minutes)
A. In-flight landing prediction (we typically get an estimate of < 0.5 miles at 100,000')
B. Compact-light weight APRS Beacon design
C. IRLP/cross band repeaters
D. SSTV from the 70s revisited in digital

Session 2 - NSRV (Near Space Return Vehicle) (45-60 minutes)
A. Flight data from powered UAV
B. Control systems and electronics
C. Flight data from balloon flight (we will fly before June)

I've given the presentations a number of times, so I can change the length to suit your schedule.

Thanks for the FAA information. I am working the issue at our end. Hopefully we'll have a better outcome. A parachute descent from 60,000' doesn't really do us much good.

73s de Michael Gray, ANSR

At 06:03 PM 04/04/2003 -0700, you wrote:
>Hi Mike,
>
>Any of those topics are likely to be of interest to the group. Since
>only two folks have stepped up so far with presentations, I'm
>reluctant to set a time limit on any single presentation, however.
>But I sure don't want to drag the Friday session out too late, since
>the launch site is about 80 miles from Boulder, and I hope to get the
>launch off by 0900 Saturday.
>
>BTW, I expect ANSR to be operating one of the three CU Workshop flight
>strings. You'll have about 5 lb weight budget for your own beacons.
>How much He should we have on hand for ya?
>
>Re the ROA:

>I filed for a waiver with FAA Seattle for the EOSS-66 / U Ky Big Blue
>glider, since it weighs in at about 15#. I got a call back from
>a Gordy Burnet, who cited a 1999 ruling from FAA brass related to
>flights of ROAs (formerly UAVs) in civil airspace. Among the reqmts
>are an altitude-reporting transponder, navigation lights & strobe,
>and full hemisphere visualization and real-time control by the
>ground operator for VFR collision avoidance. Ref FAA Notice N 7610.71.
>These requirements are reasonable for a USAF "Predator", but off the
>wall for a 15# model aeroplane. The rule of unintended consequences?
>
>Now, if you can keep your glider under 6 lb, you won't face the FAA
>scrutiny, but that doesn't change the fact that the rule is in place,
>regardless of FAR-101.
>
>We're still negotiating with Seattle, but the best we might hope for
>would be a parachute descent below 60K'.
>
>73 de Mike W5VSI
>
>Michael Gray wrote:
>>
>> Mike,
>>
>> The glider sounds good. We should fly in the next couple of weeks. The
>> flight would have been a week ago, but we lost some flight hardware, so I
>> had to regroup a little.
>>
>> Other topics might include; (1) Micro Beacon II design. 2" x 3" complete
>> APRS system and (2) In flight landing prediction (< 0.5 miles from
>> 100,000'). I have also produced a 15 minute DVD that shows all about
>> balloon flights. It might be a good way to start the proceedings.
>>
>> I haven't heard of the anything on the FAA concerns from Seattle. Although
>> I figured it would only be a matter of time before the terrorists win and
>> we loose. After a few balloon flights, I'd like to fly a cross band
>> repeater UAV that could loiter for a couple days. A couple gallons of jet
>> A and a light aircraft can fly a long time.
>>
>> Thanks for organizing everything. Jack and I will attend.
>>
>> At 04:19 PM 04/03/2003 -0700, you wrote:
>> >Hi Mike,
>> >
>> >Well, as I mentioned to Paul, the agenda is forming as folks step
>> >forward with material they'd like to present. So far, we have
>> >Paul's bit on his Traveler flights, and I'm hoping that Russ KB0TVJ
>> >will talk about the new FAA reporting feature on findu.com. I could
>> >do a show & tell on some of our new payloads, e.g. the despun ATV.
>> >EOSS could also cover some of the more interesting flights we'll have
>> >flown since the last GPSL, e.g GAINS and Big Blue.

>> >
>> >I'd think that the group would be eager to learn more about your
>> >glider and how you've been dealing with FAA Seattle's concerns
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>> >
>> >Incidentally, I'm not real certain who's on this reflector right now,
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>> >the flight. Ralph Wallio does plan on a cameo appearance, however;
>> >perhaps he can be persuaded to delight us further!
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>> >Mike Manes W5VSI
>> >
>> >Michael Gray wrote:
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>> >> Mike,
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>> >> Just wondered what topics were open for presentation at GPSL 2003 and if
>> >> there was anything you would like us to present on?
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>> >"Things should be made as simple as possible, but not more so." A.
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>
>
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>GPSL-unsubscribe@yahoogroups.com
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>
>

369. My plans for GPSL2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-06 14:13:00 UTC
From: Ralph Wallio, W0RPK
Topic: 369 Message: 369

Schedule for my 'cameo appearance' at GPSL2003. We, wife Sharon, daughter Steph and self, will arrive in Boulder Thursday afternoon, June 12th, from Salt Lake City via the University of Wyoming at Laramie. We will leave the area Saturday morning via the launch site at Deer Trail to arrive in Lawrence, Kansas late that afternoon.

I/we will be available for an informal gathering and meal in Boulder on Thursday evening, paper presentations and discussion on Friday at CU-Boulder, a more formal meal on Friday evening in Boulder and the launch from Deer Trail on Saturday morning. I will not be flying a mission or payload.

On Friday I could present paper(s) on --

Solar Floater (see http://users.crosspaths.net/wallio/SolarFloater.html) which I still hope to fly for the first time in May

Radio Mobile Deluxe payload communications footprint predictions (see http://users.crosspaths.net/wallio/Radio%20Mobile.html)

Link Budget Analysis (see http://users.crosspaths.net/~wallio/LINKbudg.html)

Predictions from Mean Zonal Winds (see http://users.crosspaths.net/~wallio/MZW.html)

Packet Radio Bit Error Rate (see http://users.crosspaths.net/~wallio/ber.html)

and/or lead a discussion about our collective Amateur Radio High Altitude Ballooning Records (see http://users.crosspaths.net/wallio/RECORDS.html)

You folks vote on which, if any, you want to be amused, bored and/or entertained about.

On Saturday morning I could be our official kibitzer to the public, students, et al., that may need an explanation or two during preparations and launch (after which we will be heading east on I70).

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Hubbert's Peak: The Mother of all Perfect Storms

370. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-06 20:16:46 UTC
From: paul.verhage@boiseschools.org
Topic: 345 Message: 370

> Well, as I mentioned to Paul, the agenda is forming as folks step
> forward with material they'd like to present. So far, we have
> Paul's bit on his Traveler flights,

Explorer flights.

Paul

371. RE: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-06 21:57:18 UTC
From: Gene Harlan
Topic: 345 Message: 371

Paul,

I am putting together the Spring issue of ATVQ. Do you want to give me more details of GPSL 2003 to publish. Otherwise, I will publish what little I have. I need it by next Friday at the latest.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publishers of:
Amateur Television Quarterly
ATVQ@...
http://www.hampubs.com

-----Original Message-----
From: paul.verhage@...
[mailto:paul.verhage@...]
Sent: Sunday, April 06, 2003 3:17 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: GPSL 2003

> Well, as I mentioned to Paul, the agenda is forming as folks step
> forward with material they'd like to present. So far, we have
> Paul's bit on his Traveler flights,

Explorer flights.

Paul

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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372. Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 02:10:51 UTC
From: Mike Manes
Topic: 345 Message: 372

Thanks, Russ. Sounds like an interesting conference session is
forming up. How much time do you think you'll need?

BTW, you might consider getting on the GPSL reflector - it's another
yahoogroups service.

73 de Mike W5VSI

Russ Chadwick wrote:
>
> Mike,
>
> I'll be happy to present the FAA Balloon Report web page at GPSL.
>
> Russ KB0TVJ
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Thursday, April 03, 2003 4:20 PM
> To: Michael Gray
> Cc: GPSL Reflector; Russ Chadwick KB0TVJ
> Subject: Re: GPSL 2003
>
> Hi Mike,
>
> Well, as I mentioned to Paul, the agenda is forming as folks step
> forward with material they'd like to present. So far, we have
> Paul's bit on his Traveler flights, and I'm hoping that Russ KB0TVJ
> will talk about the new FAA reporting feature on findu.com. I could
> do a show & tell on some of our new payloads, e.g. the despun ATV.
> EOSS could also cover some of the more interesting flights we'll have
> flown since the last GPSL, e.g GAINS and Big Blue.
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> I'd think that the group would be eager to learn more about your
> glider and how you've been dealing with FAA Seattle's concerns
> related to the "Predator" ROA requirements.
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> Incidentally, I'm not real certain who's on this reflector right now,
> and how many others balloon groups plan to attend the conference and/or
> the flight. Ralph Wallio does plan on a cameo appearance, however;
> perhaps he can be persuaded to delight us further!
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> Mike Manes W5VSI
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> Michael Gray wrote:
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373. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 04:01:09 UTC
From: Mike Manes
Topic: 345 Message: 373

Hi Mike,

You might want to consider the background of the audience in putting
your presentations together. SO far, I don't have a complete roster
of attendees (at least I >hope< I don't!) - but it'll be EOSS types,
Paul V. of TVNSP, Ralph W. and the ANSR team. Not sure how I can
solicit for more balloon group attendees, but some have already bailed.

Good luck with that FAA issue. I'll be in a teleconference tomorrow
with FAA and U Ky to nail down the details. In the meantime, you may
want to dredge thru the FAA sites looking for FAA Order 7610.4, which
is the parent document to notice I mentioned earlier.

Either that, or engage in weight reduction program! To that end, I've
coined a new acronym as a cousin to KISS: KILL, for Keep It Light,
Lunkhead! (You heard it here first -- :=}

73 de Mike W5VSI

Michael Gray wrote:
>
> Mike,
>
> I'll step forward and offer the following presentations, but feel free to
> alter them to suit the schedule and group.
>
> Introduction
> I have a 15 minute edited DVD that shows all aspects of high altitude
> ballooning. We use it as a general introduction to ballooning. It might
> make a good opening to the proceedings for those who may not be familiar
> with our hobby.
>
> Session 1 - Topics in Electronics and Software (45-60 minutes)
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> At 06:03 PM 04/04/2003 -0700, you wrote:
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> >BTW, I expect ANSR to be operating one of the three CU Workshop flight
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> >GPSL-unsubscribe@yahoogroups.com
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> >Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
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374. Re: MABEL III launch scheduled

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 04:12:36 UTC
From: Mike Manes
Topic: 374 Message: 374

Hi Phil,

I take it then that the MABEL team doesn't plan on participating in
the GPSL here in Denver on 13-15 June? Where is MABEL III launching
from?

73 de Mike W5VSI
EOSS

Phil Manor wrote:
>
> Update April 5, 2003
>
> I am sending this message to inform all on the old MABEL II list that MABEL
> III is set to launch on the
> 2nd or 3rd weekend of June 2003. That is the 7-8 or 14-15th. Please visit
> the USECA web page. USECA is
> sponcering the flight and has all updates on the projects section of their
> web page.
> 73 Phil W8IC

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

375. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 04:36:17 UTC
From: Mike Manes
Topic: 345 Message: 375

Sorry Paul. I did go back thru the 3800+ msgs in the Inbox to
find ur topic, but gave up. Explorer it is! Thanks.

We have some EOSS folks lining up lodging venues, and CU has offered
their rate walking distance from the campus GPSL venue for $69/nite
for single or double. There's cheaper farther out I'm sure, but this
ain't bad for Boulder.

So far, we have TVNSP, ANSR, EOSS and Raplh Wallio aboard and
presenting.
Any suggestions re how to promote GPSL 2003 more widely? I know you
did a great job on this for GPSL 2002. I'm not on all the balloon
reflectors, but on enough to make a nuisance of myself with duplicates.

73 de Mike
W5VSI

paul.verhage@... wrote:
>
> > Well, as I mentioned to Paul, the agenda is forming as folks step
> > forward with material they'd like to present. So far, we have
> > Paul's bit on his Traveler flights,
>
> Explorer flights.
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

376. GPSL 2003 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 12:25:59 UTC
From: Ralph Wallio, W0RPK
Topic: 376 Message: 376

>
> [KD4STH de W5VSI -rw]
> Any suggestions re how to promote GPSL 2003 more widely? I know you
> did a great job on this for GPSL 2002. I'm not on all the balloon
> reflectors, but on enough to make a nuisance of myself with duplicates.
>

Two thoughts immediately come to mind:

First, I have a long list of e-mail addresses including lists at http://users.crosspaths.net/~wallio/HABLinks.html. A short announcement could be sent to numerous selected addresses with basic information and a link to http://www.eoss.org/gpsl2003/ for further and updated information.

I subscribe to all known lists but I have not seen any GPSL2003 discussion on most. It is my understanding that GPSL2003 will be held in conjunction with the 2nd CU Space Grant Consortium Workshop. I do not find any information on the workshop in Colorado Space Grant web pages let alone reference to GPSL2003.

If EOSS will write the short announcement I will volunteer to send it. Multiple receptions of a short message is not a problem.

Second, we should send the announcement directly to all GPSL2002 attendees because they are prime candidates to attend GPSL2003. It should also be sent to ARRL, QRZ, and other points of dissemination.

While I think of it:

Mark Conner, N9XTN, is expecting a harmonic close to our GPSL2003 date and will not be with us. However, he is planning on flying an NSTAR mission close to home at the same time as our multiple launch from Deer Trail. This would be a significant opportunity for EBBE and should be publicized.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Hubbert's Peak: The Mother of all Perfect Storms

377. RE: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 14:08:39 UTC
From: paul.verhage@boiseschools.org
Topic: 345 Message: 377

I'm not running this year's GPSL, it's EOSS's turn. I'll pass the word on to Mike Manes.

We are hosting a Northwest Super Launch (NWSL) for Memorial Day weekeend, here in southwestern Idaho. If anyone is interested in attending, please ask them to email me. The details are still be worked out.

Thanks,
Paul

> Paul,
>
> I am putting together the Spring issue of ATVQ. Do you want to give me more
> details of GPSL 2003 to publish. Otherwise, I will publish what little I
> have. I need it by next Friday at the latest.
>
> Gene Harlan - WB9MMM
> Name Tags by Gene
> Harlan Technologies - publishers of:
> Amateur Television Quarterly
> ATVQ@...
> http://www.hampubs.com
>
> -----Original Message-----
> From: paul.verhage@...
> [mailto:paul.verhage@...]
> Sent: Sunday, April 06, 2003 3:17 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: GPSL 2003
>
>
> > Well, as I mentioned to Paul, the agenda is forming as folks step
> > forward with material they'd like to present. So far, we have
> > Paul's bit on his Traveler flights,
>
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>
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>
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>

378. RE: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 14:16:37 UTC
From: paul.verhage@boiseschools.org
Topic: 345 Message: 378

Here's mike email address. I just emailed him asking him to email you info.

Paul

manes@...

379. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-07 14:28:30 UTC
From: paul.verhage@boiseschools.org
Topic: 345 Message: 379

> We have some EOSS folks lining up lodging venues, and CU has offered
> their rate walking distance from the campus GPSL venue for $69/nite
> for single or double. There's cheaper farther out I'm sure, but this
> ain't bad for Boulder.

There's a KOA about an hour east that I'll camp at.

> Any suggestions re how to promote GPSL 2003 more widely? I know you
> did a great job on this for GPSL 2002. I'm not on all the balloon
> reflectors, but on enough to make a nuisance of myself with duplicates.

Gene Harlan is very interested to know about GPSL and will
publish info on it. He'll need info by Friday. Can we get something
in QST? Isn't there a ARRL audio message that goes out once a
week? I'll see if anyone here can tell me about it. Perhaps we can
put a message out there and on the ARRL webpage. AMSAT also
has a page reserved for ballooning.

We had problems last year getting the word out and any
advertisement. I tried contacting Gordon Wset of Nuts and Volts
magazine. He expressed some interest, but never showed up or
wrote anything. It might be a good idea to try him again.

I'll keep thinking about this.

Paul

380. Student Satellite Program

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-08 15:11:54 UTC
From: paul.verhage@boiseschools.org
Topic: 380 Message: 380

Is GPSL 2003 being held in conjunction with the Space Grant's
Student Satellite Program?

Thanks,
Paul

381. Re: [GPSL] My plans for GPSL2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-08 22:13:27 UTC
From: Mike Manes
Topic: 369 Message: 381

Hi GPSLres,

Thanks to Ralph for offering his vast library of valuable ballooning info. Do any of you have any special preferences? If so, let the group and Ralph know -- I think we can give him 2 hours, based on the present attendance on record.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Schedule for my 'cameo appearance' at GPSL2003. We, wife Sharon, daughter
> Steph and self, will arrive in Boulder Thursday afternoon, June 12th, from
> Salt Lake City via the University of Wyoming at Laramie. We will leave the
> area Saturday morning via the launch site at Deer Trail to arrive in
> Lawrence, Kansas late that afternoon.
>
> I/we will be available for an informal gathering and meal in Boulder on
> Thursday evening, paper presentations and discussion on Friday at
> CU-Boulder, a more formal meal on Friday evening in Boulder and the launch
> from Deer Trail on Saturday morning. I will not be flying a mission or
> payload.
>
> On Friday I could present paper(s) on --
>
> Solar Floater (see http://users.crosspaths.net/wallio/SolarFloater.html)
> which I still hope to fly for the first time in May
>
> Radio Mobile Deluxe payload communications footprint predictions (see
> http://users.crosspaths.net/wallio/Radio%20Mobile.html)
>
> Link Budget Analysis (see http://users.crosspaths.net/~wallio/LINKbudg.html)
>
> Predictions from Mean Zonal Winds (see
> http://users.crosspaths.net/~wallio/MZW.html)
>
> Packet Radio Bit Error Rate (see
> http://users.crosspaths.net/~wallio/ber.html)
>
> and/or lead a discussion about our collective Amateur Radio High Altitude
> Ballooning Records (see http://users.crosspaths.net/wallio/RECORDS.html)
>
> You folks vote on which, if any, you want to be amused, bored and/or
> entertained about.
>
> On Saturday morning I could be our official kibitzer to the public,

> students, et al., that may need an explanation or two during preparations
> and launch (after which we will be heading east on I70).
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://members.crosspaths.net/wallio
> Hubbert's Peak: The Mother of all Perfect Storms
>
>
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

382. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-08 23:20:31 UTC
From: Mike Manes
Topic: 345 Message: 382

Hi Gene,

Hey! Thanks for the generous offer! I assume that this will be
published
in the "coming events" section?

Here's what I know - may be no more than what you already have:

Great Plains Super Launch 2003 - the 3rd annual convocation of ham
radio high altitude balloon groups. This year's GPSL is sponsored
by Edge of Space Sciences <www.eoss.org> and will be held in
conjunction with the University of Colorado Space Grant College
BalloonSat Workshop.

The GPSL Conference will be held on the campus of U. Colo from 10AM
to 5PM on Friday, June 14, 2003. The conference program is just
now coming together, but will include presentations on the TVNSP
Explorer balloon payloads, the latest developments at ANSR and
the newly-developed FAA position reporting feature based on I-gated
APRS beacons. The specific conference room is TBD but will be posted
on www.eoss.org in a few weeks. A dinner will be held afterwards at
a nearby eatery.

Early Saturday AM, June 15, the GPSL crews will head east on I-70 to
the town of Deer Trail CO, where they will prepare to launch at
least three balloons carrying small experimental packages, or
"BalloonSats", designed and built by the 50-odd CU Workshop attendees
from NASA Space Grant Colleges from all over the US. Balloon teams
from EOSS, TVNSP and ANSR will conduct the launch, tracking and
recovery operations, using their own APRS and DF tracking beacons.

If the Saturday winds or weather are unsuitable, the launches will be
postponed to Sunday 16 June.

All interested amateurs are warmly invited to attend this exciting
event. Check www.eoss.org for the latest GPSL information.

73 de Mike W5VSI

Gene Harlan wrote:
>
> Paul,
>
> I am putting together the Spring issue of ATVQ. Do you want to give me more
> details of GPSL 2003 to publish. Otherwise, I will publish what little I
> have. I need it by next Friday at the latest.
>

> Gene Harlan - WB9MMM
> Name Tags by Gene
> Harlan Technologies - publishers of:
> Amateur Television Quarterly
> ATVQ@...
> http://www.hampubs.com
>
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> From: paul.verhage@...
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

383. Re: MABEL III launch scheduled

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-10 22:34:49 UTC
From: Mike Manes
Topic: 374 Message: 383

Hi Phil,

Forgot that you're out of Michigan - pretty long trip out this way.
Good luck on MABEL 3! Maybe get an eyeball after you retire?

73 de Mike W5VSI

Phil Manor wrote:
>
> Hi Mike. It would be neat to make it out to Denver but that is not feasible
> for Ann and I yet. I have already talked about EOSS flights once we retire.
> I am the only one launching in Michigan that I know of and this time frame
> is necessary to get maximum participation from the local
> hams. 73 Phil W8IC

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

384. Re: [GPSL] GPSL 2003 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-10 22:49:17 UTC
From: Mike Manes
Topic: 376 Message: 384

Hi Ralph,

Hey! THanks for the offer to get the word out! If I'd know that
EOSS was gonna get requests for some 14 launches this year, I'd
not have been so free to volunteer to host GPSL. So any help
will be most sincerely appreciated! Some day, maybe I'll find
out what retirement's >supposed< to be like!

You may have seen the blurb I sent Gene Harlan for ATVQ. If not, here
it is again. ANd Rick N0KKZ sez that the "official" web site is
www.gpsl.eoss.org or www.eoss.org\gpsl.

Not sure when Chris K is gonna get his site updated - will ask
him next weekend during EOSS-65.

73 es tnx de Mike W5VSI
------ clip -----
Here's what I know - may be no more than what you already have:

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radio high altitude balloon groups. This year's GPSL is sponsored
by Edge of Space Sciences <www.eoss.org> and will be held in
conjunction with the University of Colorado Space Grant College
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Balloon teams from EOSS, TVNSP and ANSR will conduct the launch,
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event. Check www.eoss.org for the latest GPSL information.
------ clip -----

"Ralph Wallio, W0RPK" wrote:
>
> >
> > [KD4STH de W5VSI -rw]
> > Any suggestions re how to promote GPSL 2003 more widely? I know you
> > did a great job on this for GPSL 2002. I'm not on all the balloon
> > reflectors, but on enough to make a nuisance of myself with duplicates.
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>
> Two thoughts immediately come to mind:
>
> First, I have a long list of e-mail addresses including lists at
> http://users.crosspaths.net/~wallio/HABLinks.html. A short announcement
> could be sent to numerous selected addresses with basic information and a
> link to http://www.eoss.org/gpsl2003/ for further and updated information.
>
> I subscribe to all known lists but I have not seen any GPSL2003 discussion
> on most. It is my understanding that GPSL2003 will be held in conjunction
> with the 2nd CU Space Grant Consortium Workshop. I do not find any
> information on the workshop in Colorado Space Grant web pages let alone
> reference to GPSL2003.
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> If EOSS will write the short announcement I will volunteer to send it.
> Multiple receptions of a short message is not a problem.
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> Second, we should send the announcement directly to all GPSL2002 attendees
> because they are prime candidates to attend GPSL2003. It should also be
> sent to ARRL, QRZ, and other points of dissemination.
>
> While I think of it:
>
> Mark Conner, N9XTN, is expecting a harmonic close to our GPSL2003 date and
> will not be with us. However, he is planning on flying an NSTAR mission
> close to home at the same time as our multiple launch from Deer Trail. This
> would be a significant opportunity for EBBE and should be publicized.
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

385. Re: [GPSL] Student Satellite Program

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-10 23:00:40 UTC
From: Mike Manes
Topic: 380 Message: 385

Hi Paul,

Yes, in a sense. Chris Koehler has developed a one-semester undergrad course at CU called "Gateway to Space", where the kids get their feet wet in aerospace engineering. Teams of 5 or so students design and built "balloonsats" which EOSS flies and recovers. The balloonsat log flight data in Hobos, so recovery is essential.

Last year, Chris and CU SGC did a seminar for all the US Space Grant Colleges on how to develop this kind of course at their schools. The attendees build balloonsats from kits, some 20 or so, and EOSS along with Ia State and Mt State flew 'em on three flight strings.

GPSL 2003 is that same seminar, and once again EOSS will fly one of the three strings of balloonsats. This year, Ia State won't attend, so we're relying on ANSR, MT State and TVNSP to split the ballonsats, fly 'em and get 'em back.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Is GPSL 2003 being held in conjunction with the Space Grant's
> Student Satellite Program?
>
> Thanks,
> Paul
>
>
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Mike Manes manes@... Tel: 303-979-4899
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386. [Fwd: [EOSS_Private]]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-10 23:59:14 UTC
From: Mike Manes
Topic: 386 Message: 386

-------- Original Message --------
Subject: [EOSS_Private]
Date: Wed, 9 Apr 2003 00:14:20 -0600
From: "Rick von Glahn" <rickvg@...>

As discussed at tonight's meeting, I've created a sub domain for the
GPSL web pages. You can get to them at:

http://gpsl.eoss.org

Although I don't know why you'd want to do it, you can also enter:

http://www.eoss.org/gpsl/

73 -- Rick, N0KKZ

To unsubscribe from this group, send an email to:
EOSS_Private-unsubscribe@yahoogroups.com

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387. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-11 02:54:46 UTC
From: Mike Manes
Topic: 345 Message: 387

Hi Paul,

Not sure who's on this GPSL reflector, but I've posted a couple of
general inquiries, and Ralph, TVNSP, ANSR and EOSS are the only ones
who have confirmed their intent to join us.

So .... who did I miss?

Re QST et al: I did get Gene something for ATVQ, and Ralph has genrously
offered to post the word to his rather thorough list of reflectors.
Not sure how to get something in QST, but Jeff Ryan K0RM, the Colo
ARLL SM and a valued supporter of EOSS's activities in Colo Springs,
may have some ideas.

OK on the KOA. You make me feel like a real homebody - but my ol'
bod's just not up to a good snooze in anthing but a comfy bed :=|.

Thanks!
de Mike W5VSI

paul.verhage@... wrote:
>
> > We have some EOSS folks lining up lodging venues, and CU has offered
> > their rate walking distance from the campus GPSL venue for $69/nite
> > for single or double. There's cheaper farther out I'm sure, but this
> > ain't bad for Boulder.
>
> There's a KOA about an hour east that I'll camp at.
>
> > Any suggestions re how to promote GPSL 2003 more widely? I know you
> > did a great job on this for GPSL 2002. I'm not on all the balloon
> > reflectors, but on enough to make a nuisance of myself with duplicates.
>
> Gene Harlan is very interested to know about GPSL and will
> publish info on it. He'll need info by Friday. Can we get something
> in QST? Isn't there a ARRL audio message that goes out once a
> week? I'll see if anyone here can tell me about it. Perhaps we can
> put a message out there and on the ARRL webpage. AMSAT also
> has a page reserved for ballooning.
>
> We had problems last year getting the word out and any
> advertisement. I tried contacting Gordon Wset of Nuts and Volts
> magazine. He expressed some interest, but never showed up or
> wrote anything. It might be a good idea to try him again.
>
> I'll keep thinking about this.

>
> Paul
>
>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

388. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-11 14:30:09 UTC
From: paul.verhage@boiseschools.org
Topic: 345 Message: 388

The only one I can think of is HABITAT. NSTAR will be occupied
with fatherly duties and NSBG is not active. Have you heard from
Bill Brown? There was also that group from Texas that came up
last year.

Paul

> Hi Paul,
>
> Not sure who's on this GPSL reflector, but I've posted a couple of
> general inquiries, and Ralph, TVNSP, ANSR and EOSS are the only ones
> who have confirmed their intent to join us.
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>
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> bod's just not up to a good snooze in anthing but a comfy bed :=|.
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389. Speakers Tell me ...

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-11 20:59:30 UTC
From: Rick von Glahn
Topic: 374 Message: 389

I've been trying to get some information posted on the GPSL 2003 website.

http://gpsl.eoss.org

If you are a speaker please visit:

http://www.eoss.org/gpsl/speakers.htm

And tell me if I've made any mistakes or left anything out.

And also check:

http://www.eoss.org/gpsl/forums.htm

And tell me if I've correctly outlined your presentation.

If you go there now, you'll find nothing! So, if you are a speaker, perhaps you could send along a paragraph or two outlining your proposed presentation.

Please feel encouraged to check out the rest of the site and offer any suggestions, corrections etc. so that this site can become accurate and informative for visitors planning to attend the event.

Thanks.

73 -- Rick, N0KKZ

390. GPSL2003 - Boulder - June 13-15

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-12 11:40:15 UTC
From: Ralph Wallio, W0RPK
Topic: 390 Message: 390

Announcing Great Plains Super Launch 2003 - the 3rd annual gathering of Amateur Radio high altitude balloonists. This year's GPSL is hosted by Edge of Space Sciences www.eoss.org and will be held in conjunction with the 2nd Colorado Space Grant Consortium BalloonSat Workshop http://spacegrant.colorado.edu/studentsat/.

GPSL2003 will be held on the Boulder campus of the University of Colorado from 10AM to 5PM on Friday, June 13th. Numerous presentations and discussions will be lead by experienced Amateur Radio high altitude balloonists. (Contact EOSS President Mike Manes, W5VSI manes@... with additional topics.) A dinner will be held afterwards at a nearby eatery. More details and updates will be available at http://gpsl.eoss.org/ including a special accommodation rate at Ramada Inn Boulder.

Early Saturday morning, June 14th, GPSL crews will head east on I-70 to the town of Deer Trail, Colorado where they will prepare to launch at least three balloons carrying small BalloonSat experiment packages built by workshop attendees from NASA Space Grant Colleges and Universities all over the U.S. GPSL balloon teams will then conduct tracking and recovery operations using APRS and DF tracking beacons. (If weather on Saturday is unsuitable, launch, tracking and recovery will be postponed to Sunday morning, June 15th.)

All interested Amateur Radio and high altitude ballooning enthusiasts are warmly invited to attend this exciting event. Check http://gpsl.eoss.org/ for the latest GPSL2003 information.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://members.crosspaths.net/wallio
Hubbert's Peak: The Mother of all Perfect Storms

391. Oklahoma Research Balloons - ORB4 Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-12 13:23:23 UTC
From: Harry M
Topic: 391 Message: 391

Oklahoma Research Balloons - ORB4

Saturday April 11
Launch site - Collinsville, Ok High School (N36 21.9907/W95 51.5243)
Time - 9-10 am
Balloon - 28" Latex Party
Micro-Beacon freq - 144.080
Repeater - 146.700 Owasso
Alt. Repeater - 147.090 Claremore
Winds - Light and variable to 50k

Harry
KC5TRB

The truest forms of experimentation
and invention have no purpose
-- it's pure curiosity and challenge.
---

392. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-13 02:37:28 UTC
From: Mike Manes
Topic: 345 Message: 392

Hi Paul,

I think I heard from Harry Mueller of ORB that he has other plans,
but don't have contact info for the N. Tx crew. Do you? And no
word from Bill Brown, but he may pop up in response to Ralph's
excellent and wide-spread email announcement. Thanks, Ralph!

FOr Ralph: since no one's yet expressed a preference from your
copious menu of presentations, then why don't you pick the one
you most enjoy presenting? After all, we do this for recreation,
don't we?

73 de Mike W5VSI

paul.verhage@... wrote:
>
> The only one I can think of is HABITAT. NSTAR will be occupied
> with fatherly duties and NSBG is not active. Have you heard from
> Bill Brown? There was also that group from Texas that came up
> last year.
>
> Paul
>
> > Hi Paul,
> >
> > Not sure who's on this GPSL reflector, but I've posted a couple of
> > general inquiries, and Ralph, TVNSP, ANSR and EOSS are the only ones
> > who have confirmed their intent to join us.
> >
> > So .... who did I miss?
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> > Re QST et al: I did get Gene something for ATVQ, and Ralph has genrously
> > offered to post the word to his rather thorough list of reflectors.
> > Not sure how to get something in QST, but Jeff Ryan K0RM, the Colo
> > ARLL SM and a valued supporter of EOSS's activities in Colo Springs,
> > may have some ideas.
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> > OK on the KOA. You make me feel like a real homebody - but my ol'
> > bod's just not up to a good snooze in anthing but a comfy bed :=|.
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> > >
> > > > We have some EOSS folks lining up lodging venues, and CU has offered

> > > > their rate walking distance from the campus GPSL venue for $69/nite
> > > > for single or double. There's cheaper farther out I'm sure, but this
> > > > ain't bad for Boulder.
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> > > There's a KOA about an hour east that I'll camp at.
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> > > > Any suggestions re how to promote GPSL 2003 more widely? I know you
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393. RE: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-13 05:39:40 UTC
From: Doug Eubanks
Topic: 345 Message: 393

Mike,

The group from N. Texas was Jerome and Bobette Doerrie, K5IS
and N5IS.
They are from Booker, which is a hop skip and jump from the
OK border in the NE corner of the TX panhandle.
Bet they would be real interested in attending.
Looks like Jerome's e-mail address is k5is@...

Doug, KAOO
ka0o@...

-----Original Message-----
From: Mike Manes [mailto:manes@...]
Sent: Saturday, April 12, 2003 9:37 PM
To: GPSL@yahoogroups.com
Cc: Harry Mueller KC5TRB; Bill Brown WB8ELK; Ralph Wallio,
W0RPK
Subject: Re: [GPSL] Re: GPSL 2003

Hi Paul,

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other plans,
but don't have contact info for the N. Tx crew. Do you?
And no
word from Bill Brown, but he may pop up in response to
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> > Not sure how to get something in QST, but Jeff Ryan
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394. Re: [GPSL] Hello from WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-13 08:25:22 UTC
From: wb8elk@aol.com
Topic: 394 Message: 394

Hi Mike and all,

I am planning on attending the symposium and launch....I can give a 30 minute talk on various topics....early days of ballooning, night flights searching for meteor dust, rockooning, etc.

73s de Bill WB8ELK

395. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-13 15:34:34 UTC
From: Harry M
Topic: 345 Message: 395

Just confirming that I will not be able to be at GPSL.
Wish I could change plans. I had a great time last year!

Harry
KC5TRB

Amateur Radio, not just a hobby
-- it's an adventure

> I think I heard from Harry Mueller of ORB that he has other plans,

396. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-14 14:18:10 UTC
From: paul.verhage@boiseschools.org
Topic: 345 Message: 396

> I think I heard from Harry Mueller of ORB that he has other plans,
> but don't have contact info for the N. Tx crew. Do you? And no
> word from Bill Brown, but he may pop up in response to Ralph's
> excellent and wide-spread email announcement. Thanks, Ralph!

I'll look around and see what I have.
Paul

397. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-14 15:59:32 UTC
From: Ralph Wallio, W0RPK
Topic: 345 Message: 397

I have sent the announcement to all GPSL2002 attendees including the folks from N. Texas. Bill Brown has responded and will be with us. -w0rpk

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, April 14, 2003 9:18 AM
Subject: Re: [GPSL] Re: GPSL 2003

> > I think I heard from Harry Mueller of ORB that he has other plans,
> > but don't have contact info for the N. Tx crew. Do you? And no
> > word from Bill Brown, but he may pop up in response to Ralph's
> > excellent and wide-spread email announcement. Thanks, Ralph!

398. Re: [GPSL] Hello from WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-17 01:02:40 UTC
From: Mike Manes
Topic: 394 Message: 398

Hi Bill,

Well, that's excellent news! What would a GPSL be without the grandaddy of ham radio ballooning? (in the US, anyway :=}. Re a presentation topic, why don't you pick something that you really enjoy presenting, and we'll put you on the agenda for whatever time you'd like.

73 de Mike W5VSI

wb8elk@... wrote:
>
> Hi Mike and all,
>
> I am planning on attending the symposium and launch....I can give a 30
> minute talk on various topics....early days of ballooning, night flights
> searching for meteor dust, rockooning, etc.
>
> 73s de Bill WB8ELK
>
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Mike Manes manes@... Tel: 303-979-4899
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399. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-16 18:06:32 UTC
From: Mike Manes
Topic: 345 Message: 399

Thanks, Doug. And will you be attending this year?

I've added Jerome to this reply. So ..... Jerome and Bobette, can we
expect to see you guys again this year? We may need more of your
able assistance if we land across a power line again.

73 de Mike W5VSI
EOSS, sponsor for GPSL '03 in Boulder CO 13-15 Jun.

> Doug Eubanks wrote:
>
> Mike,
>
> The group from N. Texas was Jerome and Bobette Doerrie, K5IS and N5IS.
> They are from Booker, which is a hop skip and jump from the OK border
> in the NE corner of the TX panhandle.
> Bet they would be real interested in attending.
> Looks like Jerome's e-mail address is k5is@...
>
>
> Doug, KAØO
> ka0o@...
>
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Saturday, April 12, 2003 9:37 PM
> To: GPSL@yahoogroups.com
> Cc: Harry Mueller KC5TRB; Bill Brown WB8ELK; Ralph Wallio,
> W0RPK
> Subject: Re: [GPSL] Re: GPSL 2003
>
> Hi Paul,
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400. RE: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-17 08:32:26 UTC
From: Doug Eubanks
Topic: 345 Message: 400

I would like to, but at this stage of the game, it looks
like I will be staying home and helping Mark with the NSTAR
launch here.

Doug
-----Original Message-----
From: Mike Manes [mailto:manes@...]
Sent: Wednesday, April 16, 2003 1:07 PM
To: GPSL@yahoogroups.com; k5is@...
Cc: Harry Mueller KC5TRB; Bill Brown WB8ELK; Ralph Wallio,
W0RPK
Subject: Re: [GPSL] Re: GPSL 2003

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I've added Jerome to this reply. So ..... Jerome and
Bobette, can we
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> Sent: Saturday, April 12, 2003 9:37 PM
> To: GPSL@yahoogroups.com
> Cc: Harry Mueller KC5TRB; Bill Brown WB8ELK; Ralph

Wallio,
> W0RPK
> Subject: Re: [GPSL] Re: GPSL 2003
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> AMSAT also
> > > > has a page reserved for ballooning.
> > > >
> > > > We had problems last year getting the word
out and any
> > > > advertisement. I tried contacting Gordon
Wset of Nuts
> and Volts
> > > > magazine. He expressed some interest, but
never
> showed up or
> > > > wrote anything. It might be a good idea to
try him
> again.
> > > >
> > > > I'll keep thinking about this.
> > > >
> > > > Paul
> > > >
> > > >
> > > > To unsubscribe from this group, send an email
to:
> > > > GPSL-unsubscribe@yahoogroups.com
> > > >
> > > >
> > > >
> > > > Your use of Yahoo! Groups is subject to

> http://docs.yahoo.com/info/terms/
> > >
> > > --
> > > Mike Manes manes@... Tel:
303-979-4899
> > > "Things should be made as simple as possible,
but not
> more so." A.
> > > Einstein
> > >
> > >
> > >
> > >
> > > To unsubscribe from this group, send an email
to:
> > > GPSL-unsubscribe@yahoogroups.com
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more
so." A.
Einstein

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of Service.

401. Re: [GPSL] Re: GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-17 21:46:24 UTC
From: Mike Manes
Topic: 345 Message: 401

Thanks, Ralph. Your valuable assistance has already paid dividends!

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> I have sent the announcement to all GPSL2002 attendees including the folks
> from N. Texas. Bill Brown has responded and will be with us. -w0rpk

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

402. GPSL 2003?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-18 04:19:58 UTC
From: Michael L. Bogard
Topic: 402 Message: 402

Just thought I would let the group know that the BYBG/KD0FW group will not be able to attend the 2003 GPSL this year in Colorado. There might be a chance to have a 2003 GPSL EAST launch in Omaha, or the Kansas City area. We will just have to play that one by ear for now.

403. GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-19 22:33:47 UTC
From: paul.verhage@boiseschools.org
Topic: 403 Message: 403

Is there an interest in launching balloons in the Kansas/Nebraska area after GPSL? I'll be visiting my parents during the 4th of July holidays. Perhaps a second GPSL can be arranged for this time.

Paul

404. Re: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-19 23:55:27 UTC
From: Zack Clobes
Topic: 403 Message: 404

I'm not really sure what PT has in the way of launches for this year, but if you're in the neighborhood, we'd probably at least be up for supper some evening.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, April 19, 2003 5:33 PM
Subject: [GPSL] GPSL East?

> Is there an interest in launching balloons in the Kansas/Nebraska
> area after GPSL? I'll be visiting my parents during the 4th of July
> holidays. Perhaps a second GPSL can be arranged for this time.
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

405. Re: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-23 23:24:29 UTC
From: Mark Conner
Topic: 403 Message: 405

If you'd like to come to Omaha for a day or two, we can fly from here on Friday, Saturday, or Sunday. I'm not sure if I can head to Kansas at that time or not - that will be less than three weeks before the baby is due. Both of my launch sites are completely outdoors, so we wouldn't be as protected from the wind.

We can arrange helium transport for whoever shows up. $70 per T-tank (plus a rental charge if they have one).

- Mark

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, April 19, 2003 17:33
Subject: [GPSL] GPSL East?

> Is there an interest in launching balloons in the Kansas/Nebraska
> area after GPSL? I'll be visiting my parents during the 4th of July
> holidays. Perhaps a second GPSL can be arranged for this time.
>
> Paul

406. Re: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-25 14:07:39 UTC
From: paul.verhage@boiseschools.org
Topic: 403 Message: 406

> If you'd like to come to Omaha for a day or two, we can fly from
> here on Friday, Saturday, or Sunday. I'm not sure if I can head
> to Kansas at that time or not - that will be less than three
> weeks before the baby is due. Both of my launch sites are
> completely outdoors, so we wouldn't be as protected from the
> wind.

Can anyone else from Kansas make a trip to Nebraska?

Paul

407. National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-25 21:54:56 UTC
From: paul.verhage@boiseschools.org
Topic: 403 Message: 407

Can someone get me a scanned image of the January 1963 issue
of National Geographics? The Boise main library has their issue
bound and the cover removed.

Thanks,
Paul

408. Re: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-26 03:47:29 UTC
From: wb8elk@aol.com
Topic: 403 Message: 408

Hi Paul,

I have Geographics going back to the 40s at my parent's place in Ohio...I'll look for it while I'm back there during the Dayton Hamvention.

73s de Bill WB8ELK

409. Re: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-28 14:08:07 UTC
From: paul.verhage@boiseschools.org
Topic: 403 Message: 409

Thanks. The cover is suppose to be a painting by Tom Lovell, of
the escape from Explorer I. I want to use it in my GPSL
presentation.

I hate to say this, but I don't know when the hamvention is.

Paul

> Hi Paul,
>
> I have Geographics going back to the 40s at my parent's place in
> Ohio...I'll look for it while I'm back there during the Dayton Hamvention.
>
> 73s de Bill WB8ELK
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

410. Re: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-28 14:19:24 UTC
From: paul.verhage@boiseschools.org
Topic: 403 Message: 410

> If you'd like to come to Omaha for a day or two, we can fly from
> here on Friday, Saturday, or Sunday. I'm not sure if I can head
> to Kansas at that time or not - that will be less than three
> weeks before the baby is due. Both of my launch sites are
> completely outdoors, so we wouldn't be as protected from the
> wind.
>
> We can arrange helium transport for whoever shows up. $70 per
> T-tank (plus a rental charge if they have one).

Zack, can you make it up to Nebraska just after the 4th of July?
How about during a weekday?

I suppose I could stop in Nebraska on my way to Kansas for a
flight (and not just after visiting Kansas). Mark, what I would like to
do is bring a capsule to fly and just tether it to yours. I'll split the
cost of helium and the balloon. Perhaps we ought to try for an
altitude record.

Paul

411. Re: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-28 17:06:22 UTC
From: wb8elk@aol.com
Topic: 403 Message: 411

Hi Paul,

The Hamvention is May17th weekend.

73s de Bill WB8ELK

412. Re: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-28 23:51:00 UTC
From: Zack Clobes
Topic: 403 Message: 412

I'm not sure what my schedule is going to be for this summer. My wife is a teacher and doesn't yet know if she's going to get a contract to teach next fall. She may be starting a new job this summer and that would pretty well limit much of our summer travels.

It may be more of a possibility to meet somewhere in eastern Kansas - I have an uncle in the KC area that we could stay with if we were to launch from that area.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, April 28, 2003 9:19 AM
Subject: Re: [GPSL] GPSL East?

> > If you'd like to come to Omaha for a day or two, we can fly from
> > here on Friday, Saturday, or Sunday. I'm not sure if I can head
> > to Kansas at that time or not - that will be less than three
> > weeks before the baby is due. Both of my launch sites are
> > completely outdoors, so we wouldn't be as protected from the
> > wind.
> >
> > We can arrange helium transport for whoever shows up. $70 per
> > T-tank (plus a rental charge if they have one).
>
> Zack, can you make it up to Nebraska just after the 4th of July?
> How about during a weekday?
>
> I suppose I could stop in Nebraska on my way to Kansas for a
> flight (and not just after visiting Kansas). Mark, what I would like to
> do is bring a capsule to fly and just tether it to yours. I'll split the
> cost of helium and the balloon. Perhaps we ought to try for an
> altitude record.
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>

> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

413. RE: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-04-29 03:48:28 UTC
From: Rick von Glahn
Topic: 403 Message: 413
Attachments: 1 described; binary payloads are missing from this source WARC

I looked for this around the net but could only find this extremely low resolution thumbnail. Hope Bill will come through for you.

If it is actually worth it to you, you can always buy the complete national geo on CD (32 of 'em)

http://www.amazon.com/exec/obidos/tg/detail/-/B000077CE8/qid=1051587736/sr=1-1/ref=sr_1_1_etk-software/102-9443180-9202530?v=glance&s=software&n=229534

73 -- Rick, N0KKZ

> -----Original Message-----
> From: paul.verhage@...
> [mailto:paul.verhage@...]
> Sent: Monday, April 28, 2003 8:08 AM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] National Geographics, Jan 1963
>
>
> Thanks. The cover is suppose to be a painting by Tom Lovell, of
> the escape from Explorer I. I want to use it in my GPSL
> presentation.
>
> I hate to say this, but I don't know when the hamvention is.
>
> Paul
>
> > Hi Paul,
> >
> > I have Geographics going back to the 40s at my parent's place in
> > Ohio...I'll look for it while I'm back there during the
> Dayton Hamvention.
> >
> > 73s de Bill WB8ELK
> >
> >
> > To unsubscribe from this group, send an email to:
> > GPSL-unsubscribe@yahoogroups.com
> >
> >
> >
> > Your use of Yahoo! Groups is subject to
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> >

> >
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>
>
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>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to
> http://docs.yahoo.com/info/terms/
>
>
>

414. Re: FW: GPS Package TNC Settings

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-08 04:10:20 UTC
From: Mike Manes
Topic: 414 Message: 414

Hi Bill,

Are you going to make it to GPSL 2003 in Boulder this year?

73 de Mike W5VSI,EOSS

Bill and Karen Davis wrote:
>
> Thanks, this will be a big time saver.
>
> Bill
> kg5ie
>
> _____
> Do you Yahoo!?
> The New Yahoo! Search - Faster. Easier. Bingo.
> http://search.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

415. Fwd: Re: Fwd: Re: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-09 16:15:55 UTC
From: Don Pfister
Topic: 415 Message: 415

--- Don Pfister <ka0jlf@...> wrote:
> Date: Fri, 09 May 2003 11:11:13 -0500
> From: Don Pfister <ka0jlf@...>
> To: GPSL@yahoogroups.com
> CC: Don Pfister <donaldapfister@...>
> Subject: Re: Fwd: Re: [GPSL] GPSL East?
>
>
> Don Pfister wrote:
>
> > --- paul.verhage@... wrote:
> > >
> > > Can anyone else from Kansas make a trip to
> Nebraska?
>
> I don't have a clue what I'm going to be able to do,
> or when.
>
> I've been very busy this week with all the weather
> stuff. Been working
> communications for SATERN and ARES, as well as storm
> spotting nets.
>
> I'm need to find a job soon, and who knows what time
> that will leave me. ;-)
>
> 73
> Don
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
>

Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo.
http://search.yahoo.com

416. CU SGC Workshop / GPSL 2003 Flight 14 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-15 02:37:09 UTC
From: Mike Manes
Topic: 416 Message: 416

Hi Bill,

Chris Koehler may already have told you that EOSS will be the "prime contractor" for the Workshop balloon flight on Sat 14 June from Deer Trail. As with last year's Workshop, EOSS will arrange for launch site access and will handle all FAA prelaunch notices and enroute position reports. In addition, EOSS plans on delivering both the Helium and enough 1200 gm Kaymont or Kaysam latex balloons to the launch site for all the flights. So all you need to bring is your APRS tracking beacon, parachute, flight string, fill rig and mobile tracking & recovery rig. CU SGC has agreed to pay for the balloons and gas used to carry the Workshop balloonsats.

This year, EOSS is also sponsoring the Great Plains Super Launch, an annual event initiated 2 years ago by Paul Verhage, which is an annual convocation of several amateur balloon groups in the US. Last year, six groups launched their balloons simulataneously from an airport near Manhattan KS and effected recovery of all payloads. Quite a spectacle!

GPSL 2003 is being held in the Denver area and in conjuction with the CU SGC BalloonSat Workshop. GPSL attendees from Arizona Near Space Research (ANSR) and Treasure Valley (ID) Near Space Project (TVNSP) have agreed to join you and EOSS in providing launch, tracking and recovery support for the 4 (or 5) balloon payload strings to be launched that morning. All of these strings will carry no more than 12 lb of payload weight in order to stay FAR 101.1(a)(4) exempt. For this purpose, payload weight includes everything except the parachute, balloon and commandable cutdown devices.

Now in order to arrange for FAA forecasting/enroute reports and for payload string weight planning, I will need to know some details about your 'chute and tracking beacon(s), which is presumed be GPS driven and downlinks APRS-compatible 1200-baud UI packets on 2m or 70cm:

1. Parachute diameter or MSL terminal descent rate w/ 12# load.
2. Beacon weight in flight configuration. (this deducts from the allowable balloonsat load)
3. Beacon callsign and SSID (-11 preferred).
4. Which bands / freqs can you downlink on?
5. Can your beacon transmissions be time-slotted to a particular second after the top of each GPS minute? (Provides for freq sharing w/ other beacons).

For ANSR and TVNSP: <<I need the same info from you as well!>>

If all balloons are filled for the same excess gross lift, launch simultaneously and are similarly loaded, then it is reasonable that they will ascend above FL600 close enough together to allow all of them to be reported to the FAA as a single "formation" flight - a far simpler process than separate reports. It is probably optimistic to expect that all will burst and descend as a formation, but by that time, they should be well outside DIA's approach and departure corridors, so position reports need not be a frequent.

There will also be a GPSL conference held on Friday the 13th at CU, courtesy Chris Koehler. This does conflict with the Workshop sessions, but if some of your team wishes to meet the GPSL attendees, including Bill Brown and Ralph Wallio et al, they will be warmly welcomed!

You are strongly encouraged to join the GPSL yahoogroups email reflector to stay abreast of developing details which may affect your flight operations on the 14th. There is a direct link to joining GPSL@yahoogroups.com right on the EOSS web site:

www.eoss.org.

There's also a GPSL web page there that covers the whole conference.

I look forward to your earliest convenient response, and don't hesistate to pose any questions that may pop up.

73 de Mike Manes W5VSI
Pres EOSS
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

417. Re: [GPSL] CU SGC Workshop / GPSL 2003 Flight 14 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-15 15:05:04 UTC
From: paul.verhage@boiseschools.org
Topic: 416 Message: 417

> 1. Parachute diameter or MSL terminal descent rate w/ 12# load.
> 2. Beacon weight in flight configuration. (this deducts from the
> allowable balloonsat load)
> 3. Beacon callsign and SSID (-11 preferred).
> 4. Which bands / freqs can you downlink on?
> 5. Can your beacon transmissions be time-slotted to a particular second
> after the top of each GPS minute? (Provides for freq sharing w/
> other beacons).
>
> For ANSR and TVNSP: <<I need the same info from you as well!>>

I'm trying for two launches and I think they will be close to identical

Descent around 1200 f/m (assuming the cutdowns are attached
above the parachute this time, and not below them).

I think I can keep the weights to 9 lb.

Callsigns will be KD4STH-9,10,11 (I'll have one 440 beacon for fox
hunting).

I'll stick with 144.390 for APRS. The 440 beacon I have yet to
select.

I can time slot.

Paul "Is the semester really this close to ending?" Verhage

418. Re: [GPSL] CU SGC Workshop / GPSL 2003 Flight 14 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-15 15:53:01 UTC
From: mgray@ess-us.com
Topic: 416 Message: 418

> > 1. Parachute diameter or MSL terminal descent rate w/ 12# load.
> > 2. Beacon weight in flight configuration. (this deducts from the
> > allowable balloonsat load)
> > 3. Beacon callsign and SSID (-11 preferred).
> > 4. Which bands / freqs can you downlink on?
> > 5. Can your beacon transmissions be time-slotted to a particular second
> > after the top of each GPS minute? (Provides for freq sharing w/
> > other beacons).
> >
> > For ANSR and TVNSP: <<I need the same info from you as well!>>
>

Here is ANSR's information:

1. 1400'/min descent at 5000' MSL with "heavy" 12 pound load

2. Cross Band Repeater (3 pounds), Redundant Beacon (1 pound),
cutdown/antennas (0.5 pounds), 7.5 pounds for payload

3. KD7LMO-11

4. APRS on 445.950 MHz

Cross Band Repeater uplink 145.560MHz / PL 162.2
downlink 445.525 MHz

5. 445.950 MHz time slotted as follows in GPS seconds:

00, 30 Micro Beacon

10, 20, 40, 50 Cross Band repater when repeater not keyed up

15, 45 Landing prediction based on in-flight wind data collection
(After burst. SSID set to -0)

Lots of packets, but tracking and recovery likes to know where
everything is.

The cross band repeater is open for anyone to use for tracking and
recovery or general contact. It can also be set to link with the EOSS
cross band repeater in flight. So we will finally get our EBBE link.

73s de Michael Gray, ANSR, KD7LMO

419. Re: Hi from WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-15 21:29:22 UTC
From: Mike Manes
Topic: 419 Message: 419

Hi Bill,

Great to hear from you, and thanks for talking up GPSL! BTW, some of the EOSS trackers will be at Dayton as well: Benji W0CBH, Ben KB0UBZ, Larry N0NDM, Ann KA0ZFI and Chris KB0YRZ. Say hi (.... ..) to 'em if you cross paths.

Quickie info: GPSL conference will be held Fri 13 June in the Eng'g Bld'g on the Colo Univ campus in Boulder, CO. Dinner venues for Thur and Fri PM have been arranged.

The flights will go from the HS field at the SE end of Deer Trail CO, about 50 mi E of Denver on I-70, on Sat 14 June at 0900 -- we'll be setting up there at 0700 MDST.

Details & directions are at: gpsl.eoss.org.

These flights will be carrying up small "balloonsat" payloads prepared by NASA Space Grant College attendees at the concurrent Workshop sponsored by Colo Space Grant College at CU. At least four separate balloons will be launched, tracked and recovered by GPSL teams: EOSS, ANSR and TVNSP, also joined by the MT State SGC balloon team.

See: spacegrant.colorado.edu\studentsat

Thanks for your support, and I look forward to seeing you in Boulder!

BTW, consider joining the GPSL yahoogroups email reflector to get the latest/greatest dope on what we're doing.

73 de Mike W5VSI

WB8ELK@... wrote:
>
> Hi Mike,
>
> I'm going to give a talk at Dayton about GPSL 2002...and will be mentioning
> GPSL 2003....can you email the particulars for GPSL
> 2003?...schedule...location of launch, etc so I'm sure I have my facts
> straight.
>
> Is the best website for info the EOSS web site for the event?
>
> Thanks and 73s,
>
> - Bill WB8ELK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

420. [Fwd: Restaurants]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-15 02:51:01 UTC
From: Mike Manes
Topic: 420 Message: 420
Attachments: 2 described; binary payloads are missing from this source WARC

Hi Cec,

Thanks for setting that up! I've taken the liberty to forward this
on to the GPSL reflector as is to make sure all get the word.

73 de Mike W5VSI

-------- Original Message --------
Subject: Restaurants
Date: Wed, 14 May 2003 07:47:24 -0600
From: Cec Girz <cgirz@...>
To: "vonGlahn, Rick" <rickvg@...>
CC: "manes, mike" <manes@...>

Good morning, Rick!

I've attached two format with the info on the restaurants,
including some info on how to navigate Boulder streets to
get there. (Being at the Ramada on the frontage road is the
problem. They're easy to get to if you're anywhere else
in town.)

Call if you have problems with these files. I will be editing
today and probalby won't be checking email again until
tomorrow morning.

Cheers,
Cec

421. Re: [GPSL] [Fwd: Restaurants]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-17 04:08:29 UTC
From: Mike Manes
Topic: 420 Message: 421

Hi Ralph,

Chirs Koehler tells me that the Ramada is a 15-20 minute walk from the GPSL conference site. Parking on campus will tight and costly if it's found. If you need a lift, let me know -- I'll have a car.

Mike

"Ralph Wallio, W0RPK" wrote:
>
> Cec,
>
> Is the CU building where our GPSL2003 meeting will happen within reasonable
> walking distance of the Ramada Inn?
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

422. GPSL2003 forum topic(s)

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-17 11:11:47 UTC
From: Ralph Wallio, W0RPK
Topic: 422 Message: 422

Rick,

Here is my alleged plan. A discussion of -Packet Radio Bit Error Rate- will lead us to -Radio Link Budget Analysis using Excel- and, finally (you say) to -Communications Footprint Predictions using Radio Mobile Deluxe-. I could talk for well over a hour on all three of these topics but will restrain myself to time provided.

If we are sitting around late Friday afternoon with time to kill, I can discuss a few aspects of Solar Floater. Regardless I will bring part of it for show-and-tell.

-Ralph W0RPK

423. (no subject)

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-19 11:55:42 UTC
From: Ralph Wallio, W0RPK
Topic: 423 Message: 423

Mike,

Is it reasonable to assume that we will have A/V support on Friday, e.g., a PC e/w high speed internet connection and a video projector?

TNX Ralph W0RPK

424. GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-19 10:25:24 UTC
From: Mike Manes
Topic: 424 Message: 424

Chris, could you respond to Ralph's inquiry? I think the video projector is a given, but not sure how it interfaces to a 3rd party laptop. And I assume that the video projector can show VHS tapes as well as SVGA? - Mike

"Ralph Wallio, W0RPK" wrote:
>
> Mike,
>
> Is it reasonable to assume that we will have A/V support on Friday, e.g., a
> PC e/w high speed internet connection and a video projector?
>
> TNX Ralph W0RPK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

425. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-19 23:30:27 UTC
From: mgray@ess-us.com
Topic: 424 Message: 425

What about video playback devices (VHS tape or DVD)?

Is there an S-video input available if we bring our own VCR or DVD
player?

Michael Gray
ANSR

On Mon, 19 May 2003, Mike Manes wrote:

> Chris, could you respond to Ralph's inquiry? I think the video
> projector is a given, but not sure how it interfaces to a 3rd party
> laptop. And I assume that the video projector can show VHS tapes as
> well as SVGA? - Mike
>
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> > PC e/w high speed internet connection and a video projector?
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> > TNX Ralph W0RPK
>
>

426. Re: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-20 14:25:34 UTC
From: paul.verhage@boiseschools.org
Topic: 403 Message: 426

> Hi Paul,
>
> I have Geographics going back to the 40s at my parent's place in
> Ohio...I'll look for it while I'm back there during the Dayton Hamvention.
>
> 73s de Bill WB8ELK

Bill, How did it go?

Paul

427. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-19 17:56:41 UTC
From: Mike Manes
Topic: 424 Message: 427

Hi Mike,
VHS playback and video display (usually projection) have been in
every classroom I've worked in at CU Eng'g. Not sure about DVD
or S-video. I'll wait for Chris's response re Ralph's query
re SVGA interface.

BTW Mike, Jack said he thought your flight computer payload could
downlink APRS beacons as KD7LMO-11 on 445.975 MHz, time slotted at
10 sec after the top of each GPS minute. 'Zat so?

For Paul: Still need the TVNSP APRS beacon capabilities re time
slotting, carrier detect, callsign, freqs.

73 de Mike

mgray@... wrote:
>
> What about video playback devices (VHS tape or DVD)?
>
> Is there an S-video input available if we bring our own VCR or DVD
> player?
>
> Michael Gray
> ANSR
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> > well as SVGA? - Mike
> >
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> > >
> > > Mike,
> > >
> > > Is it reasonable to assume that we will have A/V support on Friday, e.g., a
> > > PC e/w high speed internet connection and a video projector?
> > >
> > > TNX Ralph W0RPK
> >
> >
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com

>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

428. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-20 15:51:00 UTC
From: mgray@ess-us.com
Topic: 424 Message: 428

Thanks for the info on the AV equipment. I'll be sure to bring a VHS tape as well.

Here is the information on the equipment we will bring.

Should we bring our own Lithium batteries or will you have some available? I need 1 (one) for the Beacon and 3 (three) for the cross band repeater. If we need to bring them, I'll have to ship them via UPS ground ahead of time. The airlines won't let you fly with them and I'm not going to take a chance if one of them decided to "vent" during the flight.

1. 1400'/min descent at 5000' MSL with "heavy" 12 pound load

2. Cross Band Repeater (3 pounds), Redundant Beacon (1 pound), cutdown/antennas (0.5 pounds), 7.5 pounds for student payload

3. KD7LMO-11

4. APRS on 445.950 MHz

Cross Band Repeater uplink 145.560MHz / PL 162.2
downlink 445.525 MHz

5. 445.950 MHz time slotted as follows in GPS seconds:

00, 30 Micro Beacon

10, 20, 40, 50 Cross Band repater when repeater not keyed up

15, 45 Landing prediction based on in-flight wind data collection (After burst. SSID set to -0)

Lots of packets, but tracking and recovery likes to know where everything is.

The cross band repeater is open for anyone to use for tracking and recovery or general contact. It can also be set to link with the EOSS cross band repeater in flight. So we will finally get our EBBE link.

73s de Michael Gray, ANSR, KD7LMO

On Mon, 19 May 2003, Mike Manes wrote:

> Hi Mike,
> VHS playback and video display (usually projection) have been in
> every classroom I've worked in at CU Eng'g. Not sure about DVD
> or S-video. I'll wait for Chris's response re Ralph's query
> re SVGA interface.
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> BTW Mike, Jack said he thought your flight computer payload could
> downlink APRS beacons as KD7LMO-11 on 445.975 MHz, time slotted at
> 10 sec after the top of each GPS minute. 'Zat so?
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> For Paul: Still need the TVNSP APRS beacon capabilities re time
> slotting, carrier detect, callsign, freqs.
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> > >
> >
> >
> > To unsubscribe from this group, send an email to:
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> >
> >
> > Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

429. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-20 15:37:25 UTC
From: Mike Manes
Topic: 424 Message: 429

Hi Paul,

Thanks for the info. A few more questions:

1. Were you planning on flying all 3 beacons on your flight string? If so, then could you put the TT3 w/ plain text hhmmss and alt format on KPC-3 on 445.975 as KD4STH-11? Your time slot would be 20 sec after the GPS minute. We will have an I-gate station committed to the GPSL beacons on that freq.

2. How much do your beacons weigh, and which will you be flying? We want to reserve as much weight budget under the 12 lb limit for SpaceGrant balloonsats as possible.

3. If you wish, Jim K0JLZ has invited you to join him as navigator on the T&R crew. Jim has both APRS and doppler DF in his SUV.

4. Although 144.39 is a sure way to get yourself gated onto the I'net, that freq is terribly crowded out here near Denver -- you may have a hard time avoiding collisions. EOSS normally uses 144.34 or 147.555 for our 2m beacons. Our I-gate can also gate beacons from one of those freqs.

73 de Mike W5VSI

VERHAP@... wrote:
>
> > For Paul: Still need the TVNSP APRS beacon capabilities re time
> > slotting, carrier detect, callsign, freqs.
>
> I'm using a TT2 and TT3, along with a KPC3+ They should all be
> time slotted. The callsigns are KD4STH-9,10, and 11. There's no
> carrier detect. I'll use 144.390
>
> Paul

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

430. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-20 16:09:56 UTC
From: Mike Manes
Topic: 424 Message: 430

Oh, one other question: I'm scheduling the speakers for the GPSL conference Fri 13 Jun, and recall that you have a presentation to give. You'd be joined by Bill Brown, Ralph Wallio, Mike Grey and myself (+ perhaps 1 more EOSS presentation). Do you have a preferred time? The program schedule is shaping up as:

Thurs 12 June
1900 - Group dinner for early arrival at Souper Salad, Boulder

Fri 13 June
0900 - Open room, set up displays and greet attendees
1000 - 1st speaker
1100 - 2nd spkr
1200 - Lunch (I'm looking into on-site catering)
1300 - 3rd spkr
1400 - 4th spkr
1500 - Final plans, forecasts Q&A for GPSL flight Sat 14th.
1600 - Adjourn
1700 - GPSL Banquet at Turley's Restaurant
1900 - EOSS preflight net on 147.225 / 145.46 rptr (107.3 PL)
this is 1 hr earlier than normal due to 1.5 hr AM drive

Sat 14 Jun
0530 - Depart Boulder for Deer Trail (I-70 50 mi E of Denver)
0700 - Arrive Deer Trail High School launch site
0900 - Launch 4-5 ballons w/ balloonsats
1115 - Tally-hos begin.
1300(?) - Meet at Marty's favorite greasy spoon (TBD depending on landing sites) for lunch and recap.

73 de Mike W5VSI

VERHAP@... wrote:
>
> > For Paul: Still need the TVNSP APRS beacon capabilities re time
> > slotting, carrier detect, callsign, freqs.
>
> I'm using a TT2 and TT3, along with a KPC3+ They should all be
> time slotted. The callsigns are KD4STH-9,10, and 11. There's no
> carrier detect. I'll use 144.390
>
> Paul

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.

Einstein

431. Re: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-21 06:28:33 UTC
From: wb8elk@aol.com
Topic: 403 Message: 431

Hi Paul,

I found a lot of Geographics in the garage and barn, but couldn't find the early sixties, sad to say.

Hope you find another source.

- Bill WB8ELK

BTW, I gave a talk about GPSL2002 at the Dayton Hamvention ATV forum and also at the ATV dinner on Friday night.....everyone loved the Mr. Potato Head in Jail photos. I gave out info on GPSL2003 so hopefully some folks will be interested.

432. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-21 11:40:49 UTC
From: Mike Manes
Topic: 424 Message: 432

Hi Mike,

I failed to mention payload flight line to support up to 8 balloonsats. They're fitted with vertical thru tubes to pass at least a 3/32" OD line (we use Technical Textiles dacron for this), and will be spaced at spaced about every 12" down the line and separated by a half-hitch on a bight. EOSS can supply this if you can't. You will need a bowline at the bottom of your flight line to tie the balloonsat string to, however.

OK on the 4 @ Li D-cells. I assume that you use the 1.32" OD x 2.3" H cells from surplus BA-5513/U packs? Trade ya for a dc-dc converter?

Re the APRS downlink freqs: EOSS has taken the responsibility for notifying the FAA (Denver Center and DIA Tracon) of what could be up to five separate balloon positions in flight. This is part of long-standing agreement that allows us to operate in one of heaviest-trafficked air corridors in the US. During the past 3 EOSS flights, the local FAA controllers have taken a strong liking to the 60-sec VOR and altitude updates provided via www.wxqa.com, and they will expect the same during GPSL.

445.975 MHz has been designated as the time-slotted APRS downlink freq for what could be up to five separate balloon tracking beacons. This freq has been shown to be free of QRM in the Denver area, and it's the one that our Igate stations will be tuned to on 70 cm. So in order to accomodate 60-sec APRS updates from five separate beacons, we will have to time slot at :00, :10, :20, :30 and :40 after the GPS minute. So as you can see, this freq can't support much more than just those beacons, and certainly not 8 slots from just one balloon. At least some of these beacons are "deaf", so conventional CD collision avoidance will not be operative.

I'd propose that you put your micro-beacon, time slotted at 0:10 on 445.975, and your flight computer downlink on a separate freq -- say 446.025. This will provide your rapid-update and still leave room for your cross-band repeater downlink on 445.525.

In the interest of conserving weight, and in view of the fact that the EOSS crossband uplink is rockbound on 445.975 (which is how we know it's a clear freq!), I don't plan on flying that module during GPSL. I do plan on flying the EOSS APRS module and APRSLite (2.3 & 1.7 lb) on the EOSS string; the 445.975 bcn will be slotted at 0:00, and the other will be on 144.34. This leaves 8.0 lb for balloonsats. Weight budget permitting, I'll add the 1.1 lb DF/cutter on 145.600.

For Bill Hiscock: still need your beacon and 'chute properties and
weights.

For Paul Verhage: can your beacon operate on 445.975? And I need your
beacon weight(s) and 'chute properties.

73 de Mike W5VSI

mgray@... wrote:
>
> Thanks for the info on the AV equipment. I'll be sure to bring a VHS tape
> as well.
>
> Here is the information on the equipment we will bring.
>
> Should we bring our own Lithium batteries or will you have some available?
> I need 1 (one) for the Beacon and 3 (three) for the cross band repeater.
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> time. The airlines won't let you fly with them and I'm not going to take
> a chance if one of them decided to "vent" during the flight.
>
> 1. 1400'/min descent at 5000' MSL with "heavy" 12 pound load
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> cutdown/antennas (0.5 pounds), 7.5 pounds for student payload
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> 4. APRS on 445.950 MHz
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>
> 15, 45 Landing prediction based on in-flight wind data collection
> (After burst. SSID set to -0)
>
> Lots of packets, but tracking and recovery likes to know where
> everything is.
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> The cross band repeater is open for anyone to use for tracking and
> recovery or general contact. It can also be set to link with the EOSS
> cross band repeater in flight. So we will finally get our EBBE link.
>
> 73s de Michael Gray, ANSR, KD7LMO
--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

433. Re: Transport in Boulder

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-21 12:29:34 UTC
From: Mike Manes
Topic: 433 Message: 433

Hi Ralph,

Sorry to hear about the scotched plans to visit old friends out
thisaway.
But thanks for hanging in for GPSL! I know there are folks who will
enjoy meeting you for the first time.

I've not yet got my head around where I'll spend Fri nite. My QTH
is a bit closer to Deer Trail than Boulder is, and I'll need to get
the >>ElectroVan<< fully loaded as well. So may not even be able to
make the Fri PM Banquet. I might even consider getting a room in
Byers (10 mi W of Deer Trail) that night to get on site for setup
at 0600. But I'm sure that you'll find transport, either with GPSL
folks or a van from the Ramada. I'll check the latter availability.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Mike,
>
> Thanks for your offer which will probably help. Bill Brown may also be
> staying in the Ramada Inn and there might be others. I could be ready to go
> substantially earlier than for our 10am schedule so anything will work.
>
> It occurs to me that there will be Space Grant attendees needing a ride.
> Perhaps they will have a van going back and forth a few times, maybe a
> Ramada Inn courtesy van. I will call them and pass on what they tell me.
>
> We had planned on several days of family vacation in the area before
> arriving in Boulder on Thursday afternoon. However, several realities
> raised their ugly heads and our vacation had to be cancelled. I will be
> able to leave home Wednesday afternoon but have to be back mid-day on
> Sunday.
>
> It is not reasonable for me to make the long driving trip by myself.
> Daughter Stephanie is making my participation possible by coming along for
> the ride. She has a close friend who is working in Englewood for a few
> months on assignment. They will be together on Friday while we are at CU
> and then Steph and I will be at Deer Trail on Saturday morning on our way
> back east to her home in Lawrence.
>
> Thanks for GPSL2003!
>
> - Ralph W0RPK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

434. Re: [GPSL] National Geographics, Jan 1963

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-21 12:52:34 UTC
From: Mike Manes
Topic: 403 Message: 434

Hi Bill,

Thanks for pitching GPSL at Dayton - guess we'll find out if there were any takers, eh? And I have you slotted for 1 hr at GPSL - hope that'll be enough time. We have 4 1 hr slots - 2 AM and 2 after lunch. Any preference?

There's been a lot of chatter and pondering about going to WBFM ATV on 1.2 or 2.4 GHz lately. I think WBFM would present a less severe QRM problem for other stuff on the payload string (the KPA-5 wiped out GPS lock on the EOSS-66 / UK Big Blue glider). And I think I might be able to get better than 50% dc->rf power conversion on 1.2 GHz using a modulated PP power osc. Your thoughts would be welcome.

73 de Mike W5VSI

wb8elk@... wrote:
>
> Hi Paul,
>
> I found a lot of Geographics in the garage and barn, but couldn't find the
> early sixties, sad to say.
>
> Hope you find another source.
>
> - Bill WB8ELK
>
> BTW, I gave a talk about GPSL2002 at the Dayton Hamvention ATV forum and also
> at the ATV dinner on Friday night.....everyone loved the Mr. Potato Head in
> Jail photos. I gave out info on GPSL2003 so hopefully some folks will be
> interested.
>
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--
Mike Manes manes@... Tel: 303-979-4899
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435. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 14:25:01 UTC
From: paul.verhage@boiseschools.org
Topic: 424 Message: 435

> For Paul Verhage: can your beacon operate on 445.975? And I need your
> beacon weight(s) and 'chute properties.

It can. Both of my stacks will weigh around 9-10 pounds each.
That includes beacon.

My chutes will descend at around 1000-1200 feet per minute. I'm
using a 5' diameter chute on one stack and a new 7' chute on the
second.

Paul

436. GPSL Launches

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 14:43:12 UTC
From: paul.verhage@boiseschools.org
Topic: 424 Message: 436

Mike, will it be alright for me tolaunch two stacks with you folks providing the gas and balloon? How about if we can field equipment for three stacks?

Paul

437. GPSL and 2m

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 02:58:38 UTC
From: Mark Conner
Topic: 437 Message: 437

Hi all,

I'm hoping to fly June 14th from the Omaha area, at the same time the large group is flying in Colorado. Will anyone out there be sending packet data on 2 meters? Perhaps one of the payloads could transmit via NSTAR and we'd see if we could get it digipeated this way. It wouldn't be a 2-way path, but at least we'd get BBE out of the deal.

Also, if someone were doing crossband voice to 70cm out, we could put our simplex repeater on the output and maybe pick that up too.

73 de Mark N9XTN

438. Re: GPSL conference

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 10:51:15 UTC
From: Mike Manes
Topic: 438 Message: 438

Hi Bill,

The "400 lb gorilla" in my 70cm ATV package is 0.6 lb of Li batts
to run it for 3 hrs. That 1W out/6W in (16%) power conversion
effiency gags me. I've seen power oscillators do better than 90%
at 1 MHz, and CU has developed ~80% 2.5 GHz RF sources for the old
microwave satellite solar power idea (shades of N. Tesla!). I figger
it's simple to FM a "semi-disciplined" uW power osc and run the whole
rig for a flight using one 85 gm 4 A-hr Li cell.

You have the 1300 slot on Friday. Thanks!

73 de Mike W5VSI

WB8ELK@... wrote:
>
> I prefer after lunch for the talk.
>
> Probably the easiest way to generate decent power for a balloon is to go with
> the TVHAM.com solution....their 50 milliwatt transmitter along with their 1
> watt amplifier module....$88 each. This is for 23cm band.....for 2.4 GHz they
> have equipment as well...I like to use the micro and nano-wheels that Dave
> Clingerman makes for these bands. I've run 1 watt on 2.4 GHZ FM ATV before from a
> balloon and got P5 signals at 25 miles....but not sure just how much further
> you can get....probably best to use 23 cm band for best range.
>
> - Bill WB8ELK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

439. Re: GPSL transport and catering?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 09:34:58 UTC
From: Mike Manes
Topic: 439 Message: 439

Thanks Chris,

For Ralph: It looks like a under a one mile hike to the GPSL site, but I suspect that rides will be available if you need one. The big kink is pricey and rare on-campus parking.

For Bernadette Garcia: What do you show for box lunches @ about $5 per person delivered to the Eng'g bldg on Fri 13 June? How about AM coffee / juice & bagels / donuts?

For GPSL attendees: any dietary preferences or restrictions for lunch?

73 de Mike W5VSI

Chris Koehler wrote:
>
> There is no shuttle service from the hotel. The old fashioned shuttle
> is the only thing available (by foot).
>
> There are many good caterers but the prices range all over the place.
> Contact Bernadette Garcia (cc in this message for more details)
>
> Chris Koehler
> Deputy Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750
> spacegrant.colorado.edu
--
Mike Manes manes@... Tel: 303-979-4899
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440. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 09:42:11 UTC
From: Mike Manes
Topic: 424 Message: 440

Hi Chris,

I assume the laptop also has uSoft PowerPoint loaded? If not, then
I can bring one that does, but not sure how to interface to your
projector -- safe to assume it has a SVGA cable supplied?

And I'll bring along the EOSS VCR and RCA cables for tapes.

Have you got a final meeting room for the GPSL conference assigned?
If so, could you provide directions / map?

BTW, http://gpsl.eoss.org has Rick's fine stuff on the GSPL event/

73 de Mike W5VSI

Thanks!

73 de Mike W5VSI

Chris Koehler wrote:
>
> Mike,
>
> I have been on vacation, sorry for the delay on my responses.
>
> We can get you a LCD projector, screen, and one laptop that has a DVD
> player but I don't have a VCR. I will be checking the room next week to
> make sure but I don't think it has a VCR. You will have to bring one to
> hook up to the projector.
>
> Chris Koehler
> Deputy Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750
> spacegrant.colorado.edu
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Monday, May 19, 2003 11:57 AM
> To: Mike Gray KD7LMO - ANSR; Paul Verhage KD4STH
> Cc: GPSL@yahoogroups.com; Ralph Wallio, W0RPK; Chris Koehler - CU Space
> Grant
> Subject: Re: [GPSL] GPSL A/V & i'net?
>
> Hi Mike,
> VHS playback and video display (usually projection) have been in

> every classroom I've worked in at CU Eng'g. Not sure about DVD
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> > > > Mike,
> > > >
> > > > Is it reasonable to assume that we will have A/V support on
> Friday, e.g., a
> > > > PC e/w high speed internet connection and a video projector?
> > > >
> > > > TNX Ralph W0RPK
> > >
> > >
> > >
> > > ---------- Yahoo! Groups Sponsor
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> > > To unsubscribe from this group, send an email to:
> > > GPSL-unsubscribe@yahoogroups.com
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> http://docs.yahoo.com/info/terms/
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

441. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 10:23:02 UTC
From: Mike Manes
Topic: 424 Message: 441

Hi Paul,

Yup! CU has some NASA Spacegrant budget to supply the GPSL teams
that can carry at least >7 lb< of >recovered< balloonsats with 1200 gm
latex bags and the He to fill 'em for ~ 1000 fpm for 12 lb.
They'll be supplied gratis by EOSS at the launch site.

So you should keep hacking away at your stacks to get 'em down to <5 lb,
including any backup beacons. Note that the EOSS team can do DFing
on a any backup beacon on 2m having at least 300 mW ERP (DJ-C1).
I've come up with a corrolary to K.I.S.S for ballooning: K.I.L.L:
"Keep It Light, Larry!", w/ apologies to Larry "Lawnchair" Walters,
may his soul Rest in Peace.... (or was that "Lunkhead"? ...)

The balloonsats use Onset Hobos to log data, so they don't use or need
downlinks. So provide yer own RF. But that makes recovery a must!

How much assistance will you need to fill two ballons in time for
a mass launch at 0900? EOSS is having to grub a bit for balloon prep
crews. Maybe you could bend a few TVNSP arms to join you? More the
merrier.

Which KD4STH SSIS's will you be using? We need these to get 'em set
up for the FAA VOR reports on wxqa.com.

73 de Mike W5VSI

VERHAP@... wrote:

> Free balloons and gas?!
> I was about to order two balloons. I'll launch one capsule with each
> stack and keep the weight to 6 pounds. I'd like to fly a backup
> beacon on a seperate capsule. I'll bring them in case there's some
> extra weight.
>
> Are the balloonsats sending telemetry? I could use those as a
> backup beacon.
>
> Paul
>
> >
> > You can have the 0:30 and 0:40 time slots on 144.34, and your callsigns
> > will KD4STH-11 and -12. You'll be sharing that freq with the backup
> > EOSS APRS beacon (I've gotta test fly the APRSLite that crumped on
> > EOSS-66 to regain confidence in it).
> >
> > I hope that the balloonsat kits come in closer to 500 than 700 gm,

> > especially if 25 teams show. This would pare the student load
> > back to 27.6 lb, leaving you and MT just 12.1 lb to split up. Then
> > you could fly some more goodies. We should be hearing more accurate
> > figures from CU by the end of May.
> >
> > THanks, and look forward to a fun event next month!
> >
> > 73 de Mike W5VSI, EOSS
> >
> > VERHAP@... wrote:
> > >
> > > > Hi Paul,
> > > >
> > > > Thanks for the info. A few more questions:
> > > >
> > > > 1. Were you planning on flying all 3 beacons on your flight string?
> > > > If so, then could you put the TT3 w/ plain text hhmmss and alt format
> > > > on KPC-3 on 445.975 as KD4STH-11? Your time slot would be 20 sec after
> > > > the GPS minute. We will have an I-gate station committed to the GPSL
> > > > beacons on that freq.
> > >
> > > I plan to launch two stacks. What time slots do you want for the
> > > second stack?
> > >
> > > > 2. How much do your beacons weigh, and which will you be flying?
> > > > We want to reserve as much weight budget under the 12 lb limit for
> > > > SpaceGrant balloonsats as possible.
> > >
> > > I can probably keep each stack to 9 pounds. If you need more
> > > available weight, I'll modify my experiments. I'll carry cameras on
> > > each stack. If we can place the balloon sats below mine, I'll get
> > > photos of the balloonsats.
> > >
> > > > 3. If you wish, Jim K0JLZ has invited you to join him as navigator on
> > > > the T&R crew. Jim has both APRS and doppler DF in his SUV.
> > >
> > > That sounds fine. Thanks.
> > >
> > > > 4. Although 144.39 is a sure way to get yourself gated onto the I'net,
> > > > that freq is terribly crowded out here near Denver -- you may have a
> > > > hard time avoiding collisions. EOSS normally uses 144.34 or 147.555
> > > > for our 2m beacons. Our I-gate can also gate beacons from one of
> > > > those freqs.
> > >
> > > I'll switch to 34 then.
> > >
> > > Paul
> >
> > --
> > Mike Manes manes@... Tel: 303-979-4899

> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
> >
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

442. Re: [GPSL] GPSL Launches

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-22 10:29:37 UTC
From: Mike Manes
Topic: 424 Message: 442

Hi Paul,

If you and whomever TVNSP comes along can track and recover >three<
balloons, then go for it. But CU and EOSS have agreed to support
only a max of five balloons for GPSL & the CU Workshop. To date,
those will be EOSS(1), ANSR(1), Mt St(1) and TVNSP (2). K.I.L.L!
The 6th balloon and gas are held in reserve for launch contingency
only.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Mike, will it be alright for me tolaunch two stacks with you folks
> providing the gas and balloon? How about if we can field
> equipment for three stacks?
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

443. Re: [GPSL] Re: GPSL transport and catering?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 14:15:21 UTC
From: paul.verhage@boiseschools.org
Topic: 439 Message: 443

> For GPSL attendees: any dietary preferences or restrictions for lunch?

My only restrictions is that the food taste good and there be plenty
of it.
;)

Paul

444. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 14:18:02 UTC
From: paul.verhage@boiseschools.org
Topic: 424 Message: 444

> How much assistance will you need to fill two ballons in time for
> a mass launch at 0900? EOSS is having to grub a bit for balloon prep
> crews. Maybe you could bend a few TVNSP arms to join you? More the
> merrier.

I'm trying to get a few TVNSPers out this way. Dr. Hiscock and
the Montana Boys will help me with the filling and launching.

> Which KD4STH SSIS's will you be using? We need these to get 'em set
> up for the FAA VOR reports on wxqa.com.

I'll use KD4STH-11 and 9.

I'll work on the weight and get it down to 5 pounds each.

Paul

445. Re: [GPSL] GPSL Launches

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 14:18:52 UTC
From: paul.verhage@boiseschools.org
Topic: 424 Message: 445

> If you and whomever TVNSP comes along can track and recover >three<
> balloons, then go for it. But CU and EOSS have agreed to support
> only a max of five balloons for GPSL & the CU Workshop. To date,
> those will be EOSS(1), ANSR(1), Mt St(1) and TVNSP (2). K.I.L.L!
> The 6th balloon and gas are held in reserve for launch contingency
> only.

Thansk for the info. I'll launch just two balloons.

Paul

446. Re: Fwd: [GPSL] GPSL East?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-24 04:51:24 UTC
From: Don Pfister
Topic: 446 Message: 446

There is now a possiblity that HABITAT SkyLab may launch locally during GPSL 2003 in June.

There is also the possiblity we could in July (and/or ?), again locally.

Don

Don Pfister wrote:

> --- paul.verhage@... wrote:
> > To: GPSL@yahoogroups.com
> > From: <paul.verhage@...>
> > Date: Sat, 19 Apr 2003 15:33:47 -700
> > Subject: [GPSL] GPSL East?
> >
> > Is there an interest in launching balloons in the Kansas/Nebraska
> > area after GPSL? I'll be visiting my parents during the 4th of July
> > holidays. Perhaps a second GPSL can be arranged for this time.
> >
> > Paul

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

PFranc of KS.

447. Re: CU SGC Workshop / GPSL 2003 Flight 14 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 04:32:17 UTC
From: Mike Manes
Topic: 416 Message: 447

Hi Bill,

My apologies for any unintended snub regarding the title of the workshop -- I think I generally refer to it as the CU SGG BalloonSat Workshop, at least when introducing the event.

And as you may have learned, the 2003 Great Plains Super Launch (GPSL) is being hosted by EOSS this year and will be held inconjunction with the Workshop. GPSL attendees will be meeting all day Fri 13 June at CU, courtesy Chris Koehler. We plan to meet for dinner at the Souper Salad Thursday evening, any you and Chris are more than welcome to join us - I think we can work out any last minute hitches then. And you or another of the Mt State team is welcome to the GPSL conference as well. See http://gpsl.eoss.org for all the details.

Regarding the APRS beaconing: EOSS has committed to provide FAA Denver Center and DIA Tracon controllers with enroute position reports as per last year. But since that time, some of our group have developed a web-based APRS reporting system using findu.com processes. This scheme provides FAA controllers with VOR radial and range with altitude reports with 60-sec updates. We've used it on the last 3 EOSS flights, and the FAA have taken a strong liking to it. And it saves us a bunch of cell phome roaming fees as well. This system relies entirely upon certain cooperating Denver-area ham stations to serve as gateways (Igates) from the 70cm and 2m APRS beacon downlinks and into the internet. So far, our Igates can receive only one 70cm freq and one 2m freq at a time.

Since last year, the FAA has become pretty antsy about balloons intruding on DIA approach and departure corridors -- we're launching just 35 NM from DIA. So even though all of the Workshop flights are FAR-101 exempt, EOSS has a policy of letting the FAA know where we are so they can keep their aeroplanes away from our valuable payload strings :=}.

Thus for this flight of five balloons, we are compelled to do some frequency reuse by means of time-slotting, i.e, allocating each balloon its own 10-sec segment of each GPS UTC minute in which it can xmit its APRS beacon without stepping on another. For that purpose, EOSS has picked 445.975 MHz and 144.340 MHz, both of which have been proven to be QRM-free during past flights. The 144.39 MHz APRS backbone would eventually get you gated into the internet, provided you include IGATE in you path; but that freq is extremely busy in the Denver area, even for terrestrial stations. We tried it once during a flight, and our KPC-3's mind got blown ascending above 40K' and it stopped generating position reports. And any APRS

beacon hitting on 144.39 every 11 sec is sure to create consternation amongst the Front Range APRS community.

In the event of an APRS failure, EOSS is prepared to manually track the balloons and make cell phone reports.

Now, you are not the only balloon team that would like to downlink more frequent reports. EOSS would like to as well. So what we have done in those cases is to carry two APRS beacons on each balloon. One operates on one of the shared freqs with 60-sec time slotted time, lat/lon and altitude, while the busier downlink goes on a separate freq. And it's not a bad idea to carry up a spare beacon - it's saved EOSS's bacon many times in the past!

An easy, albeit costly, backup beacon can be built using a Kenwood D-7 HT plus any GPS receiver that has NMEA $GPGGA serial output. Or the cheap route is to get a Dyoincs TinyTrak 3 and a cheap HT (Alinco DJ-C5 dual-bander is flight proven), plus the GPS; this does require more sweat equity, however. Either one can yield a flight-ready package that weighs under 1.7 lb with antenna and 48-hrs of battery.

If neither of these alternatives is acceptable, then I'd propose that you do you own thing and accept the responsibility for making you own FAA reports. At launch and up thru FL230, call DIA Tracon Ops at 303-342-1590; above that up thru FL600, call Denver Center Military Desk at 303-651-4252. Let them know your cell phone number. Reverse that process during descent, and call 'em both when you've landed. These reports should include your flight ID (EOSS-67C, which will have been filed on our HiBal Notice), altitude, time and VOR position (3-letter VOR ID, mag radial and NM range) For this flight, suggest you use the Falcon (FQF) VOR. The controller will advise you at which altitude to make your next report. (They normally ask for FL230, 350, 450 and 600 in ascent and dscent, but if we're close to DIA, they may want more frequent reports). These reports should be no more than 3 minutes old when you call 'em in.

For Merle K0YUK: can you let Bill know what fill tube diameter to use with a 1200 gm Kaysam?

"W. A. Hiscock" wrote:
>
> Mike:
>
> Sorry for the delay, I finally have some answers for your questions. See
> below.
>
> And we should all refer to the workshop as the "Space Grant Workshop",
> not the CU workshop, please.
>
> Mike Manes wrote:
>

> >
> > 1. Parachute diameter or MSL terminal descent rate w/ 12# load.
>
> Parachute diameter is 9 feet; terminal descent rate w/12# load is rated
> at 15-20 fps.
>
> > 2. Beacon weight in flight configuration. (this deducts from the
> > allowable balloonsat load)
>
> Not counting the parachute (as I know EOSS does not), our beacon (we
> call it the "command capsule") total weight is anticipated to be about
> 1800 g, or just under four pounds.
>
> > 3. Beacon callsign and SSID (-11 preferred).
>
> KD7MFJ-11
>
> > 4. Which bands / freqs can you downlink on?
>
> We usually downlink our APRS packets on 144.39, which is not so crowded
> up here in MT.
>
> Our preference would be to stay in the 2 m band. We also like to send
> packets more often than 1/minute (we usually send at the max possible
> rate, 11 sec. period with our equipment). It would be ideal for us to
> have our APRS tracking on a 2-m frequency offset from the other balloons
> so that we can utilize a high packet rate and not get involved in time
> slotting (which we've never done -- I'm very leery about trying new
> things, esp. with so many other folks on the airwaves).
>
> > 5. Can your beacon transmissions be time-slotted to a particular second
> > after the top of each GPS minute? (Provides for freq sharing w/
> > other beacons).
>
> We have no experience with this, and, as I said above, I'd rather not be
> experimenting with new techniques when the emphasis is on a safe ride
> for the workshop balloonsats.
>
> Finally, a question for your regarding balloon fill plumbing: we've used
> 1500g Kaysams, but never a 1200 g. Is the nozzle diameter the same as
> the 1500? We need to make sure we've got the right diameter pipe to do
> the fill.
>
> Looking forward to the GPSL,
>
> Bill
>
> P.S. I think Chris may have already mentioned this idea, but I think it
> would be very valuable to have a dinner of all the team Flight Directors
> (EOSS, TVNSP, ANSP, MT BOREALIS, plus Chris and myself representing the

> SG workshop), possibly on Thursday, to do final coordination on plans
> and frequencies, as we did last year. Saturday morning is just too
> hectic.
>
> ***
> William A. Hiscock (406)-994-6170
> Professor of Physics (406)-994-4452 (FAX)
> Director, Montana Space Grant Consortium hiscock@...
> 261A EPS Building KD7MFF
> Montana State University
> Bozeman, MT 59717-3840
> http://www.physics.montana.edu/faculty/hiscock
> ***

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

448. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 04:57:52 UTC
From: Mike Manes
Topic: 424 Message: 448

Hi Paul,

Let Bill know which fill tube diameter needed for a 1200 gm Kaysam,
in case Merle missed my earlier embedded request replying to Bill's
email.

Thanks for getting the weight down! Assuming the worst-case (700 gm)
balloonsat weight, here's the 'sat allocation per flight string:

EOSS (EOSS-67A): 8.0 lb, 5 sats
ANSR (EOSS-67B): 7.5 lb, 4 sats
Mt State (EOSS-67C): 8.0 lb, 5 sats
TVNSP-A (EOSS-67D): 7.0 lb, 4 sats
TVNSP-B (EOSS-67E): 7.0 lb, 4 sats.
Total: 37.5 lb, 22 @ 700 gm sats.
(The EOSS-67 stuff is for FAA "side number" reporting purposes only)

This may be just right, depending on the number of teams attending
the SGC Workshop. If the 'sats come in at 500 gm, then the 37.5 lb
limit will go a whole lot farther.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> > How much assistance will you need to fill two ballons in time for
> > a mass launch at 0900? EOSS is having to grub a bit for balloon prep
> > crews. Maybe you could bend a few TVNSP arms to join you? More the
> > merrier.
>
> I'm trying to get a few TVNSPers out this way. Dr. Hiscock and
> the Montana Boys will help me with the filling and launching.
>
> > Which KD4STH SSIS's will you be using? We need these to get 'em set
> > up for the FAA VOR reports on wxqa.com.
>
> I'll use KD4STH-11 and 9.
>
> I'll work on the weight and get it down to 5 pounds each.
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
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>
>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

449. Re: [GPSL] Re: GPSL transport and catering?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 04:36:59 UTC
From: Mike Manes
Topic: 439 Message: 449

Hi Paul,
Ok .... that's one large canadian bacon pizza, right? :={}
Mike

paul.verhage@... wrote:
>
> > For GPSL attendees: any dietary preferences or restrictions for lunch?
>
> My only restrictions is that the food taste good and there be plenty
> of it.
> ;)
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

450. Re: [GPSL] GPSL Launches

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-23 05:00:42 UTC
From: Mike Manes
Topic: 424 Message: 450

Hi Paul,

A bit of a letdown from the 6 we did last year - guess Denver is just
too far off the beaten path to attract that many balloon groups :={.
How's the NWSL coming along?

73 de Mike W5VSI

paul.verhage@... wrote:
>
> > If you and whomever TVNSP comes along can track and recover >three<
> > balloons, then go for it. But CU and EOSS have agreed to support
> > only a max of five balloons for GPSL & the CU Workshop. To date,
> > those will be EOSS(1), ANSR(1), Mt St(1) and TVNSP (2). K.I.L.L!
> > The 6th balloon and gas are held in reserve for launch contingency
> > only.
>
> Thansk for the info. I'll launch just two balloons.
>
> Paul
>
>
> To unsubscribe from this group, send an email to:
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>
>
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

451. Re: GPSL Schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-26 01:12:05 UTC
From: Mike Manes
Topic: 451 Message: 451

Hi Mike,

OK -- yer on at 1000 - 1100 on Friday the 13th (I didn't schedule this date!) We have five one-hour slots scheduled, and all are full. BTW, Bill Brown is one of the speakers. I'm getting behind on passing the word to alcon - too many arns inna farh! If you want to show your DVD during the 0900 - 1000 reception, that would be great as well.

Attendees are all experienced balloonists, so "fundamentals" may not draw too much interest. But new stuff, like ANSR's liason with AZ Space Grant, sure would. That and the prospect of national IRPL balloon net -- and yer on-board BallTrack algorithm. etc. OF course, historical perspectives pre-helium :=} are neat as well.

73 de Mike W5VSI

mgray@... wrote:
>
> Not sure what the forum schedule is, but I'll take the first slot. I have
> a generic, high altitude ballooning DVD I'd like to show. It has video
> from the Bill Brown's first flight, how to prep and launch, payloads,
> information on student projects, building hardware, etc. It is generic
> and doesn't really talk about ANSR. It is about 12 minutes long. Maybe
> we can show this at 9:45 AM and then start with the ANSR presentation at
> 10:00 AM. But let me know. I'm flexible and have plenty of material to
> fill one or two sessions.
>
> 73s and thanks for all your effort in getting this project going
>
> At least we'll have a Star Bucks in Boulder and no humdidty.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

452. Re: CU SGC Workshop / GPSL 2003 Flight 14 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-26 01:02:38 UTC
From: Mike Manes
Topic: 416 Message: 452

Hi Bill,

I know what a pain it is having to share the spectrum and stratosphere
with all these other folks. It's like herding cats from this end!
But unless we all wanna carry up FAA Mode-3 transponders (7lb + batts,
1 KW PEP pulse emissions at 1 GHz + kilobucks ....), this is the only
reasonable alternative I can come up with.

The Kenwood D7 can be configured for time-slotting - a number of other
groups use 'em as well. Only thing I don't like is that >B0-o-O-gus<
Mic-key cryptic APRS format! Fortunately, findu.com and wxqa.com
capiche Mic-key.

Recommend you or one of yer team spend an hour with the D7 manual and
a glass of vintage Chateau Bayonne to discover the secrets ensconced in
Japlish :=}. Altho a secondary beacon would be desirable, it does
deduct from the balloonsat payload budget; I think Mark Caviezel of
ES-OS may have one for loan - he's on this reflector.

Let me know how you fare, and have a good Memorial Day.

73 de Mike W5VSI

Bill Hiscock wrote:
>
> Mike:
>
> Thanks for the details of how EOSS is working with Denver Center and
> Tracon, that helps me (and our crew) understand why we can't simply use
> different frequencies as we did last year.
>
> Our taking over responsibility for our balloon with ATC is, in my
> opinion, out of the question. As you've noted, this is some of the
> busiest airspace in the country, and there is NO way I'd want to fly
> there without the history, connections, and procedures EOSS has
> developed with ATC.
>
> I see two ways we can try to go:
>
> (1) Last year, we flew a secondary EOSS beacon on our stack. Is it
> possible there might be an EOSS APRS beacon we could fly that would
> handle the time-slotted reporting necessary for ATC? This would leaving
> our beacon free on another frequency to send more frequent packets --
> but the important point is that it would eliminate the need for our team
> to learn how to handle the time slotting (perhaps this is a simple
> matter, I just don't know).

>
> (2) If EOSS cannot provide a secondary beacon we could fly, then I think
> we just have to step up and learn how to handle the time slotting
> requirement. I'll have our crew start looking into this in any case. Our
> hardware is quite simple -- a Garmin GPS hooked into a Kenwood TH-D7.
>
> Whatever additional information you can provide is very welcome and
> appreciated.
>
> I suspect Chris and I will be joining you for dinner on Thursday night,
> along with Sean Kirn, our MT Flight Director (grad student in EE), to
> make sure we've got all the details worked out for Saturday morning.
>
> Thanks for the invitation to the GPSL event at CU Friday, and I wish I
> could attend, but our ballooning team will be busy Friday with the
> workshop participants, so I'm afraid we'll miss it.
>
> Again, thanks Mike, and I'm sure we'll get this worked out. Looking
> forward to the workshop and GPSL.
>
> Bill
>
> Mike Manes wrote:
> >
> > Hi Bill,
> >
> > My apologies for any unintended snub regarding the title of the
> > workshop -- I think I generally refer to it as the CU SGG BalloonSat
> > Workshop, at least when introducing the event.
> >
> > And as you may have learned, the 2003 Great Plains Super Launch (GPSL)
> > is being hosted by EOSS this year and will be held inconjunction with
> > the Workshop. GPSL attendees will be meeting all day Fri 13 June
> > at CU, courtesy Chris Koehler. We plan to meet for dinner at the
> > Souper Salad Thursday evening, any you and Chris are more than welcome
> > to join us - I think we can work out any last minute hitches then. And
> > you or another of the Mt State team is welcome to the GPSL conference as
> > well. See http://gpsl.eoss.org for all the details.
> >
> > Regarding the APRS beaconing: EOSS has committed to provide FAA Denver
> > Center and DIA Tracon controllers with enroute position reports as per
> > last year. But since that time, some of our group have developed
> > a web-based APRS reporting system using findu.com processes. This
> > scheme provides FAA controllers with VOR radial and range with altitude
> > reports with 60-sec updates. We've used it on the last 3 EOSS flights,
> > and the FAA have taken a strong liking to it. And it saves us a bunch
> > of cell phome roaming fees as well. This system relies entirely upon
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> > (3-letter VOR ID, mag radial and NM range) For this flight, suggest
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> > > Mike:
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> > > Sorry for the delay, I finally have some answers for your questions. See
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> > >
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> > >
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> > > > 1. Parachute diameter or MSL terminal descent rate w/ 12# load.
> > >
> > > Parachute diameter is 9 feet; terminal descent rate w/12# load is rated
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> > >
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> > >
> > > Not counting the parachute (as I know EOSS does not), our beacon (we
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> > >
> > > > 3. Beacon callsign and SSID (-11 preferred).
> > >
> > > KD7MFJ-11
> > >
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> > >
> > > We usually downlink our APRS packets on 144.39, which is not so crowded
> > > up here in MT.
> > >
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> > > rate, 11 sec. period with our equipment). It would be ideal for us to
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> > > so that we can utilize a high packet rate and not get involved in time
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> > >
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> > > for the workshop balloonsats.
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> > > 1500g Kaysams, but never a 1200 g. Is the nozzle diameter the same as
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> > > the fill.
> > >
> > > Looking forward to the GPSL,
> > >
> > > Bill
> > >
> > > P.S. I think Chris may have already mentioned this idea, but I think it
> > > would be very valuable to have a dinner of all the team Flight Directors
> > > (EOSS, TVNSP, ANSP, MT BOREALIS, plus Chris and myself representing the
> > > SG workshop), possibly on Thursday, to do final coordination on plans
> > > and frequencies, as we did last year. Saturday morning is just too
> > > hectic.
> > >
> > > **********
> > > William A. Hiscock (406)-994-6170
> > > Professor of Physics (406)-994-4452 (FAX)
> > > Director, Montana Space Grant Consortium hiscock@...
> > > 261A EPS Building KD7MFF
> > > Montana State University
> > > Bozeman, MT 59717-3840
> > > http://www.physics.montana.edu/faculty/hiscock
> > > **********
> >
> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
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453. Re: [GPSL] Re: GPSL transport and catering?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-26 20:39:55 UTC
From: paul.verhage@boiseschools.org
Topic: 439 Message: 453

With black olives, please.
;)

Paul
> Hi Paul,
> Ok .... that's one large canadian bacon pizza, right? :={}
> Mike
>
> paul.verhage@... wrote:
> >
> > > For GPSL attendees: any dietary preferences or restrictions for lunch?
> >
> > My only restrictions is that the food taste good and there be plenty
> > of it.
> > ;)
> >
> > Paul
> >
> >
> > To unsubscribe from this group, send an email to:
> > GPSL-unsubscribe@yahoogroups.com
> >
> >
> >
> > Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
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> Mike Manes manes@... Tel: 303-979-4899
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>

454. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-26 20:42:38 UTC
From: paul.verhage@boiseschools.org
Topic: 424 Message: 454

> Let Bill know which fill tube diameter needed for a 1200 gm Kaysam,
> in case Merle missed my earlier embedded request replying to Bill's
> email.

I use a 1.25" PVC pipe, which I believe is 1.5" OD.

> Thanks for getting the weight down! Assuming the worst-case (700 gm)
> balloonsat weight, here's the 'sat allocation per flight string:

Not a problem. I didn't realize we were carrying payload.

> EOSS (EOSS-67A): 8.0 lb, 5 sats
> ANSR (EOSS-67B): 7.5 lb, 4 sats
> Mt State (EOSS-67C): 8.0 lb, 5 sats
> TVNSP-A (EOSS-67D): 7.0 lb, 4 sats
> TVNSP-B (EOSS-67E): 7.0 lb, 4 sats.
> Total: 37.5 lb, 22 @ 700 gm sats.
> (The EOSS-67 stuff is for FAA "side number" reporting purposes only)

For TVNSP, this will be flight TV03E1 and TV03E2 (not that it's
important).

Paul

455. Re: [GPSL] GPSL Launches

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-26 20:43:55 UTC
From: paul.verhage@boiseschools.org
Topic: 424 Message: 455

> Hi Paul,
>
> A bit of a letdown from the 6 we did last year - guess Denver is just
> too far off the beaten path to attract that many balloon groups :={.
> How's the NWSL coming along?

I think it's great. We were lucky with GPSL 2002. Let's see if we
can make GPSL 2004 even bigger.

NWSL will have two balloons and is scheduled for next Saturday.

Paul

456. Re: [GPSL] Re: CU SGC Workshop / GPSL 2003 Flight 14 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-26 20:57:52 UTC
From: paul.verhage@boiseschools.org
Topic: 416 Message: 456

Bill, TVNSP may be able to provide a tracker. Do you have a GPS?

Paul

> Hi Bill,
>
> I know what a pain it is having to share the spectrum and stratosphere
> with all these other folks. It's like herding cats from this end!
> But unless we all wanna carry up FAA Mode-3 transponders (7lb + batts,
> 1 KW PEP pulse emissions at 1 GHz + kilobucks ....), this is the only
> reasonable alternative I can come up with.
>
> The Kenwood D7 can be configured for time-slotting - a number of other
> groups use 'em as well. Only thing I don't like is that >B0-o-O-gus<
> Mic-key cryptic APRS format! Fortunately, findu.com and wxqa.com
> capiche Mic-key.
>
> Recommend you or one of yer team spend an hour with the D7 manual and
> a glass of vintage Chateau Bayonne to discover the secrets ensconced in
> Japlish :=}. Altho a secondary beacon would be desirable, it does
> deduct from the balloonsat payload budget; I think Mark Caviezel of
> ES-OS may have one for loan - he's on this reflector.
>
> Let me know how you fare, and have a good Memorial Day.
>
> 73 de Mike W5VSI
>
> Bill Hiscock wrote:
> >
> > Mike:
> >
> > Thanks for the details of how EOSS is working with Denver Center and
> > Tracon, that helps me (and our crew) understand why we can't simply use
> > different frequencies as we did last year.
> >
> > Our taking over responsibility for our balloon with ATC is, in my
> > opinion, out of the question. As you've noted, this is some of the
> > busiest airspace in the country, and there is NO way I'd want to fly
> > there without the history, connections, and procedures EOSS has
> > developed with ATC.
> >
> > I see two ways we can try to go:
> >
> > (1) Last year, we flew a secondary EOSS beacon on our stack. Is it
> > possible there might be an EOSS APRS beacon we could fly that would

> > handle the time-slotted reporting necessary for ATC? This would leaving
> > our beacon free on another frequency to send more frequent packets --
> > but the important point is that it would eliminate the need for our team
> > to learn how to handle the time slotting (perhaps this is a simple
> > matter, I just don't know).
> >
> > (2) If EOSS cannot provide a secondary beacon we could fly, then I think
> > we just have to step up and learn how to handle the time slotting
> > requirement. I'll have our crew start looking into this in any case. Our
> > hardware is quite simple -- a Garmin GPS hooked into a Kenwood TH-D7.
> >
> > Whatever additional information you can provide is very welcome and
> > appreciated.
> >
> > I suspect Chris and I will be joining you for dinner on Thursday night,
> > along with Sean Kirn, our MT Flight Director (grad student in EE), to
> > make sure we've got all the details worked out for Saturday morning.
> >
> > Thanks for the invitation to the GPSL event at CU Friday, and I wish I
> > could attend, but our ballooning team will be busy Friday with the
> > workshop participants, so I'm afraid we'll miss it.
> >
> > Again, thanks Mike, and I'm sure we'll get this worked out. Looking
> > forward to the workshop and GPSL.
> >
> > Bill
> >
> > Mike Manes wrote:
> > >
> > > Hi Bill,
> > >
> > > My apologies for any unintended snub regarding the title of the
> > > workshop -- I think I generally refer to it as the CU SGG BalloonSat
> > > Workshop, at least when introducing the event.
> > >
> > > And as you may have learned, the 2003 Great Plains Super Launch (GPSL)
> > > is being hosted by EOSS this year and will be held inconjunction with
> > > the Workshop. GPSL attendees will be meeting all day Fri 13 June
> > > at CU, courtesy Chris Koehler. We plan to meet for dinner at the
> > > Souper Salad Thursday evening, any you and Chris are more than welcome
> > > to join us - I think we can work out any last minute hitches then. And
> > > you or another of the Mt State team is welcome to the GPSL conference as
> > > well. See http://gpsl.eoss.org for all the details.
> > >
> > > Regarding the APRS beaconing: EOSS has committed to provide FAA Denver
> > > Center and DIA Tracon controllers with enroute position reports as per
> > > last year. But since that time, some of our group have developed
> > > a web-based APRS reporting system using findu.com processes. This
> > > scheme provides FAA controllers with VOR radial and range with altitude
> > > reports with 60-sec updates. We've used it on the last 3 EOSS flights,

> > > and the FAA have taken a strong liking to it. And it saves us a bunch
> > > of cell phome roaming fees as well. This system relies entirely upon
> > > certain cooperating Denver-area ham stations to serve as gateways
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> > > Desk at 303-651-4252. Let them know your cell phone number. Reverse
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> > > > KD7MFJ-11
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> > > >
> > > > Bill
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> > > > P.S. I think Chris may have already mentioned this idea, but I think it
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> > > > **********
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> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
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> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

457. Re: [KNSP] NSTAR 03-C - June 14th?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-27 07:27:03 UTC
From: Mike Manes
Topic: 457 Message: 457

Hi Don,

ANSR plans on flying its crossband repeater during GPSL on 14 Jun.
Launch is set for 0900 MDST from Deer Trail CO, 50 mi E of Denver.

According to Mike KD7LMO:
Cross Band Repeater uplink 145.560MHz / PL 162.2, downlink 445.525 MHz.

The rest of the balloons will be beaconing APRS on 445.975 and
144.34 MHz with -11 SSIDs.

73 de Mike W5VSI

Don Pfister wrote:
>
> KNSP@yahoogroups.com wrote:
>
> > Message: 1
> > Date: Thu, 22 May 2003 22:00:55 -0500
> > From: "Mark Conner" <n9xtn@...>
> > Subject: NSTAR 03-C - June 14th?
> >
> > For the local NSTAR chasers - can you participate on June 14th?
> > I'm not sure how much interaction we'll have with the GPSL crowd
> > RF-wise, but at least we can go up at the same time.
> >
> > Also, we may try out the simplex repeater again for this flight.
> > Hopefully we can get all the various gremlins that have been
> > plaguing our secondary payloads to go away this time.
> >
> > 73 de Mark N9XTN
>
> Looks like I MIGHT start a new job on June 02, 2003. If this is the case, we
> might be able to launch something on the 14th too, here locally.
>
> I'll keep everyone posted on possible upcoming flight(s).
>
> Mark - Zack - do we need to coordinate any frequencies or bands if we fly at the
> same time? I haven't kept up with the plans. Mike has asked me if we would be
> doing something local for the GPSL. As stated above it might be possible but
> still undecided at this point.
>
> Don Pfister KA0JLF
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

458. Re: [GPSL] GPSL and 2m

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-27 09:56:21 UTC
From: Mike Manes
Topic: 437 Message: 458

Hi Mark,

According to Mike KD7LMO:
Cross Band Repeater uplink 145.560MHz / PL 162.2, downlink 445.525 MHz.

The rest of the balloons will be beaconing APRS on 445.975 and
144.34 MHz with -11 SSIDs.

73 de Mike W5VSI

Mark Conner wrote:
>
> Hi all,
>
> I'm hoping to fly June 14th from the Omaha area, at the same time
> the large group is flying in Colorado. Will anyone out there be
> sending packet data on 2 meters? Perhaps one of the payloads
> could transmit via NSTAR and we'd see if we could get it
> digipeated this way. It wouldn't be a 2-way path, but at least
> we'd get BBE out of the deal.
>
> Also, if someone were doing crossband voice to 70cm out, we could
> put our simplex repeater on the output and maybe pick that up
> too.
>
> 73 de Mark N9XTN
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

459. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-27 15:28:42 UTC
From: Mike Manes
Topic: 424 Message: 459

Hi Chris,

Thanks! This is shaping up to be quite an event! Hope I can keep
all the plates in the air in the meantime.

Do you have any better idea of how many Balloonsats we should expect
and how much they will weigh?

Not sure about the other GPSL attendees, but I think I may be busy
cutting ZZZZs Saturday evening. However, I expect that lunch on
Saturday will be at a suitable eastern CO greasy spoon near the
recovery site; I think you're familiar with that process :=}.

Is there any special provision required to connect a laptop to the
projection monitor in the Eaton Conf Rm?

Mike

Chris Koehler wrote:
>
> Working on the map. I looked at the website and I will try to provide
> one that fits with what is on there.
>
> The room is the Eaton Conference room.
>
> I also asked Rick to add the Saturday evening pizza banquet to the
> events page. Everyone is welcome to attend.
>
> Chris Koehler
> Deputy Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750
> spacegrant.colorado.edu
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

460. Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-28 13:19:26 UTC
From: Ralph Wallio, W0RPK
Topic: 460 Message: 460

A suggestion folks.

If Mark/NSTAR and/or others are going to coordinate flights with GPSL for purposes of EBBE, et al., then we could consider including them in the GPSL2003 balloon count.

Another balloon for the count:

From the ES-OS e-mail list:

Gang:
heyyyyyyyyyyy, wow have been doing a ton of
non-balloon related stuff in recent times.
Anyway, a plan has been hatched....
126,000 cubic foot balloon to be built and flown at
GPSL on June 14 2003 out of Deer Trail, CO. It
should take 10 lbs payload to 120k feet.
Stay tuned here for updates and official flight
announcement. As usual, interested volunteers are
welcome to help preflight/day of flight.

- KMC

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

461. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-29 01:00:11 UTC
From: Mike Manes
Topic: 460 Message: 461

Hi Ralph,

Yeah -- I guess that'd make 7 -- but who's counting? :=}

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> A suggestion folks.
>
> If Mark/NSTAR and/or others are going to coordinate flights with GPSL for
> purposes of EBBE, et al., then we could consider including them in the
> GPSL2003 balloon count.
>
> Another balloon for the count:
>
> ------------------------
> >From the ES-OS e-mail list:
>
> Gang:
> heyyyyyyyyyyy, wow have been doing a ton of
> non-balloon related stuff in recent times.
> Anyway, a plan has been hatched....
> 126,000 cubic foot balloon to be built and flown at
> GPSL on June 14 2003 out of Deer Trail, CO. It
> should take 10 lbs payload to 120k feet.
> Stay tuned here for updates and official flight
> announcement. As usual, interested volunteers are
> welcome to help preflight/day of flight.
>
> - KMC
> ------------------------
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

462. Re: [GPSL] GPSL A/V & i'net?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-29 01:14:27 UTC
From: Mike Manes
Topic: 424 Message: 462

Hi Chris,

Thanks for paring the weight down. Depending on how the pieces tote
up per flight string, it looks like we can carry upwards of 28 @ 600 gm
balloonsats. How's the Workshop team count looking so far?

OK on the video projector. My laptop does have an external SVGA jack,
but I don't have a cable.

Hope to see you at the HamCon in Estes Park this Saturday.

Mike

Chris Koehler wrote:
>
> Weight looks very close to 600 grams.
>
> No special requirements on the laptop to project as long as the laptop
> has a monitor out connection.
>
> Talk to you soon.
>
> Chris Koehler
> Deputy Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750
> spacegrant.colorado.edu
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Tuesday, May 27, 2003 9:29 AM
> To: Chris Koehler
> Cc: GPSL Reflector
> Subject: Re: [GPSL] GPSL A/V & i'net?
>
> Hi Chris,
>
> Thanks! This is shaping up to be quite an event! Hope I can keep
> all the plates in the air in the meantime.
>
> Do you have any better idea of how many Balloonsats we should expect
> and how much they will weigh?
>
> Not sure about the other GPSL attendees, but I think I may be busy
> cutting ZZZZs Saturday evening. However, I expect that lunch on

> Saturday will be at a suitable eastern CO greasy spoon near the
> recovery site; I think you're familiar with that process :=}.
>
> Is there any special provision required to connect a laptop to the
> projection monitor in the Eaton Conf Rm?
>
> Mike
>
> Chris Koehler wrote:
> >
> > Working on the map. I looked at the website and I will try to provide
> > one that fits with what is on there.
> >
> > The room is the Eaton Conference room.
> >
> > I also asked Rick to add the Saturday evening pizza banquet to the
> > events page. Everyone is welcome to attend.
> >
> > Chris Koehler
> > Deputy Director
> > Colorado Space Grant Consortium
> > University of Colorado at Boulder
> > 303-492-4750
> > spacegrant.colorado.edu
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

463. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-30 00:27:53 UTC
From: Don Pfister
Topic: 460 Message: 463

Mike Manes wrote:

> Hi Ralph,
>
> Yeah -- I guess that'd make 7 -- but who's counting? :=}
>
> 73 de Mike W5VSI
>
> "Ralph Wallio, W0RPK" wrote:
> >
> > A suggestion folks.
> >
> > If Mark/NSTAR and/or others are going to coordinate flights with GPSL for
> > purposes of EBBE, et al., then we could consider including them in the
> > GPSL2003 balloon count.

I found out today, I do start the training class Monday.

It is yet unknown if we can have a balloon ready by the 14th but I don't see why not. We will work with that aim in mind. I'll check with the group and see who/what is available.

I'll keep you posted. It may be next weekend (first weekend in June) before I know for sure.

Don

--

[Signature File]
Name=Don Pfister KA0JLF
HABITAT SkyLab

464. NSTAR 03-C flight announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2003-05-31 03:29:32 UTC
From: Mark Conner
Topic: 464 Message: 464

Nebraska Stratospheric Amateur Radio (NSTAR) Flight 03-C is scheduled for Saturday, June 14th from our usual launch site near Treynor, Iowa. This flight will be about the same time as the multi-balloon Great Plains Super Launch being held in Colorado that morning. I have a 1200g balloon which should get us to just under 100,000 ft.

Launch time is still TBD. The Colorado balloons are scheduled to fly at 1500 UTC, which is 1000 CDT. We may not be able to wait that late in the morning. One possibility is to be ready for a 0800 CDT (1300 UTC) launch, then hold if the winds permit. I don't think we can launch earlier than 1400 UTC and have a decent shot at having mutual visibility between NSTAR and the GPSL balloons.

Primary APRS will be on 144.340 with callsign N9XTN-11 and a digipeater alias of NSTAR. Backup APRS will be on the national 144.390 frequency with callsign N9XTN-12. Simplex repeater will be on 446.300 MHz. The camcorder and still camera will also fly.

As launch approaches, day-to-day updates are posted to the KNSP list at http://groups.yahoo.com/group/KNSP . Also see the NSTAR web site at http://www.nstar.org for more information.

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

465. Re: [GPSL] NSTAR 03-C flight announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-01 23:41:44 UTC
From: paul.verhage@boiseschools.org
Topic: 464 Message: 465

Good luck, Mark. Sorry you can't make it to GPSL this year.

Paul

> Nebraska Stratospheric Amateur Radio (NSTAR) Flight 03-C is
> scheduled for Saturday, June 14th from our usual launch site near
> Treynor, Iowa. This flight will be about the same time as the
> multi-balloon Great Plains Super Launch being held in Colorado
> that morning. I have a 1200g balloon which should get us to just
> under 100,000 ft.
>
> Launch time is still TBD. The Colorado balloons are scheduled to
> fly at 1500 UTC, which is 1000 CDT. We may not be able to wait
> that late in the morning. One possibility is to be ready for a
> 0800 CDT (1300 UTC) launch, then hold if the winds permit. I
> don't think we can launch earlier than 1400 UTC and have a decent
> shot at having mutual visibility between NSTAR and the GPSL
> balloons.
>
> Primary APRS will be on 144.340 with callsign N9XTN-11 and a
> digipeater alias of NSTAR. Backup APRS will be on the national
> 144.390 frequency with callsign N9XTN-12. Simplex repeater will
> be on 446.300 MHz. The camcorder and still camera will also fly.
>
> As launch approaches, day-to-day updates are posted to the KNSP
> list at http://groups.yahoo.com/group/KNSP . Also see the NSTAR
> web site at http://www.nstar.org for more information.
>
> 73 de Mark N9XTN
> ------
> Mark D. Conner
> E-mail: n9xtn@...
> Homepage: http://members.cox.net/mconner1
> "Arrogance and stupidity, all in the same package.....how
> efficient of you!" - Ambassador Londo Mollari, Babylon 5
>
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>
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>
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>
>
> To unsubscribe from this group, send an email to:

> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

466. Frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-02 04:58:27 UTC
From: Rick von Glahn
Topic: 48 Message: 466

I've posted a frequency coordination page at:

http://gpsl.eoss.org/frequency_coordination.htm

I won't be doing the coordination. I'm just posting information you pass along. Resolve conflicts among yourselves :-)

Send me any frequencies you will be using so others can see were you are and possibly avoid conflicts.

73 -- Rick, NØKKZ

467. Re: [GPSL] Frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-02 21:35:45 UTC
From: Don Pfister
Topic: 48 Message: 467

Rick, the Black print on Blue is real hard read here (I can't on my monitor). ;-)

Rick von Glahn wrote:

> I've posted a frequency coordination page at:
>
> http://gpsl.eoss.org/frequency_coordination.htm
>
> I won't be doing the coordination. I'm just posting information you pass
> along. Resolve conflicts among yourselves :-)
>
> Send me any frequencies you will be using so others can see were you are
> and possibly avoid conflicts.
>
> 73 -- Rick, N?KKZ

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

468. IRLP Node

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-02 21:44:44 UTC
From: mgray@ess-us.com
Topic: 48 Message: 468

Is there an IRLP node in the Denver area that would be configured to work with a cross band repeater? I have a node ID/login we could use if someone didn't want to take their node off line.

THanks

469. Re: [GPSL] Frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-01 23:28:49 UTC
From: Mike Manes
Topic: 48 Message: 469

Hi Rick,

I >think< I have a pretty good summary of all the GPSL balloon
freqs in Big Chief format -- and now that HamCon 2003 is behind us,
I can focus more sharply on the details of GPSL.

I'll check the page before I go much farther, tho.

Tnx es 73 de Mike W5VSI

Rick von Glahn wrote:
>
> I've posted a frequency coordination page at:
>
> http://gpsl.eoss.org/frequency_coordination.htm
>
> I won't be doing the coordination. I'm just posting information you pass
> along. Resolve conflicts among yourselves :-)
>
> Send me any frequencies you will be using so others can see were you are
> and possibly avoid conflicts.
>
> 73 -- Rick, N?KKZ
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

470. [Fwd: [GPSL] IRLP Node]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-03 05:36:49 UTC
From: Mike Manes
Topic: 470 Message: 470

Hi Nate,

Wotcha think? Pls include Mike KD7LMO and me in your reply.

73 de Mike W5VSI

-------- Original Message --------
Subject: [GPSL] IRLP Node
Date: Mon, 2 Jun 2003 14:44:44 -0700 (MST)
From: mgray@...
Reply-To: GPSL@yahoogroups.com
To: GPSL@yahoogroups.com

Is there an IRLP node in the Denver area that would be configured to
work
with a cross band repeater? I have a node ID/login we could use if
someone didn't want to take their node off line.

THanks

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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http://docs.yahoo.com/info/terms/

471. Long-range forecast for June 14th

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-03 14:43:21 UTC
From: n9xtn@cox.net
Topic: 471 Message: 471

At this point, it looks pretty decent for launches in both the Omaha and Boulder areas. Some showers are possible along the Front Range, but I think they'll be mostly in the afternoon. No major surface or upper-air systems are forecast to pass through either area, and about 30-40 mile chases to the east can be expected.

In the Omaha area, we may have a setup where stronger surface winds will start later in the morning. If so, NSTAR may have to launch too far ahead of the GPSL flights to get good mutual visibility for digipeating between balloons.

Temps look to be above normal in Colorado, near or below normal in Omaha.

73 de Mark N9XTN

472. RE: [GPSL] Frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-03 19:56:30 UTC
From: Rick von Glahn
Topic: 48 Message: 472

OK, I'll change that right now.

Rick

-----Original Message-----
From: Don Pfister [mailto:ka0jlf@...]
Sent: Monday, June 02, 2003 2:36 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Frequency coordination

Rick, the Black print on Blue is real hard read here (I can't on my monitor). ;-)

473. Re: GPSL presentation media

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-04 22:56:12 UTC
From: Mike Manes
Topic: 473 Message: 473

Hi Ralph,

You understand correctly. CU has the projector and SVGA cable,and my IBM Thinkpad has a CD reader and full Office suite loaded. I can also plug in a 3" floppy in place of the CD. I think you're set to go!

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Mike,
>
> I want to make sure I understand what to expect so I bring the right ammo.
>
> As I understand it, you will provide a PC laptop and CU will provide a
> projector. This is important because I do not have a laptop to bring.
>
> I can burn all my required files on a CD if your laptop has a CD drive(?)
>
> Will your laptop have PowerPoint or should I also bring a copy of the
> freeware MS PP viewer?
>
> How about EXCEL?
>
> Thanks, Ralph W0RPK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

474. Re: FW: [GPSL] [Fwd: Restaurants]]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-04 19:52:14 UTC
From: Mike Manes
Topic: 474 Message: 474

Hi Ralph et al,

Let me know how many others to expect for GPSL -- gotta get an
estimated headcount for Fri banquet reservations. So far:

EOSS: VSI, GEH, TVJ, ANI, KKZ, OLS + ?
ANSR: 3
TVNSP: 1 + ?
Mt State: ?
Others: ELK, RPK + ?

Total: 12 + ?

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Chris and Mike,
>
> My thanks for your concern and support. Sharon needs to stay home but
> daughter Stephanie of KU in Lawrence will be traveling with me on this trip.
> She will help with logistics as necessary so I can be in the right places at
> the right times. Steph will have a good time shopping on the Pearl Street
> Mall during our discussions on Friday.
>
> Message traffic from North Dakota indicates they may be with us:
>
> Greetings.
>
> I hope everyone's summer is going well. I've been contacted by
> Jason Senti, who is taking over the _Zamboni_ cubesat project for the
> summer over in Electrical Engineering. He asked if we could do another
> flight of their satellite hardware in about three weeks. What are
> peoples schedules like for this time frame?
>
> Some things I know of: balloon conference in Boulder is June 13 -
> 15 (http://gpsl.eoss.org/). Mike, Ryan, and I will probably be there.
> The NDRA has a high-power rocket launch on June 21, which is a problem
> since several balloon group members are also rocket club members.
>
> ==
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> 701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
> http://blizzard.rwic.und.edu/~nordlie/
> ==

>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

475. Re: GPSL transport and catering?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-04 18:59:09 UTC
From: Mike Manes
Topic: 439 Message: 475

Hi Bernadette,

Thanks for the tips. I'm copying this to the GPSL attendees and
seek input on their preferences.

The Blackjack Pizza deal looks pretty good at the outset; please do
send me the ordering details.

For the GPSL group: should we consider bringing in some AM snackies?
This would involve a jelly-jar payment scheme, o'course.

Thanks, Mike

Bernadette Garcia wrote:
>
> Hi Mike.
>
> I do not know of box lunches available for $5/person. We often order
> pizza if we are having a casual, low-cost meeting. Blackjack Pizza has
> a special price for CU of $5.50 per large, one-topping pizza and they
> will deliver to campus. You can pay with a check. As with any pizza
> place, you can add cans of pop to your order. If you are interested in
> this meal, I can forward you ordering instructions!
>
> The other options are as follows:
>
> Half-Fast Subs Catering:
> They have 2-foot party subs that feed 6 - 7 people each. Each sub is
> $18.50
> They also have sides and beverages that can be added to your menu
> Call 303-449-0404 - they can fax you a complete catering menu and answer
> questions.
>
> University of Colorado Catering:
> Basic Boxed Lunch $6.25
> Includes sandwich, chips, whole fruit, cookie.
> Does not include beverage.
> A full menu and price list can be found at:
> http://umc.colorado.edu/catering/menu.html
> There is also a phone number if you have questions for them.
>
> Honeybaked Ham Catering:
> Five Star boxed lunch with beverage: $6.65
> Includes sandwich, side (chips, potato or pasta salad), cookies and
> beverage
> Call Brooke Padilla 303-940-7783. She can fax you a complete menu.

>
> I have others, but they start at $8/person.
>
> For breakfast, we usually use Univ. of CO catering. They have a
> breakfast menus on their website as well. Their price lists are
> separate from their menus. If you have trouble with the website, they
> are usually pretty helpful if you call them. The other thing we do with
> breakfast, is to buy bagels or doughnuts from Moe's Bagels and/or
> Safeway and cater ourselves.
>
> Please let me know if you need further info.
>
> B

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

476. GPSL attendance scrubbed

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-05 10:14:11 UTC
From: Ralph Wallio, W0RPK
Topic: 476 Message: 476

Mike and everyone attending GPSL2003,

The conflict that scrubbed our family vacation in conjunction with attending GPSL2003 has now made it unreasonable for me to be with you folks next week. Sharon has a huge project underway requiring long days and long weeks at work with staff and consultants. Yesterday she made plans that call for a peak in work load late next week. This is all very tiring so I need to be here to make sure she doesn't have to worry about anything but project demands.

I apologize for creating a hole in your speaker schedule. My PowerPoint presentation is complete save for small changes every time I go through it. If you do not have better use for the time, I would be happy to add audio remarks to the file and send a CD that can be played in my absence. The discussion starts with packet radio bit error rate, moves on to link budget analysis and ends with footprint predictions.

All of this can be reviewed in my web pages,
http://users.crosspaths.net/~wallio/ber.html then
http://users.crosspaths.net/~wallio/LINKbudg.html and finally
http://users.crosspaths.net/wallio/Radio%20Mobile.html. I will share my EXCEL and Radio Mobile files with anyone interested in learning more.

I will forward your Friday banquet head count request to John Nordlie at UND and ask him to respond directly to you.

Regards to all,

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

477. Re: [GPSL] Re: GPSL transport and catering?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-05 14:11:10 UTC
From: paul.verhage@boiseschools.org
Topic: 439 Message: 477

> For the GPSL group: should we consider bringing in some AM snackies?
> This would involve a jelly-jar payment scheme, o'course.

Sounds like a good idea to me.

Paul "where's the food?" Verhage

478. Re: GPSL head count

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-05 23:59:44 UTC
From: Mike Manes
Topic: 478 Message: 478

Hi Ralph and John,

Doggone! Sorry you were forced to change plans. Be assured that you will be sorely missed! I know that a bunch of folks were looking forward to meeting you.

We'd still like to see the product of all the work you've put in to your presentation on packet radio range, however, so if it's not too much trouble, please shoot me a CD to:

Mike Manes W5VSI
6002 W. Alder Ave
Littleton CO 80128-6037
Tel 303-979-4899

For John: Glad to have you and your students come aboard. Hope you find out what ticks with all these balloontics! BTW, you may know GPSL is being held in conjuction with the NASA Space Grant BalloonSat Workshop being hosted by CU. From what I can find, U. ND has not yet attended this forum, but you might wish to touch base with a fellow from SD Mines who will be here this year:

Larry Stetler, SD School of Mines & Technology
lstetler@...

Best regards,
Mike Manes W5VSI, EOSS

John C Nordlie wrote:
>
> Hi Ralph.
>
> Sorry to hear you won't be there! It would have been cool to
> compare notes.
>
> I am bringing two student members of our group along, and all
> three of us plan on attending the banquet and conference, plus the
> launch.
>
> ==
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> 701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
> http://blizzard.rwic.und.edu/~nordlie/
> ==
>
> On Thu, 5 Jun 2003, Ralph Wallio, W0RPK wrote:

>
> > John,
> >
> > Mike Manes, W5VSI and EOSS President, is making final plans for GPSL2003 in
> > Boulder. He is counting attendees for meals, et al., including the Friday
> > evening banquet. Please advise Mike of your intention to attend any portion
> > of this gathering in conjunction with your participation in the Colorado
> > Space Grant workshop.
> >
> > Regardless of our recent e-mail discussion, my plans have taken an
> > unexpected bounce and I will not be there.
> >
> > TNX es 73 de Ralph Wallio, W0RPK
> > wallio@...
> > http://users.crosspaths.net/wallio/
> > Hubbert's Peak - The Mother of all Perfect Storms
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

479. Predictions started

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-06 14:40:51 UTC
From: Rick von Glahn
Topic: 479 Message: 479

The flight predictions for Saturday, June 14, 2003 are now being posted.

I'm posting for the EOSS payload configuration but these predictions
should be ok as a guide for all balloon flights on that day. Naturally,
each group will want to tailor the flight parameters for their systems.

http://www.eoss.org/flight/prediction.htm

73 -- Rick, NØKKZ

480. EOSS-67 A-F HiBal Notice

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-06 18:25:33 UTC
From: Mike Manes
Topic: 480 Message: 480
Attachments: 1 described; binary payloads are missing from this source WARC

Subject notice is attached as a Word97 .doc file. It has been faxed separately. Please call if there are any questions.

Regards, Mike Manes, EOSS

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

481. Long-range forecast for 14th

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-06 20:33:16 UTC
From: n9xtn@cox.net
Topic: 481 Message: 481

The forecast for next weekend isn't quite as nice as it looked earlier in the week. The last three runs of the GFS model indicate unsettled weather through the central US from Thursday to Sunday. A series of weak disturbances will cross from California to the Ohio River valley triggering occasional showers and thunderstorms through the period.

Saying we will or won't have rain Saturday morning is a tough call eight days out, but the chances are greater than normal. The showers should be isolated, so it may be possible to wait it out that morning. Sunday doesn't look any better or worse.

With such a weak pattern, the winds at the surface and aloft should be light when outside the influence of nearby storms. Eyeballing this morning's GFS soundings for both sites shows short chases for both groups.

73 de Mark N9XTN

482. GPSL conference internet access

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-07 01:01:25 UTC
From: Mike Manes
Topic: 482 Message: 482

Hi Chris,

Great! I have a 10/100BaseT NIC with RJ-45 on my laptop. This will
also be very handy for getting the latest trajectory forecast for
Saturday.

Is there any trick required to access your network i'net port?

BTW, what's the latest re balloonsat count? I assume we're still
looking at 600 gm each?

And have you got directions to the GPSL meeting room yet?

Best regards, Mike

Chris Koehler wrote:
>
> The room does not have speaker box capabilities but we can get internet
> hooked up. Your lap top will need a network port.
>
> Chris Koehler
> Deputy Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750
> spacegrant.colorado.edu
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

483. EOSS attendees for GPSL Conference, Fri 13 June?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-07 01:15:05 UTC
From: Mike Manes
Topic: 483 Message: 483

Hi,

I need a pretty accurate count of how many EOSS folks intend to participate in the GPSL Conference in Boulder next Fri 6/13, 0900 - 1600. And I also need to know how many EOSSians plan to join us at the GPSL banquet at Turley's in Boulder at 5 PM that evening so I can make reservations.

So please let me know ASAP each of your plans re:
Conference?
Banquet?

You can get details on the EOSS web site, but in a nutshell, there's no charge for the conference, but on-campus parking will be hard to find, so pooling is recommended. And morning snacks, pizza lunch and the banquet will be at your own expense.

And don't forget that the T&R net for EOSS-67 will be held at >> 7 PM << rather than 8 that evening on the 147.225 machine. Launch of 6 ballons will be from Deer Trail at 0900 the next morning, Sat 6/14.

Hope to see you there!

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

484. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-08 15:12:26 UTC
From: Don Pfister
Topic: 460 Message: 484

Don Pfister wrote:

> I'll keep you posted. It may be next weekend (first weekend in June) before I
> know for sure.
>
> Don
>
> HABITAT SkyLab

Ok, it is official, we won't be able to participate next weekend. I hate to miss GPSL but it is unavoidable.

I will try to monitor as best I can. Is there going to be an EBBE attempt? I might be able to hit that while mobile.

Good fortune to those that fly! We will be thinking about all in participation.

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF*

485. Ramada Inn name change

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-08 19:12:34 UTC
From: Rick von Glahn
Topic: 485 Message: 485

For those of you who made reservations at the Ramada Inn at Boulder, that hotel has undergone a name change. It is now the Boulder Outlook Hotel and Suites. I meandered up there yesterday to check it out and discovered this change.

I photographed the Hotel from the most likely driving approach for your assistance in not seeing a familiar Ramada signpost. For more info see:

http://gpsl.eoss.org/accomodations.htm

73 -- Rick, NØKKZ

486. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-08 20:03:43 UTC
From: Mark Conner
Topic: 460 Message: 486

NSTAR will have a digipeater on 144.34 with alias NSTAR. If any of the Colorado balloons flying a 144.34 MHz APRS payload would like to attempt a digipeat through us, let me know. This won't be a 2-way QSO record, but simply to see if data can be passed from one balloon to another over a distance of a few hundred miles.

We have a somewhat peculiar wind profile forecast for next Saturday. The NSTAR forecast track is to the northwest about 15 miles, which is OK for us but not by much.

73 de Mark N9XTN

----- Original Message -----
From: "Don Pfister" <ka0jlf@...>
To: <GPSL@yahoogroups.com>
Sent: Sunday, June 08, 2003 10:12
Subject: Re: [GPSL] Counting balloons

>
> I will try to monitor as best I can. Is there going to be an EBBE attempt? I might
> be able to hit that while mobile.
>

487. Re: [GPSL] Ramada Inn name change

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 05:02:02 UTC
From: Mike Manes
Topic: 485 Message: 487

Hi Rick,

Hey, thanks for that tip! I looked for the Ramada enroute to HamCon last week and never saw it. You get the Gold Star for that piece of recon!

73 de Mike W5VSI

Rick von Glahn wrote:
>
> For those of you who made reservations at the Ramada Inn at Boulder,
> that hotel has undergone a name change. It is now the Boulder Outlook
> Hotel and Suites. I meandered up there yesterday to check it out and
> discovered this change.
>
> I photographed the Hotel from the most likely driving approach for your
> assistance in not seeing a familiar Ramada signpost. For more info see:
>
> http://gpsl.eoss.org/accomodations.htm
>
> 73 -- Rick, N?KKZ
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

488. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 05:10:43 UTC
From: Mike Manes
Topic: 460 Message: 488

Hi Mark,

I'll put the Big APRS as W5VSI-11/digi EOSS/node BALNOD on 144.34.
The EOSS launch site will be W5VSI-1, and if things go smoothly
after launch, I'll be available for a shot at EBBE.

That forecast is totally bad news for GPSL outta Deer Trail - puts
us right smack into DIA Class B airspace and possibly even inside
the airport perimeter! Hope our local winds don't do that to us!
We gotta go east, even just a bit, for this one.

For DOn: hope you can participate vicariouly. GL!

73 de Mike W5VSI

Mark Conner wrote:
>
> NSTAR will have a digipeater on 144.34 with alias NSTAR. If any
> of the Colorado balloons flying a 144.34 MHz APRS payload would
> like to attempt a digipeat through us, let me know. This won't
> be a 2-way QSO record, but simply to see if data can be passed
> from one balloon to another over a distance of a few hundred
> miles.
>
> We have a somewhat peculiar wind profile forecast for next
> Saturday. The NSTAR forecast track is to the northwest about 15
> miles, which is OK for us but not by much.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Don Pfister" <ka0jlf@...>
> To: <GPSL@yahoogroups.com>
> Sent: Sunday, June 08, 2003 10:12
> Subject: Re: [GPSL] Counting balloons
>
> >
> > I will try to monitor as best I can. Is there going to be an
> EBBE attempt? I might
> > be able to hit that while mobile.
> >
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>

>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

489. Fw: [Solar-Raycing] Re: Lithium Ion / Ion Polymer Battery fires

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 16:10:30 UTC
From: Ralph Wallio, W0RPK
Topic: 489 Message: 489

Forwarded from Solar-Raycing e-mail list. -w0rpk

----- Original Message -----
From: "David A. Klapp" <klappda@...>
To: <Solar-Raycing@yahoogroups.com>
Sent: Sunday, June 08, 2003 10:48 PM
Subject: [Solar-Raycing] Re: Lithium Ion / Ion Polymer Battery fires

> Id like to through my own two cents in about liIon fires, having witnessed
> one first hand. I think many people may be getting a misconception here.
> Unless you have a liquid or gelcell type LiIon i would not worry about
> Lithium metals at all. In a dry cell or polymer type battery the Lithium
> is typically locked in some other compound, aka a ceramic powder usually.
> This doesn't present much of a lithium issue because you wont obtain the
> necessary heat to release it.
> What you do need to worry is three fold.
>
> First you need to worry about the other materials in these batteries. All
> of these batteries contain plastics of one type or another. This is the
> material the burns and this is the stuff you do not want to breathe. Ask
> any firefighter and he will tell you that you can die in a fire simply
> from breathing the smoke from a small toothbrush.
>
> Second thing you need to do is fight the heat. When the fire i witnessed
> was finally put out the battery box had been filled with water. But the
> SCARY part was standing there looking at this batter box literally boiling
> off about 30 gallons of water. The only way to put one of these fires out
> is to cool the cells back down below that thermal runaway point, and water
> doesn't cut it. After water in the box had boiled off the firemen used CO2
> extinguishers to get the pack temp down. This finally brought the pack
> back into a safe state.
>
> Third you do not want to used an extinguisher with an electrically
> conductive substance in it. This will only make the situation worse. If
> you have a shorted cell that started the fire thats bad enough but you
> absolutely do not want to make rest of the pack into one. The heat from
> these batteries comes from inside. Its not from burning materials on the
> exterior. Soo again dont short the pack just to put out the flames for
> this is the secondary concern.
>
> Heres what every team should look for. A COLD DRY type of extinguisher
> that has no electrically conductive medium in it. Nitrogen or CO2. You
> must basically freeze the pack to stop the fire. Also note that no
> extinguisher that you can carry in this car will be large enough to put
> the fire out alone. The small extinguisher that you carry will be used for

> only one reason, to get the driver out alive. All these teams should carry
> and identical Large (the industrial type) extinguisher in a close support
> vehicle. If you have the budget get 2.
>
> Just typing this email brings this fire back to mind. If anyone has any
> questions about what happened or how it was extinguished please feel free
> to email me directly at klappda@.... I would not want to see
> anyone get killed in this type of fire. Please be careful with these cells
> for they are still in infancy and need time to mature. Check to make sure
> all battery connections are tight and also check whatever temp sensing you
> have on this pack as frequently as possible.
>
> Good luck everyone
> Safe Race
> Dave Klapp
> Clarkson University
> Clarkson Solar Knights

490. Cell Phone?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 17:46:43 UTC
From: paul.verhage@boiseschools.org
Topic: 460 Message: 490

Mike, can I get a cell phone number for someone at GPSL? I'll bring a cell phone with me and would like to know where to call if I run into a problem.

Thanks,
Paul

491. GPSL 2003 photos

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 17:33:00 UTC
From: Mark Conner
Topic: 491 Message: 491

A thought to keep in mind for the group.....

If you take film photos at the GPSL, consider getting them put on CD when you do your photofinishing. Many Wal-Mart 1-hr photo-finishing shops will make a CD for you for about $3.50 per roll. This will facilitate sharing photos on-line after the flights, and beats an afternoon of flatbed scanning. I've been very pleased with this service from them - nearly as good as my film scanner.

73 de Mark N9XTN

492. FW: Inquiry as balloon drags girl to death

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 19:20:13 UTC
From: n9xtn@cox.net
Topic: 492 Message: 492

It appears a moored helium balloon was used to give people rides, then a storm kicked up and the mooring lines caught a young girl and dragged her away (I don't think she was riding at the time).

I don't think I'd ever tie myself to such a thing even on a perfectly quiet day. Can you imagine what would happen if the mooring lines came undone while you were attached?

73 de Mark N9XTN

http://news.bbc.co.uk/2/hi/europe/2974342.stm

Inquiry as balloon drags girl to death

An investigation is under way into a freak accident in which a five-year-old girl was swept 40 miles to her death by a helium balloon in Germany.
The British youngster became entangled in the mooring ropes of the balloon as it was taken by high winds.

It was about to be used for fun rides at a British military show at Rheindalen, near Moenchengladbach in western Germany.

The body of the girl, whose father is a British serviceman, was found near the balloon's wreckage two hours later.

British military spokeswoman Lieutenant Colonel Helen Wildman said the plan was to lift people up and down with the balloon tethered to a rope on a hot, sunny day.

She told BBC Radio 5 Live: "The weather was very nice but suddenly it changed and it became extremely stormy.

"The balloon broke away from the rope and flew away.

"Unfortunately, the rope got tangled with a five-year-old girl and dragged her away with the balloon.

"She was lifted in the air."

Colonel Wildman said the sudden storm with "huge hail stones" created havoc, with six people injured including one who needed hospital treatment.

"Furniture was being whipped into the air and hurled across the showground and brand new cars on show were damaged.

"Then we saw the balloon lift off and within minutes the rain had stopped and the sun came out again. It was utter chaos for a couple of minutes."

Family 'devastated'

A search was immediately launched by German authorities and British military police.

"They began by searching the immediate local area around the showground and were extending it further when they received a call from the police in Hamminkeln, near Wesel, to say that they had discovered the balloon and the body of a young girl."
The child's body was discovered approximately 100 metres from the balloon.

An investigation into the accident is under way.

"The investigation will look at a number of issues including whether the correct safety procedures were followed.

"Having said that the weather was so freakish that I'm not sure if anything could have prevented it, but that is for the investigation to say," Colonel Wildman said.

The girl's parents, who were with her at the show, are being cared for by family liaison officers and were said to be "devastated".

Her father is a serving British soldier and her mother is German, Colonel Wildman said.

The rest of the military show, which had only been open for an hour and was to continue until Monday, was cancelled.

Published: 2003/06/09 17:47:12 GMT

© BBC MMIII

493. Uncertain track forecasts for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-09 21:21:04 UTC
From: n9xtn@cox.net
Topic: 493 Message: 493

The forecast situation for this weekend will make it tough for everyone to determine a proper launch site. At least two weak circulation centers over the Central Plains will cause light and variable winds, with the forecast track changing from one run to the next as the predicted location of these centers change (a small difference in the location changes the wind directions a lot). The chase should be short (15-20 miles) but the direction will vary a lot.

Reading some of the forecast discussions, it appears there is low confidence in the details of the models from about Thursday on. It is likely that a launch site will have to be selected at the last minute based on a Friday afternoon or evening forecast.

For NSTAR, I'm starting to look at alternate launch sites, as it's possible both my in-laws' farm west of Omaha and Scott Clark's place near Treynor may both be unsuitable. If the wind forecast is this uncertain, we may a launch site where we can fly 15-20 miles in any direction and be OK. Somewhere in the vicinity of Red Oak would be ideal - perhaps at a school or park in town.

73 de Mark N9XTN

494. Re: Hi from WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 06:41:41 UTC
From: Mike Manes
Topic: 419 Message: 494

Hi Bill,

Sorry you can't make it to GPSL in person - dang!

I'm clueless re Echolink, except to have played with it at another
ham's QTH. Do any of the GPSL attendees have the software to run on
my laptop, or your own over a 100BaseT NIC? If not, I think I can
"invoke" uSoft NetMeeting, 'tho I've never used it before -- any
local experts?

ANd Bill, my I'net here is dialup. I >think< Marty Griffin WA0GEH
(you met him at the '93 EOSS confernece and at GPSL '02 in KS) has
a hi-speed connection. He'd be the best shot for an upload -- lacking
that, Rick N0KKZ (also at both), who's our Webmeister and who has
a spearate dialup line.

My snailmail is:
6002 W. Alder Ave
Littleton CO 80128-6037
Tel 303-979-4899

I think that the best shot for an EBBE QSO will be on 144.34 packet
via balloon digis NSTAR and EOSS. The EOSS gound station will be
W5VSI-1.

WB8ELK@... wrote:
>
> Hi Mike,
>
> Unless a miracle happens, I can't find anything under $1500 for the trip.
> Sadly, I just can't take the time off of work now that they've bumped up our
> schedule to make the road trip as I had originally planned.....retirement sure
> sounds like a good idea !!!!
>
> So, as long as your internet connection works in the conference room, I'll
> be a "virtual reality" presenter. Do you have Echolink on your machine so I
> can talk to you all....or Netmeeting?.....I'm finishing up my PowerPoint
> presentation and will put it up on my website so you can download it by
> Wednesday....unless you can accept large files via email.
>
> Also, please send me a mailing address that I can mail you a videotape via
> Fed-X for my talk.
>
> I'm thinking about launching a balloon from here in Alabama at the same
> time you all do from Deer Trail....let me know the APRS packet settings I'll need
> to put in to try an EBBE from here via Mark's balloon to the EOSS balloon. My

> balloon will be able to see Mark's balloon above 65,000 or so....but Colorado
> is too far to make it directly from here. Mark...are you planning to also
> have your 446.3 MHz simplex repeater onboard or just APRS?
>
> 73s,
>
> - Bill WB8ELK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

495. Re: [GPSL] Cell Phone?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 06:52:28 UTC
From: Mike Manes
Topic: 460 Message: 495

Hi Paul,

I'll have mine at the launch site only: 303-885-5751. Might wanna get
Marty's if you need help in the field launch day. Do bring a radio
that can work the T&R 70 cm repeater.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Mike, can I get a cell phone number for someone at GPSL? I'll
> bring a cell phone with me and would like to know where to call if I
> run into a problem.
>
> Thanks,
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

496. Re: [GPSL] Echolink

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 16:30:36 UTC
From: wb8elk@aol.com
Topic: 496 Message: 496

Hi Mike,

If you go to the following website, you can download Echolink and I then can connect to you at the conference for a 2 way QSO for my talk, all you need is a microphone for your laptop....I'll also post my talk on my website in case the Power Point file has a problem. I'll have the powerpoint file uploaded by tomorrow night.

Echolink:
http://www.synergenics.com/el/

My talk:
http://www.wb8elk.com

73s de WB8ELK

Will anyone have an Echolink Link node listening on the simplex repeater frequency or one of the coordination frequencies during the flights there?

497. Re: GPSL Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 18:48:10 UTC
From: Mike Manes
Topic: 497 Message: 497

Hi Gerry,
Great! Note that we don't put the balloon beacons on the 144.39 backbone since they see an 800-mile diameter circle on the earth when at altitude. We will have beacons on 445.975, 144.340 and 145.600 MHz. Which of these can you I-gate?

BTW, check gpsl.eoss.org for further re GPSL details. The freq allocation page will be corrected later today.

73 de Mike W5VSI

> Gerry Singer wrote:
>
> Mike,
> I now have an APRS i-gate set up in Akron, CO. It is on 24/7. Hope
> this helps you guys out.
> Gerry
> kc0cat
>
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (http://www.grisoft.com).
> Version: 6.0.488 / Virus Database: 287 - Release Date: 6/5/03

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

498. Re: [EOSS] Re: [EOSS_Trackers] EOSS #67: Balloon Identifiers

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 18:56:34 UTC
From: Mike Manes
Topic: 498 Message: 498

It will be nice, but not essential, for the EOSS KD team to track
all 6 balloons, since ANSR, TVNSP, ES-OS and Mt State are taking
responsibility for their respective recoveries. So I'd urge the
EOSS team to focus mainly on EOSS-67A (W5VSI-11 on 144.34 and K0YUK-11
on 445.975 w/ DF on 147.555) until recovery is certain. Afterwards,
and of course if one of the other teams requests help, then of course,
do whatever's necessary to effect 100% recovery of all 6 payload
strings.

73 de Mike W5VSI

"K. Mark Caviezel" wrote:
>
> Marty:
> there are too many 'balls in the air' to have any one
> get it all at the same time. I suggest TDMA.... 5
> minutes listening to one.... five minutes listening to
> one freq, five minutes listening to another.....
>
> - KMC
>
>
>
> --- Marty Griffin <mgriffin@...> wrote:
> > Hi Jack,
> >
> > We use dual band radios to receive two bands. The
> > issue is when two freqs
> > are in the same band. We will work it out...
> > Thanks for the offer. Hope
> > to see you Friday...
> > -Marty
> >
> >
> > -----Original Message-----
> > From: Jack and Sue Crabtree [mailto:jscra@...]
> > Sent: Tuesday, June 10, 2003 6:59 AM
> > To: EOSS@yahoogroups.com
> > Subject: Re: [EOSS] Re: [EOSS_Trackers] EOSS #67:
> > Balloon Identifiers
> >
> >
> > We will digi our 445 MHz beacon to 144.34 if you
> > want us to.
> > ----- Original Message -----

> > From: "Mike Manes" <manes@...>
> > To: <EOSS_Trackers@yahoogroups.com>
> > Cc: "Gfrtech" <gfrtech@...>; "Geralyn Quintana"
> > <geoldoe@...>; "EOSS
> > Yahoo" <EOSS@yahoogroups.com>
> > Sent: Monday, June 09, 2003 23:47 PM
> > Subject: [EOSS] Re: [EOSS_Trackers] EOSS #67:
> > Balloon Identifiers
> >
> >
> > > Correction!
> > >
> > > These beacons will be spread out amongst 144.34,
> > 145.600 and 445.975
> > > MHz, since it wasn't possible to time-slot them
> > all. I'll get a
> > > final allocation for 'em all out tomorrow when I
> > figger it out!
> > >
> > > 73 de Mike W5VSI
> > >
> > > Marty Griffin wrote:
> > > >
> > > > Hi Everyone,
> > > >
> > > > I gleaned these from Russ' Web site. All of
> > these payloads should run
> > on
> > > > 144.34 MHz and the time slots are being
> > coordinated by Mike. So you can
> > > > load these into your APRS "Track" setup.
> > > >
> > > > KC0JHQ-11 EOSS67F
> > > > KD4STH-11 EOSS67D
> > > > KD4STH-9 EOSS67E
> > > > KD7LMO-11 EOSS67B
> > > > KD7MFJ-11 EOSS67C
> > > > W5VSI-11 EOSS67A
> > > >
> > > > Regards,
> > > >
> > > > Marty Griffin
> > > > Cento Systems
> > > > Voice: +1 (303) 470-7639
> > > > Email: mgriffin@...
> > > >
> > > > "Tell me and I might forget. Show me and I can
> > remember. Involve me
> > and I
> > > > will understand." - Confucius, 450 B.C.

> > > >
> > > >
> > > > To unsubscribe from this group, send an email
> > to:
> > > > EOSS_Trackers-unsubscribe@yahoogroups.com
> > > > >
> > > > >
> > > > >
> > > > Your use of Yahoo! Groups is subject to
> > http://docs.yahoo.com/info/terms/
> > > >
> > > > --
> > > Mike Manes manes@... Tel:
> > 303-979-4899
> > > "Things should be made as simple as possible, but
> > not more so." A.
> > > Einstein
> > > >
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>
> _____________________________________
> Do you Yahoo!?
> Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
> http://calendar.yahoo.com
>

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> To unsubscribe from this group, send an email to:
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

499. Re: [EOSS] Re: [EOSS_Trackers] EOSS #67: Balloon Identifiers

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 18:44:32 UTC
From: Mike Manes
Topic: 498 Message: 499

Hi Jack and Mike,

No -- putting your GGA on 445.975 at 20 sec past the GPS minute once
per minute should do nicely. We have most of our time-slotted beacons
on there now, and we have only a limited number of I-gate ground
stations
available, and the best that any one can do is to gate one 70cm
and on 2m freq at a time.

I understand that you will also have some heavier downlinks on 445.950
as well? Plus your crossband on 145.56 up / 445.525 down?

73 de Mike W5VSI

Jack and Sue Crabtree wrote:
>
> We will digi our 445 MHz beacon to 144.34 if you want us to.
> ----- Original Message -----
> From: "Mike Manes" <manes@...>
> To: <EOSS_Trackers@yahoogroups.com>
> Cc: "Gfrtech" <gfrtech@...>; "Geralyn Quintana" <geoldoe@...>; "EOSS
> Yahoo" <EOSS@yahoogroups.com>
> Sent: Monday, June 09, 2003 23:47 PM
> Subject: [EOSS] Re: [EOSS_Trackers] EOSS #67: Balloon Identifiers
>
> > Correction!
> >
> > These beacons will be spread out amongst 144.34, 145.600 and 445.975
> > MHz, since it wasn't possible to time-slot them all. I'll get a
> > final allocation for 'em all out tomorrow when I figger it out!
> >
> > 73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

500. GPSL APRS beacon assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 21:07:19 UTC
From: Mike Manes
Topic: 500 Message: 500

Hi All,

I've attached my best shot at assigning APRS beacons for all 6
balloons with the goal of ensuring I-gating thru findu.com to the
FAA controllers.

Let me know ASAP if you can't make these beacons happen.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

501. GPSL APRS beacon assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-10 21:12:41 UTC
From: Mike Manes
Topic: 500 Message: 501
Attachments: 1 described; binary payloads are missing from this source WARC

This time >with< the Word97 attachment! Mike

Hi All,

I've attached my best shot at assigning APRS beacons for all 6
balloons with the goal of ensuring I-gating thru findu.com to the
FAA controllers.

Let me know ASAP if you can't make these beacons happen.

73 de Mike W5VSI

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

502. Re: [GPSL] Re: [EOSS] Re: [EOSS_Trackers] EOSS #67: Balloon Identifiers

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-11 18:28:09 UTC
From: paul.verhage@boiseschools.org
Topic: 498 Message: 502

TVNSP will need help. We have only one tracker and two
capsules.

Paul

> It will be nice, but not essential, for the EOSS KD team to track
> all 6 balloons, since ANSR, TVNSP, ES-OS and Mt State are taking
> responsibility for their respective recoveries. So I'd urge the
> EOSS team to focus mainly on EOSS-67A (W5VSI-11 on 144.34 and K0YUK-11
> on 445.975 w/ DF on 147.555) until recovery is certain. Afterwards,
> and of course if one of the other teams requests help, then of course,
> do whatever's necessary to effect 100% recovery of all 6 payload
> strings.
>
> 73 de Mike W5VSI
>
> "K. Mark Caviezel" wrote:
> >
> > Marty:
> > there are too many 'balls in the air' to have any one
> > get it all at the same time. I suggest TDMA.... 5
> > minutes listening to one.... five minutes listening to
> > one freq, five minutes listening to another.....
> >
> > - KMC
> >
> >
> >
> > --- Marty Griffin <mgriffin@...> wrote:
> > > Hi Jack,
> > >
> > > We use dual band radios to receive two bands. The
> > > issue is when two freqs
> > > are in the same band. We will work it out...
> > > Thanks for the offer. Hope
> > > to see you Friday...
> > > -Marty
> > >
> > >
> > > -----Original Message-----
> > > From: Jack and Sue Crabtree [mailto:jscra@...]
> > > Sent: Tuesday, June 10, 2003 6:59 AM
> > > To: EOSS@yahoogroups.com
> > > Subject: Re: [EOSS] Re: [EOSS_Trackers] EOSS #67:

> > > Balloon Identifiers
> > >
> > >
> > > We will digi our 445 MHz beacon to 144.34 if you
> > > want us to.
> > > ----- Original Message -----
> > > From: "Mike Manes" <manes@...>
> > > To: <EOSS_Trackers@yahoogroups.com>
> > > Cc: "Gfrtech" <gfrtech@...>; "Geralyn Quintana"
> > > <geoldoe@...>; "EOSS
> > > Yahoo" <EOSS@yahoogroups.com>
> > > Sent: Monday, June 09, 2003 23:47 PM
> > > Subject: [EOSS] Re: [EOSS_Trackers] EOSS #67:
> > > Balloon Identifiers
> > >
> > >
> > > > Correction!
> > > >
> > > > These beacons will be spread out amongst 144.34,
> > > 145.600 and 445.975
> > > > MHz, since it wasn't possible to time-slot them
> > > all. I'll get a
> > > > final allocation for 'em all out tomorrow when I
> > > figger it out!
> > > >
> > > > 73 de Mike W5VSI
> > > >
> > > > Marty Griffin wrote:
> > > > >
> > > > > Hi Everyone,
> > > > >
> > > > > I gleaned these from Russ' Web site. All of
> > > these payloads should run
> > > on
> > > > > 144.34 MHz and the time slots are being
> > > coordinated by Mike. So you can
> > > > > load these into your APRS "Track" setup.
> > > > >
> > > > > KC0JHQ-11 EOSS67F
> > > > > KD4STH-11 EOSS67D
> > > > > KD4STH-9 EOSS67E
> > > > > KD7LMO-11 EOSS67B
> > > > > KD7MFJ-11 EOSS67C
> > > > > W5VSI-11 EOSS67A
> > > > >
> > > > > Regards,
> > > > >
> > > > > Marty Griffin
> > > > > Cento Systems
> > > > > Voice: +1 (303) 470-7639

> > > > > Email: mgriffin@...
> > > > >
> > > > > "Tell me and I might forget. Show me and I can
> > > remember. Involve me
> > > and I
> > > > > will understand." - Confucius, 450 B.C.
> > > > >
> > > > >
> > > > > To unsubscribe from this group, send an email
> > > to:
> > > > > EOSS_Trackers-unsubscribe@yahoogroups.com
> > > > >
> > > > >
> > > > >
> > > > > Your use of Yahoo! Groups is subject to
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> > > > Mike Manes manes@... Tel:
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> > _____
> > Do you Yahoo!?
> > Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
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> Mike Manes manes@... Tel: 303-979-4899
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> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

503. Re: GPSL head count

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-11 20:02:13 UTC
From: Mike Manes
Topic: 478 Message: 503

Hi Ralph and John,

Ralph: your CD has arrived & we'll show it during the afternoon session
Friday. Thanks!

John: We've got you plus one logged on for the conference and the
banquet. Note also that we will be having a dinner 7 briefing Thurs
6/12 at 7:00 PM at the SouperSalad, 2595 Canyon. - hope to see you
there!

73 de Mike W5VSI

John C Nordlie wrote:
>
> Hi Ralph.
>
> Sorry to hear you won't be there! It would have been cool to
> compare notes.
>
> I am bringing two student members of our group along, and all
> three of us plan on attending the banquet and conference, plus the
> launch.
>
> ===
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> 701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
> http://blizzard.rwic.und.edu/~nordlie/
> ===
>
> On Thu, 5 Jun 2003, Ralph Wallio, W0RPK wrote:
>
> > John,
> >
> > Mike Manes, W5VSI and EOSS President, is making final plans for GPSL2003 in
> > Boulder. He is counting attendees for meals, et al., including the Friday
> > evening banquet. Please advise Mike of your intention to attend any portion
> > of this gathering in conjunction with your participation in the Colorado
> > Space Grant workshop.
> >
> > Regardless of our recent e-mail discussion, my plans have taken an
> > unexpected bounce and I will not be there.
> >
> > TNX es 73 de Ralph Wallio, W0RPK
> > wallio@...
> > http://users.crosspaths.net/wallio/

> > Hubbert's Peak - The Mother of all Perfect Storms
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

504. GPSL Conference Agenda

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-11 22:07:13 UTC
From: Mike Manes
Topic: 504 Message: 504

Hi All,

For all all launch crews and those joining us from out of town, there will be dinner & briefing by Chris Koehler of CU at the SouperSalad, 2595 Canyon Blvd near the campus, on Thurs 12 June at 7:00 PM. We'll work out any last-minute hitches there.

So far, I have eleven folks planning to attend the Friday conference. Bill Brown and Ralph Wallio will also be attending virtually, thru electronic presence.

Here's the agenda for Friday:

0900 - Open the Eaton Conference Room in CU Eng'g; greet attendees. Donuts, bagels & coffee - courtesy EOSS/honor jar.
0945 - ANSR DVD showing
1000 - Mike Gray: ANSR Projects
1100 - Bill Brown: Rockoon Project, via PowerPoint & Echolink
1145 - Russ Chadwick: I-gating Balloon APRS beacons to FAA Controllers
1215 - Lunch: BlackJack Pizza delivery @ $5.50 per large, single + pop.
1300 - Paul Verhage: TVNSP Projects
1400 - Ralph Wallio: Balloon Radio Range analysis (PP w/ .wav narration)
1430 - Break
1500 - GPSL / EOSS-67 flight planning, forecasts, loose ends.

1700 - GPSL Banquet at Turley's, 2350 Arapahoe (entrees $8 - $15)

1900 - EOSS-67 Preflight Net, 147.225/107.2 Hz CRA rptr - linked to 145.460 in Boulder.

There are some last-minute changes to the beacon allocation published previously. I'll get out a final version when all the cats get herded.

73 de Mike W5VSI
EOSS / GPLS Coordinator
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

505. Re: GPSL APRS beacon assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-11 21:12:35 UTC
From: Mike Manes
Topic: 500 Message: 505

Hi Paul,

OK -- these are a TinyTrak2 and a TinyTrak3 on 2m only, right?
Then can you set both of them to beacon in the non-Mic-E (i.e.,
human-readable) formats? This way we can track you at the ground
station in case I-gating is lost.

Please put the TT3 on 144.34, time-slotted at 0:30 sec after the
minute, and the TT2 0n 145.600 slotted at 0:25 sec, both w/ 1 minute
beacon intervals. The .34 will be shared w/ VSI-11 @ 0:10 and MFJ-11
@ 0:15. MFJ is using a D7 which can be time slotted only on startup
and paced by its internal clock - it does have CD collison avoidance
however.

Re the 70 cm CW beacon: That's fine, but PLEASE don't put it on
445.975, 445.950 or 445.525 - these are already in use for APRS
downlinks and the ANSR crossband repeater.

BTW, when do you plan on arriving in the Booulder area and how
can we reach you once you're here? If you will have a cell phone,
could you pass the number on to me in case we lose contact in the
field?

I look forward to seeing you at the dinner & briefing at the
SouperSalad, 2595 Canyon Blvd, Boulder Thurs 6/12 at 7:00 PM.

73 de Mike

VERHAP@... wrote:
>
> Mike, both of my capsules will be transmitting on 2m. I'll place a
> CW beacon on one capsule that will operate at 440.
>
> Paul
>
> > This time >with< the Word97 attachment! Mike
> >
> > Hi All,
> >
> > I've attached my best shot at assigning APRS beacons for all 6
> > balloons with the goal of ensuring I-gating thru findu.com to the
> > FAA controllers.
> >
> > Let me know ASAP if you can't make these beacons happen.
> >
> > 73 de Mike W5VSI
> >

> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

506. Re: [GPSL] GPSL Conference Agenda

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 04:00:39 UTC
From: Don Pfister
Topic: 504 Message: 506

Mike, can others of us, that can't make it in person, also listen in on echolink or something?

Just a question, not worth any effort to think about it. ;-) I'm not familar with echolink. Not sure if it is like IRLP where more than one can connect and listen.

73
Don

Mike Manes wrote:

> Hi All,
>
> For all all launch crews and those joining us from out of town,
> there will be dinner & briefing by Chris Koehler of CU at the
> SouperSalad, 2595 Canyon Blvd near the campus, on Thurs 12 June at
> 7:00 PM. We'll work out any last-minute hitches there.
>
> So far, I have eleven folks planning to attend the Friday conference.
> Bill Brown and Ralph Wallio will also be attending virtually, thru
> electronic presence.
>
> Here's the agenda for Friday:
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> 1145 - Russ Chadwick: I-gating Balloon APRS beacons to FAA Controllers
> 1215 - Lunch: BlackJack Pizza delivery @ $5.50 per large, single + pop.
> 1300 - Paul Verhage: TVNSP Projects
> 1400 - Ralph Wallio: Balloon Radio Range analysis (PP w/ .wav narration)
> 1430 - Break
> 1500 - GPSL / EOSS-67 flight planning, forecasts, loose ends.
>
> 1700 - GPSL Banquet at Turley's, 2350 Arapahoe (entrees $8 - $15)
>
> 1900 - EOSS-67 Preflight Net, 147.225/107.2 Hz CRA rptr - linked to
> 145.460 in Boulder.
>
> There are some last-minute changes to the beacon allocation published
> previously. I'll get out a final version when all the cats get
> herded.
>
> 73 de Mike W5VSI

> EOSS / GPLS Coordinator
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>

--

[Signature File]
Name=Don Pfister KA0JLF

507. EOSS-67 launch schedule advanced to 0700 Sat

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 18:22:08 UTC
From: Mike Manes
Topic: 507 Message: 507

Hi All,

About 1020 this morning, I received a call from Mr. Greg Dyer, Mgr of Denver Center Airways & Procedures, insisting that ALL GPSL / CU SGC Workshop balloon payload be on the deck no later than 9:30 AM MDST due to expected heavy commercial air traffic after that time. This demand appeared to be non-negotiable.

After conferring with Chris Koehler of CU SpaceGrant College, we have agreed that the most acceptable alternative will be to comply with Mr. Dyer's request. Accordingly, we must plan to have all 6 balloons aloft from Deer Trail no later than 0700 (7AM) Saturday.

The SGC students plan on arriving at Deer Trail with all their payloads pre-strung at 6AM, but due to the complexity related to this multiple launch, it's important that we plan on arriving to set up at T-2:30, or 0430 (4:30AM). For those of us in the western burbs, plan on at least a 1-hour drive. I plan to hit the road in the >>E-van<< at 0300.

Sunrise Saturday is 0531, so plan on setting up in darkness! I will hope that we can get an OK to turn on the ballfield lights, but this may unnecessarily disturb the peace of Deer Trail citizens.

In order to allow for some sleep Friday night, I have decided to cancel the GPSL Banquet, previously set for 5:00 PM Friday. I will be back home by that time, and since EOSS is the host, I wouldn't be much of a banquet. Those staying Boulder may make their own plans. The prelaunch net remains set for 7:00 PM Friday on 147.225.

My apologies for this last-minute change. No good deed goes unpunished.

73 de Mike W5VSI, EOSS
GPSL Coordinator
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

508. Re: [EOSS] EOSS-67 launch schedule advanced to 0700 Sat

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 19:10:08 UTC
From: mgray@ess-us.com
Topic: 507 Message: 508

Isn't Deer Trail outside DEN Class B airspace, the Mode C 30 NM ring, and all payloads comply with FAR 101? Why is the FAA dictating launch schedule?

On Thu, 12 Jun 2003, Mike Manes wrote:

> Hi All,
>
> About 1020 this morning, I received a call from Mr. Greg Dyer, Mgr
> of Denver Center Airways & Procedures, insisting that ALL GPSL /
> CU SGC Workshop balloon payload be on the deck no later than 9:30 AM
> MDST due to expected heavy commercial air traffic after that time.
> This demand appeared to be non-negotiable.
>
> After conferring with Chris Koehler of CU SpaceGrant College, we have
> agreed that the most acceptable alternative will be to comply with
> Mr. Dyer's request. Accordingly, we must plan to have all 6 balloons
> aloft from Deer Trail no later than 0700 (7AM) Saturday.
>
> The SGC students plan on arriving at Deer Trail with all their payloads
> pre-strung at 6AM, but due to the complexity related to this multiple
> launch, it's important that we plan on arriving to set up at T-2:30, or
> 0430 (4:30AM). For those of us in the western burbs, plan on at least
> a 1-hour drive. I plan to hit the road in the >>E-van<< at 0300.
>
> Sunrise Saturday is 0531, so plan on setting up in darkness! I will
> hope that we can get an OK to turn on the ballfield lights, but this
> may unnecessarily disturb the peace of Deer Trail citizens.
>
> In order to allow for some sleep Friday night, I have decided to cancel
> the GPSL Banquet, previously set for 5:00 PM Friday. I will be back
> home by that time, and since EOSS is the host, I wouldn't be much of
> a banquet. Those staying Boulder may make their own plans. The
> prelaunch net remains set for 7:00 PM Friday on 147.225.
>
> My apologies for this last-minute change. No good deed goes unpunished.
>
> 73 de Mike W5VSI, EOSS
> GPSL Coordinator
>

509. Re: [GPSL] EOSS-67 launch schedule advanced to 0700 Sat

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 19:12:13 UTC
From: n9xtn@cox.net
Topic: 507 Message: 509

Mike,

NSTAR will adjust to match, and although this will mean a bit less sleep for us, going earlier should help us get calmer winds.

Since your launches must be not later than 0700 MDT, can we also assume a not-earlier-than time? We'd like to get as close as possible to your release time. If you set a hard window of 0630-0700 MDT (1230-1300 UTC), we can plan to release at 1245 UTC.

NSTAR will be filing its NOTAM early tomorrow afternoon.

73 de Mark N9XTN

510. Re: [KNSP] NSTAR status, 11 June

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 19:10:37 UTC
From: Mike Manes
Topic: 510 Message: 510

Mark,

EOSS-67 is launching at 0700 (1300Z) vice 0900 at Denver Center
request to be on deck before the 0930 rush around DIA.

Mike

Mark Conner wrote:
>
> The forecasts are still all over the place, but not as many of
> them are putting the landing west of the launch site. The 18Z
> GFS has us landing about 10 miles north, and the 12Z Eta has us
> about 15 miles to the southeast. So who knows.
>
> It appears at this point we'll have light winds at the surface
> through the morning. If this holds up, we'll let everyone sleep
> in a bit and plan to arrive at the launch site around 8:30am CDT.
> We'll launch at 10am CDT if we can.
>
> There is still a chance we'll need to use the Red Oak site (high
> school or park, both of which are close to 34). Anyone know if
> their repeater is on the air and functional? If so, we'll use
> that as a talk-in. 446.3 simplex if not.
>
> 73 de Mark N9XTN
>
>
> To unsubscribe from this group, send an email to:
> KNSP-unsubscribe@yahoogroups.com
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

511. WB8ELK Balloon Status

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 22:13:32 UTC
From: wb8elk@aol.com
Topic: 511 Message: 511

Weather is not looking good for Saturday morning here in Alabama so it's unlikely I'll be able to get something in the air then.....I was wondering if anyone will have an Echolink gateway set up for any of the balloon frequencies?

I'd love a copy of any videotapes taken during the flights on Saturday...and the talks on Friday....those of you who tape the event, please contact me and I'd be happy to cover costs for copies and mailing.

Rick...do you have a Webcam that you can setup on Netmeeting so folks can watch virtually during the talks?

73s de Bill WB8ELK

512. Re: [GPSL] WB8ELK Balloon Status

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 23:13:40 UTC
From: mgray@ess-us.com
Topic: 511 Message: 512

Bill,

I'm hoping to have the ANSR cross band repeater setup on an IRLP node. If I can, you'll be able to connect to reflector node 9255. I just need to get someone who has a Colorado based IRLP node to reconfigure their radio for cross mode.

If not, join us on our next ANSR flight on July 5th. We have been running IRLP on the past few flights.

73s de kd7lmo

On Thu, 12 Jun 2003 wb8elk@... wrote:

> Weather is not looking good for Saturday morning here in Alabama so it's
> unlikely I'll be able to get something in the air then.....I was wondering if
> anyone will have an Echolink gateway set up for any of the balloon frequencies?
>
> I'd love a copy of any videotapes taken during the flights on Saturday...and
> the talks on Friday....those of you who tape the event, please contact me and
> I'd be happy to cover costs for copies and mailing.
>
> Rick...do you have a Webcam that you can setup on Netmeeting so folks can
> watch virtually during the talks?
>
> 73s de Bill WB8ELK
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

513. Re: conference

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-12 19:22:57 UTC
From: Mike Manes
Topic: 513 Message: 513

HI Norm,

Wonderful! It'll be great to have you there! ANd no sweat re the
banquet -- I've cancelled it in order to get home and some sleep for
a 0300 departure for Deer Trail ...

73 de Mike

Norman T Kjome wrote:
>
> Hi Mike,
>
> I plan to be at the conference, but will not attend the banquet. I will
> plan to be at the launch (now at 7 am!!!!)
>
> Norm

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

514. NSTAR 03-C successfully recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-14 16:37:39 UTC
From: Mark Conner
Topic: 514 Message: 514

Only problem today is that the balloon burst at 81K instead of the expected 98K. Primary and backup beacons and the simplex repeater all functioned OK - several simplex repeater and digi contacts noted. The videotape ran to just a few minutes before touchdown - ran out of tape. I'm headed to Wal-Mart shortly with the still camera film - we did open the shutter this time.

Thanks to all who logged and chased. We were about 1/4 mi away at touchdown and saw the landing. I had a brief visual when it was at 22K and descending, but lost it in the sun thereafter.

73 de Mark N9XTN

515. NSTAR quick photo album

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-14 21:00:59 UTC
From: Mark Conner
Topic: 515 Message: 515

http://www.nstar.org/NSTAR03C/NSTAR03C-air.html

You can see the balloon shadow in the first two.

The videotape is probably one of the best we've gotten to date. Good mix of sky and ground through the flight. I think we could see the chase vehicles in some frames near the end. Pretty stable, no "excessive" rotation. We were probably within a couple of minutes of having enough tape to catch the landing. The next flight will be on a 350g balloon and should get it.

I'll be updating the web site tomorrow (I think - need to mow or hay-bale my yard, too).

73 de Mark N9XTN

516. ANSR-13 at GPSL 2003

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-15 23:10:59 UTC
From: kd7lmo
Topic: 516 Message: 516

For complete information on the ANSR-13 flight as part of GPSL 2003.

http://www.kd7lmo.net/ansr_13.html

Thanks for the opportunity to participate in GPSL 2003.

73s de ANSR

Michael Gray, KD7LMO
Jack Crabtree, AA0P
Sue Crabtree, N0GUT

517. GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-16 11:27:52 UTC
From: Ralph Wallio, W0RPK
Topic: 517 Message: 517

I am sifting through chicken tracks (engineering speak for 'evidence') of GPSL2003 flights and find a few potential record entries. I will post these additions when our usual suspects submit required information.

W5VSI-11 Lowest Reported Maximum Altitude 46,595ftASL - ~5,000ftGL = ~41,595ftAGL (5th place)

KD7LMO-11 Highest GPS Reported Altitude 99,288ftASL (11th place)

KD7LMO-11 Shortest Great Circle Distance, Release to Touchdown 2.1miles (1st place)

KC0JHQ-11 Highest GPS Reported Altitude 106,299ftASL (6th place)

KC0JHQ-11 Longest Mission in Time, Release to Touchdown ~4hrs (~4th place but APRS data on findu does not include time stamps)

KD4STH-11 Highest GPS Reported Altitude 98,242ftASL (13th place)

There was a 5th balloon stack but I don't know call(s)

Total Missions Flown count increases.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

518. Re: [GPSL] GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-16 22:59:53 UTC
From: paul.verhage@boiseschools.org
Topic: 517 Message: 518

Can someone send me a copy of the TNC logs? I have no APRS
data from either of the TVNSP flights, KD4STH-9, KD4STH-11, and
KD7HGS-11.

Thanks,
Paul

519. RE: [GPSL] GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-17 18:54:26 UTC
From: Rick von Glahn
Topic: 517 Message: 519
Attachments: 3 described; binary payloads are missing from this source WARC

Here are the logs gathered by Findu.com. Also included is the log file I accumulated from my home QTH (full_packet...)

73 -- Rick, NØKKZ

> -----Original Message-----
> From: paul.verhage@...
> [mailto:paul.verhage@...]
> Sent: Monday, June 16, 2003 4:00 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] GPSL2003 flight records
>
>
> Can someone send me a copy of the TNC logs? I have no APRS
> data from either of the TVNSP flights, KD4STH-9, KD4STH-11, and
> KD7HGS-11.
>
> Thanks,
> Paul
>
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> -------~->
>
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> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to
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>
>
>

520. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-17 20:41:52 UTC
From: Mike Manes
Topic: 460 Message: 520

Hi Mark,

As you probably know by now, the only GPSL digi-capable TNC on 144.34 was W5VSI-11, and we stalled out at 47K' and had to cut down early. However, you might have heard any of these other beacons, all of which hit 90k'+: KD7MFJ-11 (Mt. State), KD4STH-11, -9 or KD7HGS-11 (TVNSP) also time-slotted on 144.34.

EBBE remains vexingly elusive!

73 de Mike W5VSI

Mark Conner wrote:
>
> NSTAR will have a digipeater on 144.34 with alias NSTAR. If any
> of the Colorado balloons flying a 144.34 MHz APRS payload would
> like to attempt a digipeat through us, let me know. This won't
> be a 2-way QSO record, but simply to see if data can be passed
> from one balloon to another over a distance of a few hundred
> miles.
>
> We have a somewhat peculiar wind profile forecast for next
> Saturday. The NSTAR forecast track is to the northwest about 15
> miles, which is OK for us but not by much.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Don Pfister" <ka0jlf@...>
> To: <GPSL@yahoogroups.com>
> Sent: Sunday, June 08, 2003 10:12
> Subject: Re: [GPSL] Counting balloons
>
> >
> > I will try to monitor as best I can. Is there going to be an
> EBBE attempt? I might
> > be able to hit that while mobile.
> >
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

521. Re: [GPSL] GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-18 00:12:31 UTC
From: Mike Manes
Topic: 517 Message: 521
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Paul,

I've zipped up the unexpurgated log file from the EOSS67 Ground Station.
As you can imagine, it's rather cumbersome.

I spent most of the time on 144.34, but QSYed from time to time, so
there are some gaps. THe biggest gap was between yerz trooly's ears,
however, who neglected to open the log file until nearly an hour
after launch. But I do show 'STH and 'HGS down to under 7000 in
descent.

Perhaps others out there have logs that can fill in the gaps.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Can someone send me a copy of the TNC logs? I have no APRS
> data from either of the TVNSP flights, KD4STH-9, KD4STH-11, and
> KD7HGS-11.
>
> Thanks,
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

522. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-18 01:58:52 UTC
From: Mark Conner
Topic: 460 Message: 522

Mike,

I don't think any of the other payloads were set to digipeat via NSTAR. I checked the MHEARD log and the only callsign heard other than those on the chase was W0RPK. I went through two log captures on 144.34 (W0RPK and my home station) and nothing that way either.

We only got to 81,000 ft, which was a ways short for a 1200g Kaysam.

73 de Mark N9XTN

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <GPSL@yahoogroups.com>; "Mark Conner N9TXN" <mconner1@...>
Sent: Tuesday, June 17, 2003 15:41
Subject: Re: [GPSL] Counting balloons

> Hi Mark,
>
> As you probably know by now, the only GPSL digi-capable TNC on 144.34
> was W5VSI-11, and we stalled out at 47K' and had to cut down early.
> However, you might have heard any of these other beacons, all of
> which hit 90k'+: KD7MFJ-11 (Mt. State), KD4STH-11, -9 or KD7HGS-11
> (TVNSP) also time-slotted on 144.34.
>
> EBBE remains vexingly elusive!
>
> 73 de Mike W5VSI
>

523. Re: [EOSS] Re: [GPSL] GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-18 02:03:51 UTC
From: Mark Conner
Topic: 523 Message: 523

I have captured the entire Internet feed for the GPSL flights - this will included anything received at the I-gates but perhaps not saved by FindU (telemetry frames, etc.). If anyone is interested I'll make it available. It's about 6 Mbytes zipped.

73 de Mark N9XTN
----- Original Message -----
From: K. Mark Caviezel
To: EOSS@yahoogroups.com ; Paul Verhage KD4STH ; Bill Hiscock - MT Balloons ; Rick von Glahn N0KKZ
Cc: GPSL@yahoogroups.com
Sent: Tuesday, June 17, 2003 20:05
Subject: Re: [EOSS] Re: [GPSL] GPSL2003 flight records

Not to worry, it's on findu.com and you can get it.

Try this:

http://www.findu.com/cgi-bin/raw.cgi?call=kd4sth-11&start=96&length=48&time=1
or

http://www.findu.com/cgi-bin/raw.cgi?call=kc0jhq-11&start=96&length=48&time=1

note that you'll need to adjust the start and length
time (in hours) relative to what time you are making
the query.

Thanks to Bill Beach for cluing me in to this
capbility of findu.com.

- KMC kc0jhq

--- Mike Manes <manes@...> wrote:
> Hi Paul,
>
> I've zipped up the unexpurgated log file from the
> EOSS67 Ground Station.
> As you can imagine, it's rather cumbersome.
>
> I spent most of the time on 144.34, but QSYed from
> time to time, so
> there are some gaps. THe biggest gap was between
> yerz trooly's ears,
> however, who neglected to open the log file until
> nearly an hour
> after launch. But I do show 'STH and 'HGS down to
> under 7000 in
> descent.

>
> Perhaps others out there have logs that can fill in
> the gaps.
>
> 73 de Mike W5VSI
>
> paul.verhage@... wrote:
> >
> > Can someone send me a copy of the TNC logs? I
> have no APRS
> > data from either of the TVNSP flights, KD4STH-9,
> KD4STH-11, and
> > KD7HGS-11.
> >
> > Thanks,
> > Paul
> >
> >
> > To unsubscribe from this group, send an email to:
> > GPSL-unsubscribe@yahoogroups.com
> >
> >
> >
> > Your use of Yahoo! Groups is subject to
> http://docs.yahoo.com/info/terms/
>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
>
> [Non-text portions of this message have been
> removed]
>
>

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524. Re: [GPSL] Counting balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-19 02:06:44 UTC
From: Mike Manes
Topic: 460 Message: 524

Hi Mark,

A couple of time during the flight, I connected to BALNOD, the
K-node on W5VSI-11, and did a JHeard list - just locals and other
GPSL balloons. Murphy appears to have a strong hand in this EBBE
business!

Try us again on 12 July and 2 Aug -- we will have at least 2 balloons
up on each of those flights, and one will be carrying the W5VSI-11 TNC.

73 de Mike W5VSI

Mark Conner wrote:
>
> Mike,
>
> I don't think any of the other payloads were set to digipeat via
> NSTAR. I checked the MHEARD log and the only callsign heard
> other than those on the chase was W0RPK. I went through two log
> captures on 144.34 (W0RPK and my home station) and nothing that
> way either.
>
> We only got to 81,000 ft, which was a ways short for a 1200g
> Kaysam.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Mike Manes" <manes@...>
> To: <GPSL@yahoogroups.com>; "Mark Conner N9TXN"
> <mconner1@...>
> Sent: Tuesday, June 17, 2003 15:41
> Subject: Re: [GPSL] Counting balloons
>
> > Hi Mark,
> > >
> > As you probably know by now, the only GPSL digi-capable TNC on
> 144.34
> > was W5VSI-11, and we stalled out at 47K' and had to cut down
> early.
> > However, you might have heard any of these other beacons, all
> of
> > which hit 90k'+: KD7MFJ-11 (Mt. State), KD4STH-11, -9 or
> KD7HGS-11
> > (TVNSP) also time-slotted on 144.34.
> > >

> > EBBE remains vexingly elusive!
> >
> > 73 de Mike W5VSI
> >
>
>
> To unsubscribe from this group, send an email to:
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

525. Re: GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-19 05:05:16 UTC
From: Mike Manes
Topic: 517 Message: 525

Hi Bill,

It was great meeting with you and your team again this year, and hope this becomes an annual event! By next year, I hope to have found a launch site which will alleviate FAA's concerns, allows for some westerly drift and which is not much farther from Boulder.

Not that I'm volunteering to host a joint Workshop / GPSL again, however! That'll be up to another group, I hope.

Rick, EOSS's webmaster and Imperator of the Internet, will get this email and post your link on ours, and thanks for plugging EOSS on yours. With all this new latex and gas flying about, I hope our friends at the FAA will adopt some more modern methods for passing our position reports to the sector controllers - I think we have taken it about as far as we can.

Congratulations on another successful flight, and please consider posting your future flight announcements on any of the widely-read ballooning email reflectors. There are plenty of others out there who will be very interested in your program, and you can learn about what the rest of us are doing as well.

73 de Mike W5VSI
Pres EOSS

"W. A. Hiscock" wrote:
>
> Mike:
>
> I want to thank you for running a very successful GPSL. A very
> impressive event with six balloons in flight at once! All our workshop
> participants had a great time, and I'm sure more university ballooning
> programs are going to be created because of this event.
>
> I also wanted to let you know that we are assembling all the data from
> our flight (call KD7MFJ-11) on our BOREALIS website. The digital flight
> images are already up there. See:
>
> http://physics.montana.edu/borealis/Missions/BOR0306B/index.asp
>
> We'll put up a link for that flight to the EOSS pages dealing with the
> GPSL; you may wish to likewise link to our page.
>
> Cheers,
>

> Bill
>
> ***
> William A. Hiscock (406)-994-6170
> Professor of Physics (406)-994-4452 (FAX)
> Director, Montana Space Grant Consortium hiscock@...
> 261A EPS Building KD7MFF
> Montana State University
> Bozeman, MT 59717-3840
> http://www.physics.montana.edu/faculty/hiscock
> ***

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

526. RE: [EOSS] Re: GPSL2003 flight records

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-19 19:59:31 UTC
From: Rick von Glahn
Topic: 517 Message: 526

I've placed links to all the participating groups at:

http://gpsl.eoss.org

These links point directly to GPSL 2003 recap pages unless they haven't
been posted yet. In that case the link goes to the home page of the
group.

Your recap page is included, Bill.

BTW, nice pictures. I photoshopped the payoff picture of the ground
below the balloon. Very nice detail hidden away there!

73 -- Rick, NØKKZ

> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Wednesday, June 18, 2003 10:05 PM
> To: W. A. Hiscock
> Cc: Chris Koehler; GPSL Reflector; EOSS membership reflector
> Subject: [EOSS] Re: GPSL2003 flight records
>
>
> Hi Bill,
>
> It was great meeting with you and your team again this year,
> and hope this becomes an annual event! By next year, I hope
> to have found a launch site which will alleviate FAA's
> concerns, allows for some westerly drift and which is not
> much farther from Boulder.
>
> Not that I'm volunteering to host a joint Workshop / GPSL again,
> however! That'll be up to another group, I hope.
>
> Rick, EOSS's webmaster and Imperator of the Internet, will
> get this email and post your link on ours, and thanks for
> plugging EOSS on
> yours. With all this new latex and gas flying about, I hope our
> friends at the FAA will adopt some more modern methods for
> passing our position reports to the sector controllers - I
> think we have taken it about as far as we can.
>
> Congratulations on another successful flight, and please
> consider posting your future flight announcements on any of
> the widely-read ballooning email reflectors. There are
> plenty of others out there who will be very interested in

> your program, and you can learn about what the rest of us are
> doing as well.
>
> 73 de Mike W5VSI
> Pres EOSS
>
> "W. A. Hiscock" wrote:
> >
> > Mike:
> >
> > I want to thank you for running a very successful GPSL. A very
> > impressive event with six balloons in flight at once! All
> our workshop
> > participants had a great time, and I'm sure more university
> ballooning
> > programs are going to be created because of this event.
> >
> > I also wanted to let you know that we are assembling all
> the data from
> > our flight (call KD7MFJ-11) on our BOREALIS website. The digital
> > flight images are already up there. See:
> >
> > http://physics.montana.edu/borealis/Missions/BOR0306B/index.asp
> >
> > We'll put up a link for that flight to the EOSS pages
> dealing with the
> > GPSL; you may wish to likewise link to our page.
> >
> > Cheers,
> >
> > Bill
> >
> > **********
> > William A. Hiscock (406)-994-6170
> > Professor of Physics (406)-994-4452 (FAX)
> > Director, Montana Space Grant Consortium hiscock@...
> > 261A EPS Building KD7MFF
> > Montana State University
> > Bozeman, MT 59717-3840
> http://www.physics.montana.edu/faculty/hiscock
> >
> **********
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more
> so." A. Einstein
>
>
>

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527. Internet capture file

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-20 14:25:56 UTC
From: Mark Conner
Topic: 527 Message: 527

http://www.nstar.org/NSTAR03C/14Jun2003Internet.zip

This file is the Internet feed from 1000Z to 1630Z on the 14th.
It is 6 Mbytes zipped and 16 Mbytes unzipped.

73 de Mark N9XTN

528. Updated web page for NSTAR 03-C

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-20 19:37:37 UTC
From: Mark Conner
Topic: 528 Message: 528

I have enhanced the aerial photos, included ground photos, and now have a map and flight summary posted to http://www.nstar.org/#03C. I hope to have video and audio clips posted by Sunday evening. Kurt KC0HMI got a good photo of the capsules about 200 ft AGL on the way down, which is featured on the main page.

Doug KA0O got some telephoto pictures of the landing, which I'm hoping to see soon (hint, hint, Doug). :)

73 de Mark N9XTN

Mark D. Conner
E-mail: n9xtn@...
Homepage: http://members.cox.net/mconner1
"Arrogance and stupidity, all in the same package.....how efficient of you!" - Ambassador Londo Mollari, Babylon 5

529. Re: [EOSS] "Balloon" pilot reports

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-24 23:14:19 UTC
From: Mike Manes
Topic: 529 Message: 529

Hi, yawl,

Thanks to Mark for pulling those down. Kinda surprised that there weren't more PIREPs during GPSL.

As I read that first one, a Lear Jet LJ60) reported to Denver Center (ZDV) seeing one at 36,000 ft (FL360) at 0855 MDST (1455Z) 20 mile NW of the Black Forest VOR (BRK 340020). That VOR is about 2 miles W of Falcon CO, and about 20 NE of Colo Sprgs. So that mighta been one of the GPSL balloons, but not sure which one was still intact at that time. EOSS-67A was on the deck at 0850, and the rest of the latex bags were either 'way up there or already descending on 'chutes. Mighta been the ES-OS plastic balloon much higher than 36K' at that time, though; can't tell since the findu log for KC0JHQ-11 isn't time-stamped. Maybe the PIREP altitude is for the rerporting aircraft rather than the balloon (tough to estimate unless it's right on the horizon).

The other two were on the incorrect side of the MS River to be ours.

73 de Mike W5VSI

n9xtn@... wrote:
>
> Out of curiosity, I searched for "balloon" in yesterday's pilot reports from 1100 to 0300 UTC. Here are three.
>
> COS UA /OV BRK 340020/TM 1455/FL360/TP LJ60/RM WEATHER BALLOON AT
> FL360...ZDV=
>
> DTW UA /OV CRL/TM 1510/FL310/TP UNKN/RM NUMR ACFT REPORT WX BALLOON
> FL310-320=
>
> FDY UA /OV FDY135020/TM 1943/FL245/TP UNKN/RM WX BALLOON=
>
> Not sure what the first one is, but the other two are probably the flight from the Detroit launch. CRL is a VORTAC about 10 miles south of DTW, which is downwind of the last report on FindU. FDY is Findlay, OH - the location reported is around 100-125 miles south of Detroit.
>
> If you ever wish to do your own hunting for balloon pilot reports, a 7-day PIREP/AIREP archive is at http://www.met.fsu.edu/Data/archive/aircraft/
>
> 73 de Mark N9XTN
>
>
> To unsubscribe from this group, send an email to:

> EOSS-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

530. Re: [EOSS] "Balloon" pilot reports

Yahoo group: GPSL (2002 — 2008)
Date: 2003-06-25 12:58:55 UTC
From: Mark Conner
Topic: 529 Message: 530

The COS report was the same date as the others for the Detroit flight (Sunday the 22nd), so it wasn't a GPSL balloon. No balloon PIREPs were found for the 14th.

73 de Mark N9XTN
----- Original Message -----
From: Mike Manes
To: EOSS@yahoogroups.com ; KNSP balloon reflector ; GPSL Reflector
Cc: Mark Conner N9TXN
Sent: Tuesday, June 24, 2003 18:14
Subject: Re: [EOSS] "Balloon" pilot reports

Hi, yawl,

Thanks to Mark for pulling those down. Kinda surprised that there weren't more PIREPs during GPSL.

As I read that first one, a Lear Jet LJ60) reported to Denver Center (ZDV) seeing one at 36,000 ft (FL360) at 0855 MDST (1455Z) 20 mile NW of the Black Forest VOR (BRK 340020). That VOR is about 2 miles W of Falcon CO, and about 20 NE of Colo Sprgs. So that mighta been one of the GPSL balloons, but not sure which one was still intact at that time. EOSS-67A was on the deck at 0850, and the rest of the latex bags were either 'way up there or already descending on 'chutes. Mighta been the ES-OS plastic balloon much higher than 36K' at that time, though; can't tell since the findu log for KC0JHQ-11 isn't time-stamped. Maybe the PIREP altitude is for the rerporting aircraft rather than the balloon (tough to estimate unless it's right on the horizon).

The other two were on the incorrect side of the MS River to be ours.

73 de Mike W5VSI

n9xtn@... wrote:
>
> Out of curiosity, I searched for "balloon" in yesterday's pilot reports from 1100 to 0300 UTC. Here are three.
>
> COS UA /OV BRK 340020/TM 1455/FL360/TP LJ60/RM WEATHER BALLOON AT
> FL360...ZDV=
>
> DTW UA /OV CRL/TM 1510/FL310/TP UNKN/RM NUMR ACFT REPORT WX BALLOON
> FL310-320=
>
> FDY UA /OV FDY135020/TM 1943/FL245/TP UNKN/RM WX BALLOON=
>
> Not sure what the first one is, but the other two are probably the flight from the Detroit launch. CRL is a VORTAC about 10 miles south of DTW, which is downwind of the last

report on FindU. FDY is Findlay, OH - the location reported is around 100-125 miles south of Detroit.
>
> If you ever wish to do your own hunting for balloon pilot reports, a 7-day PIREP/AIREP archive is at http://www.met.fsu.edu/Data/archive/aircraft/
>
> 73 de Mark N9XTN
>
>
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> EOSS-unsubscribe@yahoogroups.com
>
>
>
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

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531. GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-10 19:17:00 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 531

I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson, KS. The Cosmosphere is the second largest air and space museum in the US. There is an active near space group and radio club in Hutch, so there is plenty of support.

Would this be a problem for anyone? The tentative date would be a week before the 4th of July holiday. I imagine people will be too busy on the 4th to participate.

Inputs please.

Thanks,
Paul

532. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-10 21:03:04 UTC
From: Ralph Wallio, W0RPK
Topic: 531 Message: 532

Assuming Zack Clobes, W0ZC, the Project Traveler Team and the Reno County Kansas Amateur Radio Association will be our hosts, I support Paul's suggestion. It takes at least a full day to do justice to the Cosmosphere (they threw me out to close their doors for the evening during my visit a couple of years ago). This is a very serious space museum that is worth a special trip regardless of GPSL.

See http://www.rckara.org/ then http://www.rckara.org/project_traveler/ then http://www.cosmo.org/.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 10, 2003 2:17 PM
Subject: [GPSL] GPSL 2004

> I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson, KS. The
> Cosmosphere is the second largest air and space museum in the US. There is an
> active near space group and radio club in Hutch, so there is plenty of support.
>
> Would this be a problem for anyone? The tentative date would be a week before the
> 4th of July holiday. I imagine people will be too busy on the 4th to participate.
>
> Inputs please.
>
> Thanks,
> Paul

533. RE: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-10 22:25:34 UTC
From: Rick von Glahn
Topic: 531 Message: 533

I really enjoyed coming out to Manhattan last year. Visiting the
Cosmosphere and doin' it all again next year looks like a great idea and
location.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: paul.verhage@boiseschools.org
> [mailto:paul.verhage@...]
> Sent: Thursday, July 10, 2003 12:17 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] GPSL 2004
>
>
> I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson,
> KS.
>
> Would this be a problem for anyone? The tentative date would
> be a week before the
> 4th of July holiday.
>
> Inputs please.
>
> Thanks,
> Paul
>
> ------------------------ Yahoo! Groups Sponsor
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> http://www.c1tracking.com/l.asp?cid=5510
>
http://us.click.yahoo.com/kP..SB/49VGAA/ySSFAA/ELTolB/TM
---~->

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GPSL-unsubscribe@yahoogroups.com

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534. RE: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-10 22:58:24 UTC
From: mgray@ess-us.com
Topic: 531 Message: 534

Do they have a Starbucks there yet? :)

On Thu, 10 Jul 2003, Rick von Glahn wrote:

> I really enjoyed coming out to Manhattan last year. Visiting the
> Cosmosphere and doin' it all again next year looks like a great idea and
> location.
>
> 73 -- Rick, N?KKZ
>
> > -----Original Message-----
> > From: paul.verhage@...
> > [mailto:paul.verhage@...]
> > Sent: Thursday, July 10, 2003 12:17 PM
> > To: GPSL@yahoogroups.com
> > Subject: [GPSL] GPSL 2004
> >
> >
> > I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson,
> > KS.
> >
> > Would this be a problem for anyone? The tentative date would
> > be a week before the
> > 4th of July holiday.
> >
> > Inputs please.
> >
> > Thanks,
> > Paul
> >
> > ------------------------ Yahoo! Groups Sponsor
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> > brand: HP, Epson, Lexmark, Canon & more.
> > http://www.c1tracking.com/l.asp?cid=5510
> >
> http://us.click.yahoo.com/kP..SB/49VGAA/ySSFAA/ELTolB/TM
> ---~->
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
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> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

535. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 00:37:53 UTC
From: Zack Clobes
Topic: 531 Message: 535

No starbucks, but there are several new coffee shops popping up around town.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: <mgray@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 10, 2003 5:58 PM
Subject: RE: [GPSL] GPSL 2004

Do they have a Starbucks there yet? :)

On Thu, 10 Jul 2003, Rick von Glahn wrote:

> I really enjoyed coming out to Manhattan last year. Visiting the
> Cosmosphere and doin' it all again next year looks like a great idea and
> location.
>
> 73 -- Rick, N?KKZ
>
> > -----Original Message-----
> > From: paul.verhage@...
> > [mailto:paul.verhage@...]
> > Sent: Thursday, July 10, 2003 12:17 PM
> > To: GPSL@yahoogroups.com
> > Subject: [GPSL] GPSL 2004
> >
> >
> > I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson,
> > KS.
> >
> > Would this be a problem for anyone? The tentative date would
> > be a week before the
> > 4th of July holiday.
> >
> > Inputs please.
> >
> > Thanks,
> > Paul
> >
> > ---------- Yahoo! Groups Sponsor
> > ----------~--> Free shipping on all inkjet
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> > brand: HP, Epson, Lexmark, Canon & more.

> > http://www.c1tracking.com/l.asp?cid=5510
> >
> http://us.click.yahoo.com/kP..SB/49VGAA/ySSFAA/ELTolB/TM
> ---~->
>
> To unsubscribe from this group, send an email to:
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To unsubscribe from this group, send an email to:
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536. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 02:31:50 UTC
From: wb8elk@aol.com
Topic: 531 Message: 536

Sounds like a great location to me....I'll be there....I'll try to bring a payload this time.

- Bill WB8ELK

537. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 15:55:16 UTC
From: Mark Conner
Topic: 531 Message: 537

I think we can get a quorum from NSTAR to participate.

We may need to get Zack to scout an alternate launch site in case we need it. Wichita, Newton, McPherson, and the Cheney Reservoir are all within 40 miles of Hutchinson.

July 4th is a Sunday, so the federal holiday will be the 5th. The long weekend may give some groups more flexibility. Perhaps we should have a show of hands on whether we have this on 3/4 July or 26/27 June.

Would we launch from the museum grounds, or somewhere nearby? As I recall, there may not be a lot of room for multiple flights especially if we have a breeze.

73 de Mark N9XTN

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 10, 2003 14:17
Subject: [GPSL] GPSL 2004

> I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson, KS. The
> Cosmosphere is the second largest air and space museum in the US. There is an
> active near space group and radio club in Hutch, so there is plenty of support.
>
> Would this be a problem for anyone? The tentative date would be a week before the
> 4th of July holiday. I imagine people will be too busy on the 4th to participate.
>
> Inputs please.
>
> Thanks,
> Paul

538. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 16:21:40 UTC
From: Zack Clobes
Topic: 531 Message: 538

I think the Cosmosphere grounds may be a little cramped to do a multi-balloon launch there. There is a football field just across the parking lot where we've had field day before, but as I recall, we were not allowed to step foot onto the turf itself - we were banned to one edge of the field.

I will start thinking about alternates...

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, July 11, 2003 10:55 AM
Subject: Re: [GPSL] GPSL 2004

> I think we can get a quorum from NSTAR to participate.
>
> We may need to get Zack to scout an alternate launch site in case
> we need it. Wichita, Newton, McPherson, and the Cheney Reservoir
> are all within 40 miles of Hutchinson.
>
> July 4th is a Sunday, so the federal holiday will be the 5th.
> The long weekend may give some groups more flexibility. Perhaps
> we should have a show of hands on whether we have this on 3/4
> July or 26/27 June.
>
> Would we launch from the museum grounds, or somewhere nearby? As
> I recall, there may not be a lot of room for multiple flights
> especially if we have a breeze.
>
> 73 de Mark N9XTN
>
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, July 10, 2003 14:17
> Subject: [GPSL] GPSL 2004
>
>
> > I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson,
> KS. The
> > Cosmosphere is the second largest air and space museum in the

> US. There is an
> > active near space group and radio club in Hutch, so there is
> plenty of support.
> >
> > Would this be a problem for anyone? The tentative date would
> be a week before the
> > 4th of July holiday. I imagine people will be too busy on the
> 4th to participate.
> >
> > Inputs please.
> >
> > Thanks,
> > Paul
>
>
>
>
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>
>

539. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 18:01:58 UTC
From: Mark Conner
Topic: 531 Message: 539

Doug KA0O brought up that 26/27 June 2004 is Field Day weekend.
Is that going to constrain or help us?

- Mark

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 10, 2003 14:17
Subject: [GPSL] GPSL 2004

> I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson,
KS. The
> Cosmosphere is the second largest air and space museum in the
US. There is an
> active near space group and radio club in Hutch, so there is
plenty of support.
>
> Would this be a problem for anyone? The tentative date would
be a week before the
> 4th of July holiday. I imagine people will be too busy on the
4th to participate.
>
> Inputs please.
>
> Thanks,
> Paul
>

540. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 18:21:16 UTC
From: Ralph Wallio, W0RPK
Topic: 531 Message: 540

My vote is for the long July 4th weekend for GPSL2004.

The Cosmosphere environment would nicely support a day of conference discussions. These discussions may result in a few new Traveler Team members.

Should we promote a contest and recognition during the mass launch for a goal such as highest altitude?

-w0rpk

541. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 20:32:28 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 541

> Assuming Zack Clobes, W0ZC, the Project Traveler Team and the Reno County
> Kansas Amateur Radio Association will be our hosts, I support Paul's
> suggestion. It takes at least a full day to do justice to the Cosmosphere
> (they threw me out to close their doors for the evening during my visit a
> couple of years ago). This is a very serious space museum that is worth a
> special trip regardless of GPSL.

It is Zack and his team.

I hear the Cosmosphere always throws out the best people.

Paul

542. Near Space Population

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 20:49:39 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 542

I think most near space people subscribe to this list.....

I am wondering about the number of people involved in amateur near space activities. Can someone from each group tell me (a rough number will do) how many people are involved in their group? Also, how many people were actiove, but have dropped out.

I'd like to add this as a note to my book.

Thanks for your time,
Paul

543. RE: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 20:50:17 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 543

> Do they have a Starbucks there yet? :)

I'll leave that one up to Zack.

Paul

544. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 21:05:45 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 544

> July 4th is a Sunday, so the federal holiday will be the 5th.
> The long weekend may give some groups more flexibility. Perhaps
> we should have a show of hands on whether we have this on 3/4
> July or 26/27 June.

Either is fine for me (one of the benefits of being a teacher)

> Would we launch from the museum grounds, or somewhere nearby? As
> I recall, there may not be a lot of room for multiple flights
> especially if we have a breeze.

It would be nice to lauynch at the museum, but if we can't....

Zack, do you have recommendations for launch sites?

I at least want us to present at the museum and also run Mission Control from there. That way we get more public exposure.

Zack, what do have to do to arrangte this with the museum? I don't think they'll remember me anymore.

Paul

545. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 21:12:45 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 545

I'd say move the launch to July and take advantage of the 4th holiday.

Paul

> Doug KA0O brought up that 26/27 June 2004 is Field Day weekend.
> Is that going to constrain or help us?
>
> - Mark
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, July 10, 2003 14:17
> Subject: [GPSL] GPSL 2004
>
>
> > I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson,
> KS. The
> > Cosmosphere is the second largest air and space museum in the
> US. There is an
> > active near space group and radio club in Hutch, so there is
> plenty of support.
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> > Would this be a problem for anyone? The tentative date would
> be a week before the
> > 4th of July holiday. I imagine people will be too busy on the
> 4th to participate.
> >
> > Inputs please.
> >
> > Thanks,
> > Paul
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>
>

546. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 21:17:36 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 546

> Should we promote a contest and recognition during the mass launch for a
> goal such as highest altitude?

I like the idea. Perhaps we should also make some QSL cards specifically for GPSL 2004 and send those out to anyone making a contact to Mission Control through one of the balloons.

Several of us now have some really nice pictures for the cards. I'd also0 recommend sending the cards up on the balloons and recording the altitudes the QSL cards reached before sending them out.

As soon as we can lock in the Cosmosphere, let's see about passing the word out to all the amateur radio magazines.

Paul

547. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 23:03:12 UTC
From: Zack Clobes
Topic: 531 Message: 547

Date:
I'm available for either date but I'd prefer to stay away from Field Day personally. On the other hand, those who wanted to operate would be more than welcome to join the local radio club's event.

Launch Site:
I think we can find plenty of launch sites around here - after all, this is Kansas. We usually launch from a field inside of the city, just a mile or so from the Cosmosphere. There's also an old Navy ?airbase? about 10 miles south of town that is all but abandoned... they fly gliders off of it occasionally.

As I said in the email directly to you, I think we could fly from the main airport in town and I could probably get us into the hangars for filling and prep'ing.

There's also two model airplane fields just outside of town - one about 8 miles south-west and one about 5 miles north. I've got contacts at both of those.

Cosmosphere:
My two concerns with the Cosmosphere are #1 there isn't much room for a launch site (I can try to get a few pictures taken of the area and post them up here). and #2, with their tight budget, they're really not up to giving anyone a free ride with meeting rooms right now. I think they charge something in the neighborhood of $100-$250 per day to use their big meeting room. I don't think having a mission control for public view would be any problem though... Our radio club has had several special event stations in their lobby area without any problem. In fact, I think they were happy to have us.

Currently we have a radio station setup with 2m and HF. I'm a little scared that may get axed in all of their restructuring, but if it does, they've let us run coaxes out some of the emergency exits to setup temporary stations. We now have two mobile towers in town that would probably be available if you wanted to use az-el rotators for ATV or something.

If you would like, I can try to get some firm pricing and availablity. We've tried pulling strings before, and we've never had much luck - even with the local school system kids using the meeting room.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: <paul.verhage@...>

To: <GPSL@yahoogroups.com>
Sent: Friday, July 11, 2003 4:05 PM
Subject: Re: [GPSL] GPSL 2004

> > July 4th is a Sunday, so the federal holiday will be the 5th.
> > The long weekend may give some groups more flexibility. Perhaps
> > we should have a show of hands on whether we have this on 3/4
> > July or 26/27 June.
>
> Either is fine for me (one of the benefits of being a teacher)
>
> > Would we launch from the museum grounds, or somewhere nearby? As
> > I recall, there may not be a lot of room for multiple flights
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>
> It would be nice to lauynch at the museum, but if we can't....
>
> Zack, do you have recommendations for launch sites?
>
> I at least want us to present at the museum and also run Mission Control
from there. That
> way we get more public exposure.
>
> Zack, what do have to do to arrangte this with the museum? I don't think
they'll remember
> me anymore.
>
> Paul
>
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>

548. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-11 23:24:44 UTC
From: Mark Conner
Topic: 531 Message: 548

> Date:
> I'm available for either date but I'd prefer to stay away from
Field Day
> personally. On the other hand, those who wanted to operate
would be more
> than welcome to join the local radio club's event.

Some of the NSTAR guys are also active with Field Day, so we'd be
happier with a non-FD weekend.

>
> Launch Site:
> I think we can find plenty of launch sites around here - after
all, this is
> Kansas. We usually launch from a field inside of the city,
just a mile or
> so from the Cosmosphere. There's also an old Navy ?airbase?
about 10 miles
> south of town that is all but abandoned... they fly gliders off
of it
> occasionally.

SA USA says there is a State of Kansas Law Enforcement center on
the east side.

> As I said in the email directly to you, I think we could fly
from the main
> airport in town and I could probably get us into the hangars
for filling and
> prep'ing.
>
> There's also two model airplane fields just outside of town -
one about 8
> miles south-west and one about 5 miles north. I've got
contacts at both of
> those.

We may need to move more like 20 miles, esp. if the forecast
track is to the SE towards Wichita. Perhaps something like
Kingman, Lyons, McPherson, or Newton as alternates (all of which
have small airports).

73 de Mark N9XTN

549. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-12 00:01:10 UTC
From: wb8elk@aol.com
Topic: 531 Message: 549

My vote is for the July 4th weekend...it's a free 3 day weekend that way and easier to take off time from work for me that way....also a lot of folks tied up with Field Day locally so that would be a bad time for some....I know some folks from my group who won't be able to come out to the balloon event during Field Day.

- Bill WB8ELK

550. Re: [GPSL] Near Space Population

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-22 00:48:41 UTC
From: Mike Manes
Topic: 531 Message: 550

Hi Paul,

Rough numbers are good! It would take some digging in the EOSS archives to arrive at precise figures, so I'll rely on my failing memory and a little help from the other EOSS ol' timers copied here.

Within it's first year, EOSS paid membership hit about 100, and attendance at monthly meetings typically exceeded 60, making venues tough to find!

Since those halcyon days, membership gradually declined, to a low of 20 or 30 in late '98. Not sure why, but it was probably some combination of loss of membership perks like free internet access via the CommPost FIDO board and regular mailings of the "Stratosphere" newsletter, plus some "been there, done that, ..." and loss of most of our school contacts. That year was marked by but a single EOSS flight.

Faced with the gloomy propect of dissolution, Marty Griffin WA0GEH proposed the inspired concept of hosting a competitive "flying foxhunt" open to all hams along the Front Range, with a convenient late-morning launch from a popular park. The big draw were some prizes to be awarded to successful hunters, including a Garmin GPS, at the following EOSS meeting. It worked! , and EOSS's membership became infused with a whole raft of enthusiastic new blood, eager to do it again!

About that time, Chris Koehler of CU Space Grant launched his "Gateway to Space" undergrad class, where students design and build small balloon-borne experiments modelled after the NASA Cubesat spec. Chris approached EOSS for launch and recovery services, having seen what we could do some years earlier when he led the Martin Marietta Explorers with some earlier balloon experiements.

It's been uphill since then, with EOSS membership now about 50, and a flight schedule of about once per month, each of which directly involves from 15 to 25 members -- not to mention the 50 to 85 students whose precious creations are sent aloft and recovered by the dauntless EOSS KD Team!

Now, I will openly invite you others to run fact checks on these specifics and get corrections, additions off to Paul before press time!

73 de Mike W5VSI

paul.verhage@... wrote:
>
> I think most near space people subscribe to this list.....
>

> I am wondering about the number of people involved in amateur near space activities. Can
> someone from each group tell me (a rough number will do) how many people are involved
> in their group? Also, how many people were actiove, but have dropped out.
>
> I'd like to add this as a note to my book.
>
> Thanks for your time,
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

551. A motto maybe?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-23 18:40:55 UTC
From: Ralph Wallio, W0RPK
Topic: 551 Message: 551

Quoting a senior NASA/JPL engineer while discussing problems in Amateur Radio with other active Hams that are also senior NASA/JPL engineers:

>I think the folks doing "garage engineering for high tech" are the
>balloon people. They're the ones scrounging equipment, improvising
>environmental tests in their garage freezers, etc. and, most
>important, appearing to have fun.

We clearly agree.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

552. Re: [GPSL] A motto maybe?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-07-25 16:48:46 UTC
From: paul.verhage@boiseschools.org
Topic: 551 Message: 552

Ralph, can you give me the name of the person who siad that? I'd like to include that quote in my book.

Paul

> Quoting a senior NASA/JPL engineer while discussing problems in Amateur
> Radio with other active Hams that are also senior NASA/JPL engineers:
>
> >I think the folks doing "garage engineering for high tech" are the
> >balloon people. They're the ones scrounging equipment, improvising
> >environmental tests in their garage freezers, etc. and, most
> >important, appearing to have fun.
>
> We clearly agree.
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

553. GPSL 2002 article in Summer '03 CQ-VHF

Yahoo group: GPSL (2002 — 2008)
Date: 2003-08-19 01:44:50 UTC
From: Mark Conner
Topic: 553 Message: 553

The current CQ-VHF magazine has an article by Paul KD4STH on last year's GPSL. I think I let my subscription lapse over the winter - could someone scan me a copy?

73 de Mark N9XTN

554. Re: [GPSL] GPSL 2002 article in Summer '03 CQ-VHF

Yahoo group: GPSL (2002 — 2008)
Date: 2003-08-21 13:05:28 UTC
From: paul.verhage@boiseschools.org
Topic: 553 Message: 554

Mark, I have a copy (they send one free with your article). I'll make a copy and send it.

Paul

> The current CQ-VHF magazine has an article by Paul KD4STH on last
> year's GPSL. I think I let my subscription lapse over the
> winter - could someone scan me a copy?
>
> 73 de Mark N9XTN
>
>
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

555. Re: [Fwd: [GPSL] GPSL 2004]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-09-10 13:12:55 UTC
From: paul.verhage@boiseschools.org
Topic: 555 Message: 555

It is the 4th of July weekend. Maybe I ought to get to work on planning this.

Paul

> Hi Larry,
>
> Here it is: "Cosmosphere" in Hutchison KS. Date is still in flux,
> however. Suspect that Sat 3 July 04 would work. The MS150 event is
> on the weekend of 10-11 July, and I'm committed there.
>
> For Paul: an EOSS contingent is interested in making GPSL '04 - but
> still not sure what's the current consensus date.
>
> 73 de Mike W5VSI
>
> -------- Original Message --------
> Subject: [GPSL] GPSL 2004
> Date: Thu, 10 Jul 2003 13:17:00 -0600
> From: <paul.verhage@...>
> Reply-To: GPSL@yahoogroups.com
> Organization: Boise Schools
> To: GPSL@yahoogroups.com
>
> I'd like to hold GPSL 2004 at the Cosmosphere, in Hutchinson, KS. The
> Cosmosphere is the second largest air and space museum in the US. There
> is an
> active near space group and radio club in Hutch, so there is plenty of
> support.
>
> Would this be a problem for anyone? The tentative date would be a week
> before the
> 4th of July holiday. I imagine people will be too busy on the 4th to
> participate.
>
> Inputs please.
>
> Thanks,
> Paul
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>

> Your use of Yahoo! Groups is subject to
> http://docs.yahoo.com/info/terms/
>

556. Re: [Fwd: [GPSL] GPSL 2004]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-09-10 15:38:19 UTC
From: Ralph Wallio, W0RPK
Topic: 555 Message: 556

The last I recall hearing from Zack was that they would be happy to be our host in Hutchinson. It seems reasonable for Paul to be a distant Trail Boss for GPSL2004 but we need local hosts for lodging, meal, conference, launch and other arrangements.

I also recall Zack mentioning a significant charge for conference facilities in the Cosmosphere, perhaps $200. In my opinion this is a heck of deal if it includes access to the Cosmosphere Museum for all attendees. If we could entice 40 attendees to be with us this would be only ~$5 apiece. A normal adult ticket costs $11 including an IMAX show.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

> It is the 4th of July weekend. Maybe I ought to get to work on planning this.
>
> Paul

557. Re: [Fwd: [GPSL] GPSL 2004]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-09-10 22:08:27 UTC
From: Zack Clobes
Topic: 555 Message: 557

I just gave them a quick call to ask a few questions.

First of all, the main room is not available on Friday 3 July until after 6:30pm. It is available on Fri 9 July all day. That room costs $225 for the day. There is Internet access available (I gathered it was a bring-your-own-computer type of setup).

They have an "observation deck" that I believe is available on any of the Fridays for $125 but I wouldn't recommend it. It is not enclosed at all and it overlooks the main lobby of the Cosmosphere. She didn't recommend the observation deck for anything other than evening use because there is a lot of traffic through the area with staff going to and from the main office. It can seat 40-50 people, and there is no way to dim the lights or even a front of the room to setup a projection screen.

Tickets are not included with the room rental fees. For out-of-county passes, the mueseum costs $3 to go through. They do offer a discounted rate on the IMAX passes of $5 each if they are purchased in conjunction with the room rental. I didn't ask about it, but I believe they also have group rates available even if we don't rent a room from them.

On the bright side, the lady was very receptive to having us setup a radio booth during that Saturday - either at our club station (assuming it's still around - they've moved us a couple of times lately) or a temporary station and running coax out the side door. She was going to get approval on that and get back with me by the end of the week.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
To: <GPSL@yahoogroups.com>
Cc: "Project Traveler" <Project_Traveler@yahoogroups.com>
Sent: Wednesday, September 10, 2003 10:38 AM
Subject: Re: [Fwd: [GPSL] GPSL 2004]

> The last I recall hearing from Zack was that they would be happy to be our
> host in Hutchinson. It seems reasonable for Paul to be a distant Trail
Boss
> for GPSL2004 but we need local hosts for lodging, meal, conference, launch
> and other arrangements.
>
> I also recall Zack mentioning a significant charge for conference
facilities
> in the Cosmosphere, perhaps $200. In my opinion this is a heck of deal if

> it includes access to the Cosmosphere Museum for all attendees. If we
could
> entice 40 attendees to be with us this would be only ~$5 apiece. A normal
> adult ticket costs $11 including an IMAX show.
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
> > It is the 4th of July weekend. Maybe I ought to get to work on planning
> this.
> > >
> > > Paul
>
>
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

558. GPSL in Hutch?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-09-22 01:23:41 UTC
From: Zack Clobes
Topic: 558 Message: 558

In light of the Cosmosphere being booked up, is this something you want to pursue?

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

559. Re: [GPSL] GPSL in Hutch?

Yahoo group: GPSL (2002 — 2008)
Date: 2003-09-22 13:22:52 UTC
From: paul.verhage@boiseschools.org
Topic: 558 Message: 559

Booked up already? Let me think about this.

Paul

> In light of the Cosmosphere being booked up, is this something you want to pursue?
>
> Zack Clobes, W0ZC
> Project: Traveler
> www.rckara.org

560. KG4UWE-11 Balloon from Huntsville Alabama Nov.1st at 11:00 am CST

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-01 08:43:19 UTC
From: wb8elk@aol.com
Topic: 560 Message: 560

KG4UWE-11 student Balloonsat experiment (1st of three weekly experiments this month)

Launch time: 11:00 am CST , Saturday Nov. 1st
Location: near University of Alabama, Huntsville from NSSTC ozone research site

ATV: 426.25 MHz horizontal
APRS: 144.39
Callsign: KG4UWE-11

73s de Bill WB8ELK

561. Re: [GPSL] KG4UWE-11 Balloon from Huntsville Alabama Nov.1st at 11:00 am CST

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-03 02:12:27 UTC
From: Mike Manes
Topic: 560 Message: 561

Hi Bill,

Thanks for the announcement. You might get wider distribution by
posting future launch announcements to the other reflectors
cc'ed above - not sure how may are on the GPSL reflector any more.

Happy landings, and congrats for getting into the BallonSat business!

73 de Mike W5VSI
EOSS

wb8elk@... wrote:
>
> KG4UWE-11 student Balloonsat experiment (1st of three weekly experiments this
> month)
>
> Launch time: 11:00 am CST , Saturday Nov. 1st
> Location: near University of Alabama, Huntsville from NSSTC ozone research
> site
>
> ATV: 426.25 MHz horizontal
> APRS: 144.39
> Callsign: KG4UWE-11
>
> 73s de Bill WB8ELK
>
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

562. BalloonSat IV and V Launch Announcement from Huntsville AL Nov15th

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-14 19:43:16 UTC
From: wb8elk@aol.com
Topic: 562 Message: 562
Attachments: 1 described; binary payloads are missing from this source WARC

BalloonSat IV and V Launch Announcement! Two APRS equipped balloons are planned for launch Saturday morning. Who: University of Alabama Students - (University

563. Stratobowl featured on EPOD

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-21 19:34:45 UTC
From: n9xtn@cox.net
Topic: 563 Message: 563

From the Earth Science Picture of the Day website:

http://epod.usra.edu/archive/epodviewer.php3?oid=164192

73 de Mark N9XTN

564. Re: [KNSP] Stratobowl featured on EPOD

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-21 19:51:17 UTC
From: paul.verhage@boiseschools.org
Topic: 563 Message: 564

Stratobowl is a neat place. I spent some time there in summer 2002. I have some history and directions in my book.

Paul

> From the Earth Science Picture of the Day website:
>
> http://epod.usra.edu/archive/epodviewer.php3?oid=164192
>
> 73 de Mark N9XTN
>
>
>
>
> To unsubscribe from this group, send an email to:
> KNSP-unsubscribe@yahoogroups.com
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

565. ATV Balloon to be flown over Ohio Saturday Nov 29 at 11:30 am EST

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-28 21:49:56 UTC
From: wb8elk@aol.com
Topic: 565 Message: 565

Suntracker 8 balloon will be flown from Portland, Indiana at 11:30 am EST...about a 2 hour flight time...predicted landing site is in the Hillsboro, Ohio area just 30 miles east of Cincinnati....flight path will take it directly over the Dayton area.

For those in the South....reception is possible as far south as Alabama and Georgia.

Bob UVY, I don't have the St. Louis ATVers email addresses...can you forward to them?
KU4WW, can you forward to KD4NOQ...I lost his email address.

ATV - 439.25 MHz
Packet APRS - 144.34
Callsign - KC8MSY

566. Balloon launch has been scrubbed

Yahoo group: GPSL (2002 — 2008)
Date: 2003-11-29 21:00:59 UTC
From: wb8elk@aol.com
Topic: 566 Message: 566

Balloon was scrubbed due to high winds at launchsite....they burst their balloon as they took it out of the hangar.

- Bill WB8ELK

567. Peacestar Balloon help

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-01 08:44:49 UTC
From: wb8elk@aol.com
Topic: 567 Message: 567

A group called Peacestar has contacted me about flying a zero pressure balloon across the country just before Christmas (Dec.20 or 21)....the idea is to have a strobe lamp below the balloon lighting up the envelope at night and also it should be pretty visible during the day.....to simulate the Christmas star.

I'm putting together an APRS payload for it with solar panels....and an ATV payload that can be turned on from time to time.

Raven is supplying the balloon, if we can get it high enough during the day (130 or 140k), it could stay in the air for another day or two without coming down through the tropopause....although we may carry a little ballast on it just to make sure.

I'm currently looking for a launchsite or group willing to help out with getting this off the ground....they want to be able to fly from the West and cut it down before it hits the Atlantic....this time of year that may only take less than 2 days.

Although California might be the ideal place for the farthest distance across the country, I think it would be best to fly from an established balloon group area.

Let me know if any of you are interested in helping out with launchsite, payload, tracking, etc.

73s de Bill WB8ELK

568. Re: [GPSL] Peacestar Balloon help

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-01 15:51:24 UTC
From: Harry M
Topic: 567 Message: 568

Hi Bill,

If you need any support from the Oklahoma City or Tulsa area let me know!
Does Peacestar have a web-site?

73
Harry - KC5TRB
Oklahoma Research Balloons
http://www.gbronline.com/harrymue/orb7

----- Original Message -----
From: wb8elk@...
To: gpsl@yahoogroups.com
Sent: Monday, December 01, 2003 2:44 AM
Subject: [GPSL] Peacestar Balloon help

A group called Peacestar has contacted me about flying a zero pressure
balloon across the country just before Christmas (Dec.20 or 21)....the idea is to
have a strobe lamp below the balloon lighting up the envelope at night and also
it should be pretty visible during the day.....to simulate the Christmas star...

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.545 / Virus Database: 339 - Release Date: 11/27/03

569. RE: [GPSL] Peacestar Balloon help

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-01 18:12:00 UTC
From: Doug, KAØO
Topic: 567 Message: 569

I came up with this on a Yahoo search. It has some information, but this Journal page has Bill's name in it and how he got involved. A place to start.....

http://www.thepeacestar.org/journal/news/0913030807.shtml

Doug, KA?O
ka0o@...

-----Original Message-----
From: Harry M [mailto:harrymue@...]
Sent: Monday, December 01, 2003 9:51 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Peacestar Balloon help

Hi Bill,

If you need any support from the Oklahoma City or Tulsa area let me know!
Does Peacestar have a web-site?

73
Harry - KC5TRB
Oklahoma Research Balloons
http://www.gbronline.com/harrymue/orb7

----- Original Message -----
From: wb8elk@...
To: gpsl@yahoogroups.com
Sent: Monday, December 01, 2003 2:44 AM
Subject: [GPSL] Peacestar Balloon help

A group called Peacestar has contacted me about flying a zero pressure
balloon across the country just before Christmas (Dec.20 or 21)....the idea is to
have a strobe lamp below the balloon lighting up the envelope at night and also
it should be pretty visible during the day.....to simulate the Christmas star...

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Version: 6.0.545 / Virus Database: 339 - Release Date:

11/27/03

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of Service.

570. Re: [GPSL] Peacestar Balloon help

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-01 19:59:51 UTC
From: Harry M
Topic: 567 Message: 570

Thanks Doug!

73
Harry - KC5TRB

Subject: RE: [GPSL] Peacestar Balloon help

I came up with this on a Yahoo search. It has some information, but this Journal page has Bill's name in it and how he got involved. A place to start.....

http://www.thepeacestar.org/journal/news/0913030807.shtml

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.545 / Virus Database: 339 - Release Date: 11/27/03

571. Re: [GPSL] Peacestar Balloon help

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-01 20:09:13 UTC
From: Harry M
Topic: 567 Message: 571

The International Peace Star Project
http://www.thepeacestar.org/

73
Harry - KC5TRB
Oklahoma Research Balloons
http://www.gbronline.com/harrymue/orb7

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (http://www.grisoft.com).
Version: 6.0.545 / Virus Database: 339 - Release Date: 11/27/03

572. Re: [GPSL] Peacestar Balloon help

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-02 06:11:46 UTC
From: Michael L. Bogard
Topic: 567 Message: 572

Hi Bill

Count the Kansas City Amateur Television Group in with at least tracking. Keep the group advised as what, where, and when as this sounds very interesting. Thanks

P.S. I am looking for plans to build a 432 square loop antenna for the mobile and can't find the site it was at a while back. Any help? Thanks de kd0fw Mike.

573. Swiss Adverturer Plans Around-the-World Solar Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-02 10:24:04 UTC
From: Ralph Wallio, W0RPK
Topic: 573 Message: 573

Not a balloon but very interesting nonetheless:

Swiss Adverturer Plans Around-the-World Solar Flight
Solar Impulse to be world's first fuel-free plane

Source: Reuters
[Nov 29, 2003]

LAUSANNE, Switzerland (Reuters) - Swiss adventurer Bertrand Piccard, the first man to pilot a balloon around the world non-stop, has announced plans to circle the planet in a specially built solar-powered aircraft.

Piccard, who circumnavigated the earth in 1999 with Brian Jones of Britain, will lead a team of scientists and aviators in his attempt to fly around the world in a fuel-free plane -- to be called Solar Impulse.

"A century after the Wright brothers' first flight, we look forward to adding new pages to solar aviation," Piccard, 54, said. "It is a colossal challenge."

Lausanne's Federal Institute of Technology will help Piccard's team build an aircraft that can store enough power to stay in the air throughout the night.

See http://www.solar-impulse.com/en/index.php for the complete story.

Forward to group lists as desired.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

574. Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-10 21:17:30 UTC
From: paul.verhage@boiseschools.org
Topic: 574 Message: 574

Zack has company has finalized details for GPSL 2004. Please check out his website at: http://www.rckara.org/project_traveler/gpsl/

Please let the list know if you plan to attend.

Thanks Zack, see you this summer.

Paul

575. Re: [GPSL] Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-10 23:27:22 UTC
From: Mark Conner
Topic: 574 Message: 575

I plan to fly for this one. I crossposted to KNSP to get the
word out.

73 de Mark N9XTN

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, December 10, 2003 15:17
Subject: [GPSL] Announcing GPSL 2004

> Zack has company has finalized details for GPSL 2004. Please
check out his
> website at: http://www.rckara.org/project_traveler/gpsl/
>
> Please let the list know if you plan to attend.
>
> Thanks Zack, see you this summer.
>
> Paul
>

576. Re: [GPSL] Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-11 07:55:36 UTC
From: wb8elk@aol.com
Topic: 574 Message: 576

This year I'm planning on flying a payload, ATV on 439.25 MHz and APRS....see you all there!!!

- Bill WB8ELK

577. Re: [GPSL] Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-11 14:15:08 UTC
From: paul.verhage@boiseschools.org
Topic: 574 Message: 577

I'm planning to bring two balloons for launch. The largest launch so far was GPSL 2002. can we break the record next year?

Zack, is the C-Sphere radio shack being used as a Mission Control?

Paul

> I plan to fly for this one. I crossposted to KNSP to get the
> word out.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Wednesday, December 10, 2003 15:17
> Subject: [GPSL] Announcing GPSL 2004
>
>
> > Zack has company has finalized details for GPSL 2004. Please
> check out his
> > website at: http://www.rckara.org/project_traveler/gpsl/
> > >
> > Please let the list know if you plan to attend.
> > >
> > Thanks Zack, see you this summer.
> > >
> > Paul
> > >
>
>
>
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> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
>
>
> Your use of Yahoo! Groups is subject to http://docs.yahoo.com/info/terms/
>
>

578. Re: [GPSL] Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-11 14:40:12 UTC
From: Ralph Wallio, W0RPK
Topic: 574 Message: 578

Zack,

My thanks to you and Reno County Kansas Amateur Radio Association for hosting GPSL2004! I look forward to being with you in Hutchinson.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

579. Re: [KNSP] Fw: Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-11 18:28:33 UTC
From: Mike Manes
Topic: 579 Message: 579

Hi Mark,

Hutchinson looks like about 400 mi from Denver and an hour S of Salina.
Last time I looked, EOSS had a contingent interested in GPSL '04, and
we have kept that weekend open for EOSS-82. I'll start soliciting
for committments and keep you posted,

If other teams are interested, we can fly the EOSS APRS / TNC module
this time for some EB....BE stuff on 144.34. And we'll avoid any
beacons on the 147.555 Skywarn simplex freq this time! 145.60 instead.

73 de Mike W5VSI
EOSS

Mark Conner wrote:
>
> GPSL 2004 will be in Hutchinson KS on Friday and Saturday, July 3
> and 4, 2004. It's about 5-6 hours and 300 miles from Omaha.
>
> The launch will be on Saturday the 3rd at 8am, with a backup date
> of Sunday the 4th if the weather doesn't cooperate. I believe
> the plan is to have a handful of launch sites picked out so that
> we won't be constrained by upper-level wind forecasts for our
> landing projections. But poor weather at the surface could still
> delay us.
>
> My tentative plans are to leave mid-morning on the 2nd and arrive
> there late afternoon (there will be a dinner for anyone arriving
> on the 2nd). Friday will have several sessions given by the
> different balloon programs (lots of neat video). Friday evening
> will include a tour of the Kansas Cosmosphere, which is a nice
> space museum.
>
> After the flights, we'll meet up for lunch before heading out of
> town.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Wednesday, December 10, 2003 15:17
> Subject: [GPSL] Announcing GPSL 2004
>
> > Zack has company has finalized details for GPSL 2004. Please
> check out his

> > website at: http://www.rckara.org/project_traveler/gpsl/
> >
> > Please let the list know if you plan to attend.
> >
> > Thanks Zack, see you this summer.
> >
> > Paul
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

580. Re: [GPSL] Re: [KNSP] Fw: Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-11 20:22:42 UTC
From: paul.verhage@boiseschools.org
Topic: 579 Message: 580

Hey! We could do EBBBBE witrh all the balloons in Hutchinson!

;)
Paul

> Hi Mark,
>
> Hutchinson looks like about 400 mi from Denver and an hour S of Salina.
> Last time I looked, EOSS had a contingent interested in GPSL '04, and
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581. Re: [GPSL] Re: [KNSP] Fw: Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-11 21:39:35 UTC
From: Mike Manes
Topic: 579 Message: 581

Or for that matter, EBEBEBEBEBE or wotever, depeding on how many
payloads and mobiles have full-up TNC's running! Better bring a
navigator and keyboarder in the car ... :=}
73 de Mike W5VSI

paul.verhage@... wrote:
>
> Hey! We could do EBBBBE witrh all the balloons in Hutchinson!
>
> ;)
> Paul
>
> > Hi Mark,
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> > > > Paul
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582. Re: [GPSL] Announcing GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-12 02:32:51 UTC
From: Zack Clobes
Topic: 574 Message: 582

Assuming that it is there and coax is run, we can certainly use it.

They've moved us around a time or two, and currently we don't have a permanent home, and therefore, no coax inside the building. Hopefully that will be changing before GPSL.

We'll need to get back in touch with the CSphere, but they've given us permission to setup an 8' table near an emergency exit with antennas outside. Jon (a local) has a tower-on-a-trailer that we can setup to get some elevation.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, December 11, 2003 8:15 AM
Subject: Re: [GPSL] Announcing GPSL 2004

> I'm planning to bring two balloons for launch. The largest launch so far was GPSL
> 2002. can we break the record next year?
>
> Zack, is the C-Sphere radio shack being used as a Mission Control?
>
> Paul
>
> > I plan to fly for this one. I crossposted to KNSP to get the
> > word out.
> >
> > 73 de Mark N9XTN
> >
> > ----- Original Message -----
> > From: <paul.verhage@...>
> > To: <GPSL@yahoogroups.com>
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583. GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-13 02:14:06 UTC
From: Zack Clobes
Topic: 531 Message: 583

Thanks to everyone for stating their flight and travel intentions. I have begun to compile this information on the website at www.rckara.org/project_traveler/gpsl/.

For those of you planning on flying a capsule, I would appreceiate if you would email me with the details (see the example for Project: Traveler).

We also have some details to firm up such as telemetry frequency, chase frequencies, etc.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

584. APRS Internet Node

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-13 14:39:11 UTC
From: Zack Clobes
Topic: 584 Message: 584

Can anyone point me in the right direction for setting up a APRS node at my house for GPSL? I've got a Linux server sitting there doing nothing that I would prefer to use if the software is readily available.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

585. Re: [GPSL] APRS Internet Node

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-16 16:25:49 UTC
From: Mark Conner
Topic: 584 Message: 585

If all you want is I-gate functionality, try APRSD. http://sourceforge.net/projects/aprsd/

XASTIR is the full APRS client, and appears to have I-gate functionality as well. http://www.xastir.org/

I briefly used APRSD way back when - was playing around with Linux on a laptop. I'm not familiar with XASTIR at all.

- Mark
----- Original Message -----
From: Zack Clobes
To: Group GPSL
Sent: Saturday, December 13, 2003 08:39
Subject: [GPSL] APRS Internet Node

Can anyone point me in the right direction for setting up a APRS node at my house for GPSL? I've got a Linux server sitting there doing nothing that I would prefer to use if the software is readily available.

Zack Clobes, W0ZC
Project: Traveler
www.rckara.org

586. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-16 23:35:16 UTC
From: Don Pfister
Topic: 531 Message: 586

I haven't been keeping up with my email. Sounds like we should be able to fly then. I'll try to catch up on the details and let you know.

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF
Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

PFranc of KS - GPS cables and connectors

587. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-17 22:00:04 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 587

Is there any interest in creating a product for GPSL 2004? Cafepress.com will let us upload some artwork and create things like mugs and t-shirts. The profits could go to paying for GPSL related costs, like helium.

Let me know what you think.

588. Li ion Batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-17 22:03:19 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 588

All Electronics is selling 1200 mah li ion batteries for cell phones for $6.50. the recharger is $4.50. I was able to solder wires to the battery and wrap in it heat shrink. I also shorted the two metal spring plates inside the recharger and soldered wires to them. This way I could terminate the battery in a connector for my near spacecraft and still recharge them.

Li ion are nice because they don't suffer from memory effect and can handle low temps.

Paul

589. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-21 21:08:28 UTC
From: Mike Manes
Topic: 531 Message: 589

Hi Paul,

I'm guessing that the market for GPSL mementos will be not much
different from that for the balloons and gas -- so rather than
marking up the mementos, sell the mementos, balloons and gas at cost
to keep things simple.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Is there any interest in creating a product for GPSL 2004? Cafepress.com will let us
> upload some artwork and create things like mugs and t-shirts. The profits could go
> to paying for GPSL related costs, like helium.
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> Let me know what you think.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

590. Re: [GPSL] Li ion Batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-21 21:13:58 UTC
From: Mike Manes
Topic: 531 Message: 590

Hi Paul,

Bill K0UT tells me that Li ion batts don't share the low-temp tolerance
of LiSO2 cells. And in fact, they may be less tolerant of cold than
NiMH.

If you get some, could you do some cold-soak capacity tests? I'd sure
like to get away from the tedious task of replacing payload batts for
every flight and adding to what has become a rather large mound of
used LiSO2 cells!

73 de Mike W5VSI

paul.verhage@... wrote:
>
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> recharger is $4.50. I was able to solder wires to the battery and wrap in it heat
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> spacecraft and still recharge them.
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591. Re: [GPSL] Li ion Batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-21 22:59:59 UTC
From: Mark Conner
Topic: 531 Message: 591

http://www.batteryuniversity.com/partone-15.htm

"At low temperatures, the performance of all battery chemistries drops drastically. While -20?C (-4?F) is threshold at which the nickel-metal-hydride, sealed lead-acid and lithium-ion battery cease to function, the nickel-cadmium can go down to -40?C (-40?F). At that frigid temperature, the nickel-cadmium is limited to a discharge rate of 0.2C (5 hour rate). There are new types of Li?ion batteries that are said to operate down to -40?C."

Note that the old heavy NiCd's are the best for cold performance among the rechargeables.

LiSO2 still operates at -40?C but also at reduced capacity.
http://voltaicpower.com/Batteries/high-disch-lith.htm

I have some lithium-polymer batteries that I'll be testing for the NSTAR payload in the next few weeks, to replace the NiMH pack currently in use. The testing will include some cold performance tests.

73 de Mark N9XTN

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <GPSL@yahoogroups.com>
Cc: "Bill Beach K0UT" <k0ut@...>
Sent: Sunday, December 21, 2003 15:13
Subject: Re: [GPSL] Li ion Batteries

> Hi Paul,
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and can handle low
> > temps.
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> > Paul
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592. [Fwd: [GPSL] Li ion Batteries]

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-22 02:37:16 UTC
From: Mike Manes
Topic: 592 Message: 592

Hi Mark,

Thanks for the treatise. I'm cc'ing Bill on this as well. His cell phone w/ Li ion died during first call of the AM at EOSS-72 (cold!!).

And glad to get a confirmation on the LiSO2 -- I guess .... BTW, since those priamry cells do dissipate a bit in the internal resistance under load, I rather doubt they'll ever see -40C during a typical balloon flight while they're loaded. The LiSO2 cells most likely to "chill out" are the one I use to fire the cutdown burner wire - they're unloaded except when burning, and are carried in a 0.33" thick foamcore box inside the parachute canopy. But I can get over ten 10-sec 4+A burns out of 'em.

Guess if I go to Li-ion, it'll take a cold-soak and flight qual before I rely on 'em. Oh, and maybe the Li polymers will perform better ...

73 de Mike W5VSI

Mark Conner wrote:
>
> http://www.batteryuniversity.com/partone-15.htm
>
> "At low temperatures, the performance of all battery chemistries
> drops drastically. While -20?C (-4?F) is threshold at which the
> nickel-metal-hydride, sealed lead-acid and lithium-ion battery
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> Note that the old heavy NiCd's are the best for cold performance
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> To: <GPSL@yahoogroups.com>
> Cc: "Bill Beach K0UT" <k0ut@...>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

593. Nuts and Volts

Yahoo group: GPSL (2002 — 2008)
Date: 2003-12-31 19:18:27 UTC
From: paul.verhage@boiseschools.org
Topic: 593 Message: 593

Check out the Feb and Mar isues of Nuts and Volts.

Paul

594. SSOK/WB0DRL Balloon launched

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-10 16:07:41 UTC
From: Ralph Wallio, W0RPK
Topic: 594 Message: 594

Net control on 7.155 reports launch from near Salina, KS at 16:07z.
Downlink 144.34 using WB0DRL-11. Track via KA0MR-15 Igate at
http://63.245.178.206:14501.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

595. Re: [KNSP] SSOK balloon launch

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-10 16:48:54 UTC
From: Ralph Wallio, W0RPK
Topic: 595 Message: 595

Findu.com now has wb0drl-11. -w0rpk

596. International Space Development Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-11 17:37:15 UTC
From: Harry M
Topic: 596 Message: 596

International Space Development Conference 2004
Clarion Meridian Hotel & Convention Center
737 S. Meridian
Oklahoma City, OK 73108

May 27 - 31, 2004

http://www.isdc2004.org/

73
Harry - KC5TRB
Oklahoma Research Balloons
http://www.gbronline.com/harrymue/orb
http://www.neoksimplex.com/cgi-bin/yabb/YaBB.pl?board=ORB
---

597. Beyond-Earth Enterprises Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-11 18:12:26 UTC
From: Harry M
Topic: 597 Message: 597

Beyond-Earth Enterprises
Launch will be from Sayre, Oklahoma
http://www.beyond-earth.com/index.shtml

73
Harry - KC5TRB
Oklahoma Research Balloons
http://www.gbronline.com/harrymue/orb
http://www.neoksimplex.com/cgi-bin/yabb/YaBB.pl?board=ORB
---

598. A chase team's perspective of yesterday's flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-11 19:42:49 UTC
From: Zack Clobes
Topic: 598 Message: 598

http://www.rckara.org/newsletter/default.asp?Control=VIEW&docID=51

There are a couple of names/callsigns that I didn't catch yesterday. If anyone can fill in the gaps, I'll get it posted ASAP.

Thanks,
Zack

599. GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-11 20:54:16 UTC
From: Zack Clobes
Topic: 599 Message: 599

I've made a few updates to the website with the corrections that I'm aware of. If anyone has anything else or is planning on flying, let me know so I can get it on the list.

http://www.rckara.org/project_traveler/gpsl/

Zack

600. RE: [GPSL] A chase team's perspective of yesterday's flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-12 22:20:19 UTC
From: Rick von Glahn
Topic: 598 Message: 600

Nice recap... Glad we don't have to deal with the trees here in Colorado!!

73 -- Rick, NØKKZ

> -----Original Message-----
> From: Zack Clobes [mailto:zclobes@...]
> Sent: Sunday, January 11, 2004 12:43 PM
> To: Group KNSP; Group GPSL; Group TVNSP; Group Project:
> Traveler; George Clobes; Brad & Kristi Nuest
> Subject: [GPSL] A chase team's perspective of yesterday's flight
>
> http://www.rckara.org/newsletter/default.asp?Control=VIEW&docID=51
>
> There are a couple of names/callsigns that I didn't catch
> yesterday. If anyone can fill in the gaps, I'll get it posted ASAP.
>
> Thanks,
> Zack

601. Re: [EOSS] [Fwd: [GPSL] GPSL]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-16 19:48:56 UTC
From: Mike Manes
Topic: 601 Message: 601

Yo Jackson!

Well, I was kinda hoping to have had an eyeball with you one last time
before you pulled the plug on Ma Martin. Oh well ... maybe yer pension
can support an occasional X-country up to Centennial from time to time.

EOSS is gonna have a larger presence at GPSL this year - besides the
4 of us who did GPSL '02, Benji W0CBH and Larry N0NDM will be joining
us, and there may even be some more (N0LP?). To top that off, Chris
Koelhler will be bringing out his annual Upward Bound native American
student group with 8 lb of their BalloonSats - our summer flight sked
is already booked to the gills, so this was the only slot that worked.

Maybe an ANSR contingent will show up anyway.

Looking forward to some pix of the new QTH.

73 de Mike W5VSI

Jack and Sue Crabtree wrote:
>
> That is the weekend of our big hamfest (formally Fort Tuthill, now will be
> held at the Williams Rodeo Grounds), so we probably will not make GPSL 2004.
> Retirement is great. They started on our Prescott house Monday. Should have
> the foundation in by next week. 73.
> ----- Original Message -----
> From: "Mike Manes" <manes@...>
> To: "EOSS membership reflector" <EOSS@yahoogroups.com>
> Sent: Tuesday, January 13, 2004 17:24 PM
> Subject: [EOSS] [Fwd: [GPSL] GPSL]
>
> > Hi Folks,
> >
> > Looks like GPSL 2004 is coming together, thanks to Zack Clobes and
> > Project Traveller:
> >
> > From their web site:
> > ------ clip ------
> > Next Planned Flight(s)
> >
> > 3 July 2004 - The Project: Traveler group is please to be hosting the
> > 2004 Great Plains Super Launch in Hutchinson, KS. The tenative date will
> > be the weekend of 3 July, with a rain date of Sunday, 4 July.
> > -------- clip -------
> >
> > Zack Clobes wrote:

> > >
> > > I've made a few updates to the website with the corrections that I'm
> > > aware of. If anyone has anything else or is planning on flying, let me
> > > know so I can get it on the list.
> > >
> > > http://www.rckara.org/project_traveler/gpsl/
> > >
> > > Zack
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > > To visit your group on the web, go to:
> > > http://groups.yahoo.com/group/GPSL/
> > >
> > > To unsubscribe from this group, send an email to:
> > > GPSL-unsubscribe@yahoogroups.com
> > >
> > > Your use of Yahoo! Groups is subject to:
> > > http://docs.yahoo.com/info/terms/
> >
> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
> >
> >
> >
> > Yahoo! Groups Links
> >
> > To visit your group on the web, go to:
> > http://groups.yahoo.com/group/EOSS/
> >
> > To unsubscribe from this group, send an email to:
> > EOSS-unsubscribe@yahoogroups.com
> >
> > Your use of Yahoo! Groups is subject to:
> > http://docs.yahoo.com/info/terms/
> >
> >
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

602. Contests

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-26 18:43:32 UTC
From: paul.verhage@boiseschools.org
Topic: 602 Message: 602

Okay, folks, GPSL 2004 has two competitions and Parallax and Nuts and Volts magazine are sponsors for GPSL 2004.

The competitions for GPSL 2004 are,
Highest Altitude
Closest Landing Prediction

The highest altitude award is for the person claiming the balloon as their own. If it's a team effort, the team will have to work out who gets what.

Should we limit the predictions to just your balloon? If we don't, we may get dozens of predictions to sort through.

Both winners receive a one year subscription to Nuts and Volts and a Basic Stamp 2p.

This should be an awesome GPSL. I'll be covering GPSL 2004 for Nuts and Volts magazine. Expect to see me running around get photos and asking for comments.

Paul

PS, be looking for my atrticles in the Feb and March issue of Nuts and Volts. Also look for special announcment in the March issue.

603. Interesting article by Vincent Lally about balloons and UFO sightings

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-27 06:44:02 UTC
From: wb8elk@aol.com
Topic: 603 Message: 603

I found this article which was part of a study of UFO sighting in the 60s.

http://ncas.sawco.com/condon/text/s6chap08.htm

- Bill WB8ELK

604. NSBF Tour

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-27 16:22:58 UTC
From: paul.verhage@boiseschools.org
Topic: 604 Message: 604

Is anyone interested in visiting the National Scientific Balloon Facility in Palestine, TX after GPSL? I'm planning on getting a tour and writing a story about it.

Paul

605. Re: [GPSL] NSBF Tour

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-27 19:11:37 UTC
From: Harry M
Topic: 604 Message: 605

Hi Paul,

Count me in! Keep me informed as to a date you settle on.

73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://www.gbronline.com/harrymue/orb
-----

606. Re: [GPSL] Contests

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-28 04:38:52 UTC
From: Mike Manes
Topic: 602 Message: 606

Hi Folks,

Chris Koehler of Colorado Space Grant Consortium has asked EOSS to provide launch and recovery services for the 2004 Upward Bound BalloonSat class. This class comprises the winners of a nationwide competition amongst Native Americans and other minority high school students. It was a real pleasure to see the delight and enthusiasm of these kids during the 2003 Upward Bound flight!

EOSS is honored to provide this service, but due to an already full flight docket and a limited time window, Chris has agreed to bring his students and their BalloonSat payloads out to GPSL 2004 to fly on the EOSS string. He's agreed to limit the total BalloonSat weight to under 8 lb in order to keep us FAR-101 exempt. However, he could fly more or heavier BalloonSats if there were some spare payload capacity on some of the other GPSL flight strings.

BalloonSats are 10 cm cubes that typically weigh in at 450-600 gm each, are self-contained and generate no RF emissions. They are attached to the flight string using 3mm dacron cord passing thru a central support tube.

Chris would prefer to keep all the BalloonSats on a single string in order to avoid multiple recovery chases, but if GPSL '02 is any indication, we should all land within 5 miles of one another and could easily coordinate multiple recoveries on 2m simplex. Note that since the BalloonSat experiment data is stored on board, recovery is essential.

Any takers?

Paul: how about adding 10K' in "bonus" altitude for each BalloonSat carried up and recovered :=}?

73 de Mike W5VSI
EOSS

paul.verhage@... wrote:
> Okay, folks, GPSL 2004 has two competitions and Parallax and Nuts and Volts
> magazine are sponsors for GPSL 2004.
>
> The competitions for GPSL 2004 are,
> Highest Altitude
> Closest Landing Prediction
>
> The highest altitude award is for the person claiming the balloon as their own. If it's a

> team effort, the team will have to work out who gets what.
>
> Should we limit the predictions to just your balloon? If we don't, we may get dozens
> of predictions to sort through.
>
> Both winners receive a one year subscription to Nuts and Volts and a Basic Stamp
> 2p.
>
> This should be an awesome GPSL. I'll be covering GPSL 2004 for Nuts and Volts
> magazine. Expect to see me running around get photos and asking for comments.
>
> Paul
>
> PS, be looking for my atrticles in the Feb and March issue of Nuts and Volts. Also
> look for special announcment in the March issue.
>
>
>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to:
> http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

607. Re: [GPSL] Contests

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-28 14:29:59 UTC
From: paul.verhage@boiseschools.org
Topic: 602 Message: 607

I'll hitch a couple of BalloonSats to my balloon.

> Paul: how about adding 10K' in "bonus" altitude for each BalloonSat
> carried up and recovered :=}?

Let me think about that. I'm worried that 10,000 feet is a little excessive. How does everyone else feel about that?

Paul

608. Re: [GPSL] Contests

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-28 19:04:11 UTC
From: Zack Clobes
Topic: 602 Message: 608

I'd say leave that out of the contests.

If we came up with any other sponsors that could provide several small prizes, we could use them. One possibility would be the Radio Shack in Derby Kansas (just south of Wichita) - they specialize in ham gear and have donated stuff to our local radio club before for prizes, etc.

Zack

paul.verhage@... wrote:

I'll hitch a couple of BalloonSats to my balloon.

Paul: how about adding 10K' in "bonus" altitude for each BalloonSat
carried up and recovered :=}?

Let me think about that. I'm worried that 10,000 feet is a little excessive. How does everyone else feel about that?

Paul

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

609. Re: [GPSL] Contests

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-28 20:26:10 UTC
From: Mike Manes
Topic: 602 Message: 609

Thanks, Paul! A few more, and maybe we'll free up enough exempt
budget to haul up the crossband repeater and/or the ATV module.

Note that EOSS expects to have a larger contingent at GPSL '04,
so there's been a proposal that EOSS pop up TWO flight strings for
even even MORE "fun" payloads!

We've also been getting some inquiries re cheap rooms, whether there'll
be a GPSL hotel/conference center, etc. WE'll need to get accomodation
info out to Chris Koehler for the Upward Bound students as well. Who's
taking on that task?

73 de Mike W5VSI, EOSS

paul.verhage@... wrote:
>
> I'll hitch a couple of BalloonSats to my balloon.
>
> > Paul: how about adding 10K' in "bonus" altitude for each BalloonSat
> > carried up and recovered :=}?
>
> Let me think about that. I'm worried that 10,000 feet is a little excessive. How does
> everyone else feel about that?
>
> Paul
>
>
>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
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> GPSL-unsubscribe@yahoogroups.com
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

610. Re: [GPSL] Contests

Yahoo group: GPSL (2002 — 2008)
Date: 2004-01-29 14:50:17 UTC
From: paul.verhage@boiseschools.org
Topic: 602 Message: 610

> Thanks, Paul! A few more, and maybe we'll free up enough exempt
> budget to haul up the crossband repeater and/or the ATV module.

> Note that EOSS expects to have a larger contingent at GPSL '04,
> so there's been a proposal that EOSS pop up TWO flight strings for
> even even MORE "fun" payloads!

I'll try to pop up two myself.

> We've also been getting some inquiries re cheap rooms, whether there'll
> be a GPSL hotel/conference center, etc. WE'll need to get accomodation
> info out to Chris Koehler for the Upward Bound students as well. Who's
> taking on that task?

Zack, can you email the group about hotel space?

Thanks,
Paul

611. [Fwd: New Email Address]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-01 01:21:34 UTC
From: Mike Manes
Topic: 611 Message: 611

FYI -- not for updating reflectors, please! Let Harry do that.
Mike

> Harry Mueller KC5TRB wrote:
>
>
> NEW EMAIL ADDRESS
>
> Due to the growing number of SPAM emails (20-30 a day) I
> will only use my old email address to catch the garbage!
>
> I will be using the following as my primary
> email address from now on... hhm@...
>
> Please update your address book!
>
>
>
> Sorry if some of you get this 2 3 4 5 6 7 8 9 times! :)
>
> ---------
> H Mueller
> ---------
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

612. GPSL Website

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-01 05:14:26 UTC
From: Zack Clobes
Topic: 612 Message: 612

Several people have inquired location and accommodations for the 2004 GPSL. The 2004 site is being hosted by the Project: Traveler group and is contained on our webserver.

www.rckara.org/project_traveler/gpsl/

All information will eventually be on here... I already have room and board info, maps to the session, lat/lon for the primary launch site, etc...

If you have any questions, or would like to see something else, let me know and I will try to post it ASAP.

613. Would you like to give a presentation at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-01 23:24:39 UTC
From: Zack Clobes
Topic: 613 Message: 613

So far I only have one (possibly a second depending...) people signed up to give presentations at GPSL. If you are interested in presenting, please email me a topic, a short teaser introduction, and an estimated length. If you need any special equipment or setup schedules, please make me aware of that also.

Zack

614. Re: [GPSL] GPSL Website

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-02 16:22:52 UTC
From: Mike Manes
Topic: 612 Message: 614

Hi Zack,

Thanks for putting that web site together.

EOSS plans to participate at GPSL '04, and hopes to be supporting
an Upward Bound class of students sponsored by Colorado Space Grant
Consortium. This may involve our launching two balloons. I will
send you details for the Scehduled Flights page as soon as details
are known.

73 de Mike W5VSI
Pres EOSS

Zack Clobes wrote:
>
> Several people have inquired location and accommodations for the 2004
> GPSL. The 2004 site is being hosted by the Project: Traveler group and
> is contained on our webserver.
>
> www.rckara.org/project_traveler/gpsl/
>
> All information will eventually be on here... I already have room and
> board info, maps to the session, lat/lon for the primary launch site, etc...
>
> If you have any questions, or would like to see something else, let me
> know and I will try to post it ASAP.
>
>
>
>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to:
> http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

615. Lunch Photos?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-05 15:23:41 UTC
From: paul.verhage@boiseschools.org
Topic: 615 Message: 615

I'd like to add a photograph of chase crews at lunch after a recovery. Does someone have aphoto from one of the GPSLs? I can't find my original. I'll give credit in the book.

By the way, I have completed all but two chapters. The last two require some photos and I should have them done by the end of the month (some of the photos are dependent on the weather). I believe the book will be out by GPSL 2004.

Paul

616. Re: [GPSL] Lunch Photos?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-05 17:23:41 UTC
From: mgray@ess-us.com
Topic: 615 Message: 616

The following is a link to phots from GPSL 2003. The pictures feature educators from the NASA Space Grant group. There is also a photo with Bill Brown in it, which might go nicely with the history of high altitude ballooning as Bill was one of the first to fly high altitude ameteur balloons.

If you need the full size 2048 x 1536 color corrected images suitable for print publication let me know. I can send you a CD or post them on my web site. They are large though, around 3MB / image.

Link to pics:

http://www.kd7lmo.net/ansr_13_photos2.html

On Thu, 5 Feb 2004 paul.verhage@... wrote:

> I'd like to add a photograph of chase crews at lunch after a recovery. Does someone
> have aphoto from one of the GPSLs? I can't find my original. I'll give credit in the
> book.
>
> By the way, I have completed all but two chapters. The last two require some photos
> and I should have them done by the end of the month (some of the photos are
> dependent on the weather). I believe the book will be out by GPSL 2004.
>
> Paul
>
>
>
> Yahoo! Groups Links
>
>
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>
>
>

617. RE: [GPSL] Lunch Photos?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-05 21:23:49 UTC
From: Rick von Glahn
Topic: 615 Message: 617

The EOSS recap of GPSL 2002:

http://www.eoss.org/ansrecap/ar_060/recap58.htm

Has some pictures of lunch post flight.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: paul.verhage@...
> [mailto:paul.verhage@...]
> Sent: Thursday, February 05, 2004 8:24 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Lunch Photos?
>
> I'd like to add a photograph of chase crews at lunch after a
> recovery. Does someone have aphoto from one of the GPSLs? I
> can't find my original. I'll give credit in the book.
>
> By the way, I have completed all but two chapters. The last
> two require some photos and I should have them done by the
> end of the month (some of the photos are dependent on the
> weather). I believe the book will be out by GPSL 2004.
>
> Paul

618. RE: [GPSL] Lunch Photos?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-05 21:40:19 UTC
From: paul.verhage@boiseschools.org
Topic: 615 Message: 618

Great, thanks. That's what I needed. I'll give Marty credit.

Paul
> The EOSS recap of GPSL 2002:
>
> http://www.eoss.org/ansrecap/ar_060/recap58.htm
>
> Has some pictures of lunch post flight.
>
>
> 73 -- Rick, NØKKZ
>
> > -----Original Message-----
> > From: paul.verhage@...g
> > [mailto:paul.verhage@...]
> > Sent: Thursday, February 05, 2004 8:24 AM
> > To: GPSL@yahoogroups.com
> > Subject: [GPSL] Lunch Photos?
> >
> > I'd like to add a photograph of chase crews at lunch after a
> > recovery. Does someone have aphoto from one of the GPSLs? I
> > can't find my original. I'll give credit in the book.
> >
> > By the way, I have completed all but two chapters. The last
> > two require some photos and I should have them done by the
> > end of the month (some of the photos are dependent on the
> > weather). I believe the book will be out by GPSL 2004.
> >
> > Paul
>
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>
> Yahoo! Groups Links
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>

619. Re: [EOSS_Private] Re: [Fwd: [Ballooning] ASU Cube Sat program]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-08 02:22:22 UTC
From: Mike Manes
Topic: 619 Message: 619

Thanks, Rick.
Maybe Zack could add this list to his GPSL distribution as well.
Mike

Rick von Glahn wrote:
>
> Actually, the gpsl mail list is one of the few I don't manage. :-)
>
> However, a blank email sent to:
>
> mailto:GPSL-subscribe@yahoogroups.com
>
> Should get you in the door.
>
> If you are feeling adventurous then you could go the Yahoo web page where it
> is hosted:
>
> http://groups.yahoo.com/group/GPSL/
>
> If you go to the web page then you need to create an alias. However, from
> your comments Chris, I'm thinking you have one (cuspaceguy). But maybe
> that's an alias from somewhere else.
>
> The group is open so I believe there is no manual authentication to join.
> Send the email or go to the web page and you should be golden.
>
> 73 -- Rick, NØKKZ
>
> > -----Original Message-----
> > From: Mike Manes [mailto:manes@...]
> > Sent: Tuesday, February 03, 2004 11:59 PM
> > To: Chris Koehler
> > Cc: Rick von Glahn N0KKZ
> > Subject: [EOSS_Private] Re: [Fwd: [Ballooning] ASU Cube Sat program]
> >
>
> ...snip...
>
> > I've cc'ed Rick on this, and he can guide you thru the GPSL
> > joinup procedure (in fact, I think Rick's got Admin privs on
> > that reflector!)
> >
>
>
>

>
> Yahoo! Groups Links
>
> To visit your group on the web, go to:
> http://groups.yahoo.com/group/EOSS_Private/
>
> To unsubscribe from this group, send an email to:
> EOSS_Private-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to:
> http://docs.yahoo.com/info/terms/

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

620. EOSS-74A launch postponed to Sun 22 Feb

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-20 22:55:10 UTC
From: Mike Manes
Topic: 620 Message: 620

Hi all,

Pardon the multiple deliveries.

The EOSS board has decided to postpone the launch of the EOSS-74A high altitude balloon from Sat 21 Feb to Sun 22 Feb at 0800 MST (1500Z), again from the Windsor CO Fatton Ranch site.

This change was prompted by a weather delay of NSTAR-04A to the same time Sunday. One of the flight goals is to establish an EBBE contact with NSTAR. ORB is also postponing similarly.

This change will be announced on the EOSS web site www.eoos.org and on tonight's preflight net on the Denver 147.225 repeater at 2000 MST. Another preflight net will be held Sat nite, same time, same station.

Launch conditions and forecast trajectory appear equally favorable for both days, and an extra day in the sun should dry up the launch area a bit.

73 de Mike W5VSI,
Pres EOSS

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

621. GPSL Flights

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-23 02:52:17 UTC
From: Zack Clobes
Topic: 621 Message: 621

Okay, I think I have everyone listed on the website who has indicated that they will be showing up. Is there anyone who I've missed?

Those of you who are listed as flying a balloon, please review your information at http://www.rckara.org/project_traveler/gpsl/scheduled_flights.asp and try to fill in any gaps that I've left in your information.

Thanks,
Zack

622. GPSL Talks

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-23 02:54:18 UTC
From: Zack Clobes
Topic: 622 Message: 622

I have a pretty good list of people who have offered to speak at GPSL so far. Is there anyone else interested in giving a presentation?

I think we're going to have more presentations than time, so once I have a finalized list of talks, I will present them to the group for voting and/or discussion. I hope to have that done in the next week or so.

Zack

623. Re: [GPSL] GPSL Talks

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-23 18:38:31 UTC
From: Mike Manes
Topic: 622 Message: 623

HI Zack,

Could you pass along a list of topics that folks have already
signed up for? EOSS would be happy to do a 30 - 60 minute pitch
on some balloon-related topic that's not already being covered.

73 de Mike W5VSI

Zack Clobes wrote:
>
> I have a pretty good list of people who have offered to speak at GPSL so
> far. Is there anyone else interested in giving a presentation?
>
> I think we're going to have more presentations than time, so once I have
> a finalized list of talks, I will present them to the group for voting
> and/or discussion. I hope to have that done in the next week or so.
>
> Zack
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>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

624. Re: [GPSL] GPSL Flights

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-23 18:34:18 UTC
From: Mike Manes
Topic: 621 Message: 624

Hi Zack,

During a recent telcon with Chris Koelhler, who coordinates the
Colo Space Grant Upward Bound program, liablity and logistics issues
will prevent the Upward Bound students from making it to Hutchinson
to fly with TVNSP and EOSS. Thanks to those who offered and considered
letting their payloads tag along on their flight strings.

I'm still solictiing suggestions from the EOSS membership re the
EOSS payload complement for GPSL.

We could bring out the crossband repeater again, but during GPSL 2002,
we got zapped by KS Skywarn for hitting their "private" 147.555 simplex
net freq - that module is rockbound on that freq so I'm not inclined to
re-xtal it to another possibly "private" freq. Is .555 in use in the
Wichita area?

And from the web site, I see that several other groups are planning
on flying 70cm ATV, so that band is looking pretty full already. We
could bring out the de-spun ATV for show and tell, but won't fly it
unless 426.25 is going unused. By that time, however, I hope to have
a command rcvr installed to let us QRT the xmtr - time will tell.

Another option is a simplex repeater on 70 cm or 2m.

As a minimum, we'll have the KPC-3+ APRS module on 144.34 plus a
DF beacon / cutdown cmd rcvr on another open 2m or 70 cm freq.

With this many payloads aloft from the same site at the same time,
frequency and time slotting coordination becomes a fairly important
hair-pulling exercise, Zack.

73 de Mike W5VSI

73 de Mike W5VSI

Zack Clobes wrote:
>
> Okay, I think I have everyone listed on the website who has indicated
> that they will be showing up. Is there anyone who I've missed?
>
> Those of you who are listed as flying a balloon, please review your
> information at
> http://www.rckara.org/project_traveler/gpsl/scheduled_flights.asp and
> try to fill in any gaps that I've left in your information.
>
> Thanks,

> Zack
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

625. Nuts and Volts

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-23 21:39:45 UTC
From: paul.verhage@boiseschools.org
Topic: 593 Message: 625

Look at the bottom of page 66 in the March issue of N&V.

Paul

626. Re: GPSL Flights... time slotting to enable sharing 144.34 ?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-24 01:48:22 UTC
From: Zack Clobes
Topic: 626 Message: 626

I think time slotting is going to be very important for this year's event.

Can someone please define EXACTLY what the accepted definition of time-slotted is? For example, if you're time-slotted at 10 seconds, when do you begin your transmit and how long do you have to transmit? Do you begin your transmission as soon as you decode the GPGGA string with 10 seconds in it, or do you start after you receive the 09 seconds?

Is six seconds per minute sufficient time for each group to transmit their needed data? That would give us 10 balloons on a single frequency with posits every 60 seconds.

Zack

K. Mark Caviezel wrote:

With this many payloads aloft from the same site at
the same time,
frequency and time slotting coordination becomes a
fairly important
hair-pulling exercise, Zack.

Zack: Mike raises an excellent point. I'll point out that the TinyTrak-supported "time slotting" function worked great for two payloads during GPSL 2003 (I think it was EOSS's K0YUK-11 and "ES-OS"'s KC0JHQ-11 beacons < I don't think the EOSS 67 recap fully captured all of the frequency assignments as there was some last minute juggling>). Since the time slotting is based off of GPS derived time, the relative timing can be very accurate, you could probably get reliable position updates once a minute from 30 or 60 TT based APRS trackers all sharing the same frequency. I know many of the groups coming to GPSL already have a TinyTrak and I will suggest that all groups could fly a beacon on one frequency such as 144.34 MHz and time slot them to enable QRM-free sharing of a single frequency. As long as no payload suffers from 'dead key up' this will work fine.

We'll rely on you to be the point contact for frequency co-ordination/QRM elimination. I'll submit a request to fly an APRS beacon on 144.34 MHz, one packet per minute at the top of the minute (:00). And, yes, I am sticking to my plans of flying a 1/2 million cubic foot plastic balloon at GPSL, with good prospect of capturing displacement and absolute altitude records. (although now I need to build this monster!)

- KMC

627. Re: [GPSL] Re: GPSL Flights... time slotting to enable sharing 144.34 ?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-24 02:22:34 UTC
From: Mark Conner
Topic: 626 Message: 627

I think the definition should be that the actual transmission occurs between the seconds specified. The participant should program their device to "compute early" by the number of seconds necessary for formatting, etc., by their device.

Also, chase teams should ensure they have their ground stations disabled from transmitting on 144.34. We don't care where your car is, just your balloon. :-P

73 de Mark N9XTN

----- Original Message -----
From: Zack Clobes
To: Group GPSL
Sent: Monday, February 23, 2004 19:48
Subject: [GPSL] Re: GPSL Flights... time slotting to enable sharing 144.34 ?

I think time slotting is going to be very important for this year's event.

Can someone please define EXACTLY what the accepted definition of time-slotted is? For example, if you're time-slotted at 10 seconds, when do you begin your transmit and how long do you have to transmit? Do you begin your transmission as soon as you decode the GPGGA string with 10 seconds in it, or do you start after you receive the 09 seconds?

Is six seconds per minute sufficient time for each group to transmit their needed data? That would give us 10 balloons on a single frequency with posits every 60 seconds.

Zack

628. NSTAR's planned payload for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-24 02:28:37 UTC
From: Mark Conner
Topic: 628 Message: 628

Main beacon: 144.34 MHz with 2m VFO, time-slottable for posits and telemetry (APRS posit format created by Basic Stamp)
Backup beacon: 144.39 MHz with 2m/70cm VFO, time-slottable, transmits posits only (Tiny Trak)

For our "fun" payload, we can either fly SSTV or a simplex repeater. For SSTV, we'd probably use 147.585 MHz unless that's a "bad" frequency in the Hutchinson area. We've used our simplex repeater on 446.30 MHz in Kansas, Iowa, and Nebraska with no ill effects. The radio used for this payload is 2m/70cm capable.

I think our voice comms should be on 70cm to avoid desense problems for the 2m downlinks.

NSTAR is pretty close to the 12-lb limit, so unfortunately we can't carry other payloads.

73 de Mark N9XTN

629. Re: [GPSL] Re: GPSL Flights... time slotting to enable sharing 144.34 ?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-24 14:30:44 UTC
From: paul.verhage@boiseschools.org
Topic: 626 Message: 629

Once a minute is fine for me.

Paul

> Is six seconds per minute sufficient time for each group to transmit their needed data? That would
> give us 10 balloons on a single frequency with posits every 60 seconds.

630. Re: [GPSL] Re: GPSL Flights... time slotting to enable sharing 144.34 ?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-02-26 04:29:54 UTC
From: Mike Manes
Topic: 626 Message: 630

Hi Zack,

I think that 60-sec APRS reporting intervals should be plenty often
for the GPSL balloons. And the time-slotting is only necessary for
those APRS beacons that share a common beacon freq, e.g. 144.34. I
think ANSR uses a 70 cm freq for theirs, so they needn't time slot
if no one else is on freq. So probably 10-sec slots will suffice with
60-sec GGA beacons. Each beacon takes under 2 sec to transmit.

Now, time slotting works right only when all beacons are using identical
real time references, usually the time stamp on the GPS GGA sentence.
The TinTrak beacon and KPC-3+ beacons can be set up to time slot, but
the KPC-3+ requires you to preset a START time, after which the time
slotting will begin. This means that you gotta get a good GPS
acquistion
before the START time, which should be BEFORE launch! Takes some
godd guesswork and launch coordianation! On GPSL 2003, I blew it,
but was able to recover by going into remote sysop mode just moments
before launch and corrected the START time to 2 minutes later; it
worked.

73 de Mike W5VSI, EOSS

> Zack Clobes wrote:
>
> I think time slotting is going to be very important for this year's
> event.
>
> Can someone please define EXACTLY what the accepted definition of
> time-slotted is? For example, if you're time-slotted at 10 seconds,
> when do you begin your transmit and how long do you have to transmit?
> Do you begin your transmission as soon as you decode the GPGGA string
> with 10 seconds in it, or do you start after you receive the 09
> seconds?
>
> Is six seconds per minute sufficient time for each group to transmit
> their needed data? That would give us 10 balloons on a single
> frequency with posits every 60 seconds.
>
> Zack
>
> K. Mark Caviezel wrote:
>
> >> With this many payloads aloft from the same site at
> >> the same time,
> >> frequency and time slotting coordination becomes a

> >> fairly important
> >> hair-pulling exercise, Zack.
> >>
> >>
> > Zack: Mike raises an excellent point. I'll point out
> > that the TinyTrak-supported "time slotting" function
> > worked great for two payloads during GPSL 2003 (I
> > think it was EOSS's K0YUK-11 and "ES-OS"'s KC0JHQ-11
> > beacons < I don't think the EOSS 67 recap fully
> > captured all of the frequency assignments as there was
> > some last minute juggling>). Since the time slotting
> > is based off of GPS derived time, the relative timing
> > can be very accurate, you could probably get reliable
> > position updates once a minute from 30 or 60 TT based
> > APRS trackers all sharing the same frequency. I know
> > many of the groups coming to GPSL already have a
> > TinyTrak and I will suggest that all groups could fly
> > a beacon on one frequency such as 144.34 MHz and time
> > slot them to enable QRM-free sharing of a single
> > frequency. As long as no payload suffers from 'dead
> > key up' this will work fine.
> >
> > We'll rely on you to be the point contact for
> > frequency co-ordination/QRM elimination. I'll submit
> > a request to fly an APRS beacon on 144.34 MHz, one
> > packet per minute at the top of the minute (:00).
> > And, yes, I am sticking to my plans of flying a 1/2
> > million cubic foot plastic balloon at GPSL, with good
> > prospect of capturing displacement and absolute
> > altitude records. (although now I need to build this
> > monster!)
> >
> >
> > - KMC
> >
> >
>
> --
> Yahoo! Groups Links
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

631. Status of Book and Column

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-01 21:56:43 UTC
From: paul.verhage@boiseschools.org
Topic: 631 Message: 631

Parallax is planning to make my book a free download. Since I have finished writing it, I believe it will be available this summer.

My monthly column in Nuts and Volts magazine will expand on the content in my book. I also want it to introduce readers to what is currently happening in the world of near space, both amateur and professional.

On an irregular basis, I'd like to include an introduction to each currently active balloon group. I'd like each introduction to about 1/2 a page long. For every group written up in the introductions, I'll pay $50 to the group. If your group would like to be included, I need the following.

Name
When formed (a mini history would be good)
Location of launches (the region will be fine)
Type of instruments typically flown
Funniest incident
Greatest sucess
Point of contact
Photograph of the crew.

Use about 1/2 page of text in MS Word
You can send a photo and I'll ask to have it scanned. If it's already scanned, it has to be high resolution. But I'd rather just send the photo in and let N&V scan it.

Thanks,
Paul

PS, if there's topics you'd like to see covered, let me know. I'll email a list of topics I plan to cover

632. Re: [KNSP] SSOK next flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-05 05:50:08 UTC
From: Mike Manes
Topic: 632 Message: 632

Hi Pete,

Hey, great! Been entirely too long since we last had an eyeball - like
ten freaking years since the EOSS Symposium!

And yeah, I'll be there along with a pretty stout contingent from EOSS.

Suggest you susbscribe to the GPSL@yahoogroups.com email reflector,
cc'ed here, to keep abreast of the latest goings-on as GPSL '04
approaches.

73 de Mike W5VSI

pete sias wrote:
>
> Hi Mike,
>
> I am planning on making it... c u there?
>
> Pete
>
> --- Mike Manes <manes@...> wrote:
> > Hi Pete,
> >
> > Happy landings! Do you plan to make GPSL in
> > Hutchinson this year?
> >
> > 73 de Mike W5VSI
> >
> > pete sias wrote:
> > >
> > > Hi to all,
> > >
> > > Planning on launching next Saturday from EM18ct
> > (10
> > > miles west of Salina, KS) at 8 am local.
> > >
> > > Will be flying a 1200 gram Totex balloon with a
> > > thermal cut down device that we will test....
> > > Hydrogen will be the lifting gas and will plan on
> > more
> > > positive lift this time.
> > >
> > > Packet on 144.34
> > > 40 mtr net on 7.155

> > >
> > > Contact me with any questions.
> > >
> > > 73' Pete WB0DRL
> > >
> > > _____
> > > Do you Yahoo!?
> > > Yahoo! Search - Find what you□re looking for
> > faster
> > > http://search.yahoo.com
> > >
> > > List owner: KNSP-owner@yahoogroups.com
> > > Group URL: http://groups.yahoo.com/group/KNSP
> > > wner: KNSP-owner@...m
> > > Group URL: http://groups.yahoo.com/group/KNSP
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > > KNSP-unsubscribe@yahoogroups.com
> > >
> > >
> >
> > --
> > Mike Manes manes@... Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but
> > not more so." A.
> > Einstein
> >
>
> _____
> Do you Yahoo!?
> Yahoo! Search - Find what you□re looking for faster
> http://search.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

633. Time Slotting Definition

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-09 03:05:56 UTC
From: Zack Clobes
Topic: 633 Message: 633

I have written up a prototype of the time-slotting definition for GPSL.
Please review it and give me any feedback ASAP.

http://www.rckara.org/project_traveler/gpsl/time_slot.asp

Also, I don't have any experience with the TT/MIM modules. Could
someone please describe the process for configuring these modules to
transmit all (including telemetry?) data within a specific time frame.

Thanks,
Zack

634. Near Space Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-09 22:06:52 UTC
From: paul.verhage@boiseschools.org
Topic: 634 Message: 634
Attachments: 2 described; binary payloads are missing from this source WARC

I'm designing a logo for amateur near space. Here's my initial desing. I'd be interested in getting feedback on it. I will make the final product available for anyone who wants to make a t-shirt, etc.

Paul

635. Re: [GPSL] Near Space Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-10 23:07:35 UTC
From: Mike Manes
Topic: 634 Message: 635

Hi Paul,

Hmmm "Science from under heaven", if my Latin still serves? How
about adding "et eruditia" (or whatever its proper declension is...).

And how about some curvature of the green earth at the bottom?

73 de Mike W5VSI, EOSS

paul.verhage@... wrote:
>
> I'm designing a logo for amateur near space. Here's my initial desing. I'd be
> interested in getting feedback on it. I will make the final product available for anyone
> who wants to make a t-shirt, etc.
>
> Paul
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
> --
> The following section of this message contains a file attachment
> prepared for transmission using the Internet MIME message format.
> If you are using Pegasus Mail, or any another MIME-compliant system,
> you should be able to save it or view it from within your mailer.
> If you cannot, please ask your system administrator for assistance.
>
> ---- File information -----------
> File: near space gif.gif
> Date: 9 Mar 2004, 14:58
> Size: 11649 bytes.
> Type: GIF-image
>
> --
> Name: near space gif.gif
> near space gif.gif Type: GIF Image (Image/GIF)
> Encoding: BASE64

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

636. Re: [GPSL] Near Space Logo

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-11 14:28:39 UTC
From: paul.verhage@boiseschools.org
Topic: 634 Message: 636

> Hi Paul,
>
> Hmmm "Science from under heaven", if my Latin still serves?

Yep. It was anbout the best I could do with near space.

How
> about adding "et eruditia" (or whatever its proper declension is...).

Let me see what that looks like.

> And how about some curvature of the green earth at the bottom?

I was thinking about that.

Paul

637. Updating GPSL Site

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-11 22:05:55 UTC
From: paul.verhage@boiseschools.org
Topic: 637 Message: 637

I don't recall who began the GPSL email list. It wasn't me. Zack has informed me that we need to update it.

Thanks,
Paul

638. Latin Eruditio

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-11 22:12:00 UTC
From: paul.verhage@boiseschools.org
Topic: 638 Message: 638

Mike, I get that the verb for teaching is eruditio. I tried a Latin to English dictionary online and it says it can't find eruditia. Do you recommend I leave it at eruditio, which should be teaching?

Paul

639. Re: [GPSL] Latin Eruditio

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-14 13:30:07 UTC
From: Mike Manes
Topic: 638 Message: 639

Hi Paul,

Go for it! I don't have a Latin dictionary and was relying strictly
on memory and etymology from Webster's. Ergo my (???) re the proper
Latin form of the noun.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Mike, I get that the verb for teaching is eruditio. I tried a Latin to English dictionary
> online and it says it can't find eruditia. Do you recommend I leave it at eruditio, which
> should be teaching?
>
> Paul
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

640. Re: [GPSL] Updating GPSL Site

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-14 13:32:55 UTC
From: Mike Manes
Topic: 637 Message: 640

Hi Paul,

I think RIck N0KKZ started that list back before GPSL 2002, and
one can join it by going to the yahoo groups web site.

Right, RIck?

73 de Mike W5VSI

paul.verhage@... wrote:
>
> I don't recall who began the GPSL email list. It wasn't me. Zack has informed me
> that we need to update it.
>
> Thanks,
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

641. Re: [GPSL] Latin Eruditio

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-15 14:49:15 UTC
From: paul.verhage@boiseschools.org
Topic: 638 Message: 641

I'll send an updated logo this week.

By the way, I'm planning to visit for either the mid-June or mid-August EOSS flights. If I visit, would EOSS be able to help me launch a balloon at the same time?

Thanks,
Paul

> Hi Paul,
>
> Go for it! I don't have a Latin dictionary and was relying strictly
> on memory and etymology from Webster's. Ergo my (???) re the proper
> Latin form of the noun.
>
> 73 de Mike W5VSI
>
> paul.verhage@... wrote:
> >
> > Mike, I get that the verb for teaching is eruditio. I tried a Latin to English dictionary
> > online and it says it can't find eruditia. Do you recommend I leave it at eruditio, which
> > should be teaching?
> >
> > Paul
> >
> >
> > Yahoo! Groups Links
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> > --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
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> Yahoo! Groups Links
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642. RE: [EOSS] Re: [GPSL] Updating GPSL Site

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-17 20:42:24 UTC
From: Rick von Glahn
Topic: 637 Message: 642

Nope, GPSL at Yahoo is run by Mark Conner. If you go to:

http://groups.yahoo.com/group/GPSL/members

You can see who belongs to the list, who the moderators are and who is the owner.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Sunday, March 14, 2004 6:33 AM
> To: GPSL@yahoogroups.com; Rick von Glahn N0KKZ
> Cc: Zack Clobes W0CZ - Hutchinson; EOSS membership reflector
> Subject: [EOSS] Re: [GPSL] Updating GPSL Site
>
> Hi Paul,
>
> I think RIck N0KKZ started that list back before GPSL 2002,
> and one can join it by going to the yahoo groups web site.
>
> Right, RIck?
>
> 73 de Mike W5VSI

643. new on list

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-17 21:30:27 UTC
From: K. Mark Caviezel
Topic: 643 Message: 643

Hello All:
This is just to say hello, I've been unsubscribed to
this list until right now.
My group, "ES-OS" will plan on flying at GPSL this
year with a bigger zero pressure bag - probably 1/4 to
1/2 million cubic feet - so I am keeping my fingers
crossed for good conditions at launch. This flight
may set displacement and absolute altitude records.

Looking forward to seeing you all there !

- KMC ac0ak (formerly kc0jhq) Edgewater, Colorado.

644. Re: [GPSL] new on list

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-17 21:42:59 UTC
From: paul.verhage@boiseschools.org
Topic: 643 Message: 644

> This is just to say hello, I've been unsubscribed to
> this list until right now.
> My group, "ES-OS" will plan on flying at GPSL this
> year with a bigger zero pressure bag - probably 1/4 to
> 1/2 million cubic feet - so I am keeping my fingers
> crossed for good conditions at launch. This flight
> may set displacement and absolute altitude records.

That's one big balloon!!

Are you looking for more payload to launch?

Paul

645. The "ES-OS" baby Shamu balloon.... was: Re: new on list

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-18 18:51:43 UTC
From: K. Mark Caviezel
Topic: 645 Message: 645

That's one big balloon!!

Are you looking for more payload to launch?

Paul

>>>>>>> Hi Paul: well, I could fly the balloon with
only a flight termination system and my 11 oz APRS
beacon, but that would be like a dumptruck to move a
handful of dirt. I have received some interest from
a university group that may have a 10 lb payload, and
if you (or any other GPSLians) have something you'd
like to fly, please let me know, I'm sure we can work
something out. I'll freely consider payloads up to
40 lbs, and if you have self-jettison capability (with
chute and tracking onboard) the 'baby shamu' could
ascend to a high float altitude, cut away auxilliary
payloads then ascend even higher.

- KMC ac0ak (new callsign)

646. Re: [GPSL] The "ES-OS" baby Shamu balloon.... was: Re: new on list

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-18 18:56:11 UTC
From: paul.verhage@boiseschools.org
Topic: 645 Message: 646

> >>>>>>> Hi Paul: well, I could fly the balloon with
> only a flight termination system and my 11 oz APRS
> beacon, but that would be like a dumptruck to move a
> handful of dirt. I have received some interest from
> a university group that may have a 10 lb payload, and
> if you (or any other GPSLians) have something you'd
> like to fly, please let me know, I'm sure we can work
> something out. I'll freely consider payloads up to
> 40 lbs, and if you have self-jettison capability (with
> chute and tracking onboard) the 'baby shamu' could
> ascend to a high float altitude, cut away auxilliary
> payloads then ascend even higher.

I don't know if I could work something like that in time. However, I can keep the weight very low. I'd be interested in carrying a camera and some weather sensors.

Paul

647. verhage payload on "ES-OS"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-19 19:05:13 UTC
From: K. Mark Caviezel
Topic: 647 Message: 647

> I don't know if I could work something like that in
> time. However, I can keep the
> weight very low. I'd be interested in carrying a
> camera and some weather sensors.

sounds good !

any emitters, or all autonomous ?

It looks very favorable that I'll be flying a HF
frequency hopping PSK 31 APRS payload from KD7LMO on
this ballon, too.

- KMC

648. Re: [GPSL] verhage payload on "ES-OS"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-19 19:24:35 UTC
From: paul.verhage@boiseschools.org
Topic: 647 Message: 648

> > I don't know if I could work something like that in
> > time. However, I can keep the
> > weight very low. I'd be interested in carrying a
> > camera and some weather sensors.
>
> sounds good !
>
> any emitters, or all autonomous ?
>
> It looks very favorable that I'll be flying a HF
> frequency hopping PSK 31 APRS payload from KD7LMO on
> this ballon, too.

I won't put any radios on it. That way it can't interfere with operations or tracking. I'll also make sure it doesn't fall a part, either!!

Thanks for the lift. I think I'll mount the camera to a scan platform. This way it can photo the ground, horizon, and balloon. It will carry a GPS reciever so it can record the altitude and time along with its data.

What's my weight limit? How do you want me to connect my payload to our balloon?

Paul

649. Verhage payload on "ES-OS" 'baby shamu' balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-20 19:24:43 UTC
From: K. Mark Caviezel
Topic: 649 Message: 649

> Thanks for the lift. I think I'll mount the camera
> to a scan platform. This way it can
> photo the ground, horizon, and balloon. It will
> carry a GPS reciever so it can record
> the altitude and time along with its data.
>
> What's my weight limit? How do you want me to
> connect my payload to our balloon?

well, if you self-jettisonned, I'd limit your weight at 40 lbs, but since you're not going to do that, 3-4 lbs is do-able, right ? for payload attachment, I'm fine with probably any method you want as long it can withstand at least 100 lbs tensile pull. The flight string will be 250 lb tensile spectra. and btw, since you're flying a GPS unit in it, if you want to make it beacon APRS, you are more than invited to as I historically have flown some pretty sketchy APRS units and need all the help I can get!

For good photography, you'll probably want to be completely vertical. Right now, I'm not sure I can give you the bottom of the flight string, but if you put a top and bottom attach point so that payloads can fly underneath yours, then that's fine.

- KMC ac0ak (former kc0jhq) Denver, CO

650. Re: [GPSL] Verhage payload on "ES-OS" 'baby shamu' balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-26 20:21:49 UTC
From: paul.verhage@boiseschools.org
Topic: 649 Message: 650

> well, if you self-jettisonned, I'd limit your weight
> at 40 lbs, but since you're not going to do that, 3-4
> lbs is do-able, right ? for payload attachment, I'm
> fine with probably any method you want as long it can
> withstand at least 100 lbs tensile pull. The flight
> string will be 250 lb tensile spectra. and btw,
> since you're flying a GPS unit in it, if you want to
> make it beacon APRS, you are more than invited to as I
> historically have flown some pretty sketchy APRS units
> and need all the help I can get!

I'll keep the weight to 4 pounds, then. Thanks. I'll mount everything inside a box that has four attachment points. I don't know if I have the spare tracker, but I'll see what I can do.

For anyone else out there, do you have a space APRS tracker (lightweight) that could go inisde my module?

Paul

651. Re: Verhage payload on "ES-OS" 'baby shamu' balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-27 15:33:48 UTC
From: K. Mark Caviezel
Topic: 649 Message: 651

> For anyone else out there, do you have a space APRS
> tracker (lightweight) that
> could go inisde my module?
>
> Paul

Paul, since you have GPS already onboard, you could
add something like this:
http://www.byonics.com/pockettracker/
to make a tracker out of it.

- KMC ac0ak

652. Bill Brown

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-30 17:28:46 UTC
From: paul.verhage@boiseschools.org
Topic: 652 Message: 652

Bill, there is an interest is talking to balloon people from the south. Can you send me your email address?

Paul

653. Re: [GPSL] Bill Brown

Yahoo group: GPSL (2002 — 2008)
Date: 2004-03-30 20:21:23 UTC
From: wb8elk@aol.com
Topic: 652 Message: 653

Hi Paul....my email is: wb8elk@...

73s de Bill WB8ELK

We are doing several flights from Univ of Alabama, Huntsville as part of a senior engineering BalloonSat class. The first flight will be April 10th and every weekend in April afterwards. I'll post details as plans get finalized. They did a series of flights last Fall which were quite successful.

654. Balloon Payload Information

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-02 04:29:13 UTC
From: kd7lmo
Topic: 654 Message: 654

I've updated my web site with technical information on a variety of high altitude balloon projects. The projects are all open source hardware/software and designed to MIL spec standards. Some of the highlights include:

S-Band (2.4 GHz) FM video transmitter and receiver:
http://www.kd7lmo.net/videolink.html
http://www.kd7lmo.net/ground_atv.html

Multi-standard HF-APRS system for OTH (Over The Horizon) tracking of floater type balloons. Software currently supports PSK-31, 300 band FSK APRS, and 1200 baud A-FSK APRS
http://www.kd7lmo.net/psk31.html

Non-primary (rechargeable) Lithium-Ion battery packs:
http://www.kd7lmo.net/tech_pwrsource.html

Very compact DC/DC power converter to reduce battery count and weight:
http://www.kd7lmo.net/tech_pwrconv_2.html

73s de KD7LMO
Michael Gray

655. Re: FW: latest NTBP #11 launch dates

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-12 04:17:58 UTC
From: Mike Manes
Topic: 655 Message: 655

Hi Doug,

Welcome back to the now much larger balloonacy community! This
stuff has really taken off in recent years, and I've posted a
cc of this to a few of the balloon group email reflectors that
you might want to join. And take a peek at EOSS's web site,
www.eoss.org for more links, updates on our stuff, etc.

The NASA Space Grant Colleges have taken a shine to high altitude
balloons as a "poor man's space program" for aerospace undergrads.
You might see if there are any interested colleges in the DFW area
that you could link up with. Makes the activity a lot more like
a real public service!

73 de Mike W5VSI, EOSS

Doug Howard wrote:
>
> Hi Mike,
>
> Well it has been a few years, hasn't it? I was the coordinator of NTBP
> for our first 8 launches and did a great deal of the payload
> development. Then I had a family matter that required all of my
> attention, and I couldn't continue being very involved in NTBP. Another
> fellow, Bill Davis - KG5IE, took over for the 9th launch and he
> discovered how much work was involved. After that, interest died in the
> project partly because of all the work that it required and partly
> because no one was willing to follow through with payload ideas. The
> Lockheed Radio Club, kind of a sponsoring organization for NTBP, went
> through a bit of a lull during that time (1998-2003) as well. Interest
> began to pick up again after the Lockheed Club hosted the AMSAT
> Symposium in 2002 and we began to plan for our 10th launch which occured
> on Labor Day weekend 2003. Another guy, Jory McIntosh - KJ5RM, is the
> payload developer on NTBP#11. He's a young and energetic guy that loves
> to tinker with things, so he's had a fun time with it.
>
> So that's the story on what happened to cause the hiatus and what
> brought us back to life. Thanks for the interest. It is good to get back
> up in the air again.
>
> 73,
> Doug - KG5OA
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Monday, March 22, 2004 11:15 PM

> To: Ralph Wallio, W0RPK
> Cc: Mike Manes, W5VSI; Jack Crabtree, W7JLC; Bill Brown, WB8ELK;
> k5gd@...
> Subject: Re: FW: latest NTBP #11 launch dates
>
> Hi Ralph,
>
> I seem to recall that NTBP was real active in the early '90s and
> suddenly dropped off the radar. Glad it's been revived after
> yea these many years.
>
> As much as their records might show, I dearly love to learn what
> brought on that hiatus and what brought 'em back to life.
>
> 73 de Mike W5VSI
> Prez EOSS
>
> --
> Mike Manes manes@... Tel: 303-979-4899

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

656. 2004 Digital Communications Conference - Des Moines

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-21 12:06:04 UTC
From: Ralph Wallio, W0RPK
Topic: 656 Message: 656

Call For Papers--2004 Digital Communications Conference

The 2004 TAPR/ARRL Digital Communications Conference will be held September 10-12 at the Airport Holiday Inn in Des Moines, Iowa. You'll find more conference information on the Web at http://www.tapr.org/dcc/.

We are now accepting papers for the conference proceedings. You do NOT have to be present at the conference to have your paper included in the proceedings.

Please send your submission by August 10 to:

Maty Weinberg
ARRL
225 Main St
Newington, CT 06111

658. Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 17:10:06 UTC
From: paul.verhage@boiseschools.org
Topic: 658 Message: 658

Ralph, it looks like you got a virus sending email to the group.

Paul

659. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 17:27:06 UTC
From: Ralph Wallio, W0RPK
Topic: 658 Message: 659

What ever it is did not start here. My system is virus protected and my incoming email is scanned for viruses by a service bureau before delivery. The only message I have recently sent to GPSL was about DCC/Des Moines and was also sent to KNSP and Midwest APRS lists. I received three copies of this message via the service bureau certified as virus-free.

Does your Boise Schools network scan for viruses?

- w0rpk

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, April 23, 2004 12:10 PM
Subject: [GPSL] Don't Open Ralph's Email

> Ralph, it looks like you got a virus sending email to the group.
>
> Paul
>

660. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 17:35:53 UTC
From: paul.verhage@boiseschools.org
Topic: 658 Message: 660

> What ever it is did not start here. My system is virus protected and my
> incoming email is scanned for viruses by a service bureau before delivery.
> The only message I have recently sent to GPSL was about DCC/Des Moines and
> was also sent to KNSP and Midwest APRS lists. I received three copies of
> this message via the service bureau certified as virus-free.
>
> Does your Boise Schools network scan for viruses?

As best as I know, we don't scan for visues when they get here. I've had to make it a practice to look at attachments as a text file.

Is someone's email faking your email address?

Paul

661. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 17:42:51 UTC
From: Zack Clobes
Topic: 658 Message: 661

I haven't seen anything come from GPSL or Ralph in quite a while.

Zack

paul.verhage@... wrote:

What ever it is did not start here. My system is virus protected and my
incoming email is scanned for viruses by a service bureau before delivery.
The only message I have recently sent to GPSL was about DCC/Des Moines and
was also sent to KNSP and Midwest APRS lists. I received three copies of
this message via the service bureau certified as virus-free.

Does your Boise Schools network scan for viruses?

As best as I know, we don't scan for visues when they get here. I've had to make it a
practice to look at attachments as a text file.

Is someone's email faking your email address?

Paul

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Printer at MyInks.com. Free s/h on orders $50 or more to the US & Canada.
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http://us.click.yahoo.com/mOAaAA/3exGAA/qnsNAA/ELTolB/TM
---~->

Yahoo! Groups Links

<*> To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

<*> To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

<*> Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

662. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 17:46:31 UTC
From: paul.verhage@boiseschools.org
Topic: 658 Message: 662

> I haven't seen anything come from GPSL or Ralph in quite a while.
>
> Zack
>
> paul.verhage@... wrote:
> What ever it is did not start here. My system is virus protected and my
> incoming email is scanned for viruses by a service bureau before delivery.
> The only message I have recently sent to GPSL was about DCC/Des Moines and
> was also sent to KNSP and Midwest APRS lists. I received three copies of
> this message via the service bureau certified as virus-free.
>
> Does your Boise Schools network scan for viruses?
>
>
> As best as I know, we don't scan for visues when they get here. I've had to make it a
> practice to look at attachments as a text file.
>
> Is someone's email faking your email address?

I couldn't be sending email to myself, could I?

Paul

663. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 17:53:13 UTC
From: mgray@ess-us.com
Topic: 658 Message: 663

No, it was sent to the group. I looked at the headers in the e-mail. It
appears as though Ralph's e-mail address was harvested from a site and
used to send a message to the group. A clever attacker can modify the
e-mail headers to fool Yahoo into thinking it is a legitmate subscriber
to the group.

The moderator of the group should delete message #657. It contains a live
virus if you are running a PC. If you are running Linux and text based
e-mail, there are no worries. :)

On Fri, 23 Apr 2004 paul.verhage@... wrote:

> > I haven't seen anything come from GPSL or Ralph in quite a while.
> >
> > Zack
> >
> > paul.verhage@... wrote:
> > What ever it is did not start here. My system is virus protected and my
> > incoming email is scanned for viruses by a service bureau before delivery.
> > The only message I have recently sent to GPSL was about DCC/Des Moines and
> > was also sent to KNSP and Midwest APRS lists. I received three copies of
> > this message via the service bureau certified as virus-free.
> >
> > Does your Boise Schools network scan for viruses?
> >
> >
> > As best as I know, we don't scan for visues when they get here. I've had to make it a
> > practice to look at attachments as a text file.
> >
> > Is someone's email faking your email address?
>
> I couldn't be sending email to myself, could I?
>
> Paul
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

664. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 18:11:46 UTC
From: Ralph Wallio, W0RPK
Topic: 658 Message: 664

The offending message was just trapped by my service bureau but I can read a sanitized version. It is not the DCC/Des Moines message I sent early Wednesday morning. The entire sanitized version is included below (between short dashed lines). I assume the virus is in Attachments:application/octet-stream. -w0rpk

---

Date: Fri, 23 Apr 2004 11:44:18 -0500
From: wallio@...
To: gpsl@yahoogroups.com
Subject: [GPSL] Re: Re: Message

Please read the attached file.

Yahoo! Groups Links

Attachments:
application/octet-stream

---

665. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-23 23:06:09 UTC
From: Mark Conner
Topic: 658 Message: 665

The message has been removed from the Yahoo message archive.

73 de Mark N9XTN

----- Original Message -----
From: <mgray@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, April 23, 2004 12:53
Subject: Re: [GPSL] Don't Open Ralph's Email

> The moderator of the group should delete message #657. It
contains a live
> virus if you are running a PC. If you are running Linux and
text based
> e-mail, there are no worries. :)

666. Re: [GPSL] Don't Open Ralph's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2004-04-24 04:30:35 UTC
From: Mike Manes
Topic: 658 Message: 666

Hi Ralph,

You got spooffed. The sender was your email address rather than
your more familiar "Ralph Wallio, W0RPK" email moniker. And the
Subject line was also atypical: "Re: Re: Message".

I got a spoofed spam from "myself" once, pushing a porn site, of all
things! I was so incenced that I set my son the warpath to launch
a DoS attack on the server that sent it. No more such nonsense
in last 2 years. The key to controlling spam lies with the servers'
acting to stop it - but until they all quit taking kickbacks, it'll
keep on coming.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> What ever it is did not start here. My system is virus protected and my
> incoming email is scanned for viruses by a service bureau before delivery.
> The only message I have recently sent to GPSL was about DCC/Des Moines and
> was also sent to KNSP and Midwest APRS lists. I received three copies of
> this message via the service bureau certified as virus-free.
>
> Does your Boise Schools network scan for viruses?
>
> - w0rpk
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Friday, April 23, 2004 12:10 PM
> Subject: [GPSL] Don't Open Ralph's Email
>
> > Ralph, it looks like you got a virus sending email to the group.
> > >
> > > Paul
> > >
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

667. Re: GPSL link on eoss home page?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-09 18:25:15 UTC
From: Mike Manes
Topic: 667 Message: 667

Hi Rick and Zack,

Then I guess the reference to the Upward Bound students was on Zack's GPSL site.

Zack: it turns out that transport logistics prevent the Upward Bound students from joining us at GPSL 2004, so if that's really on your site, suggest dropping it. And I hope to have a final payload plan to post on your site after next Tuesday's EOSS meeting. Rest assured, EOSS will be there!

A couple of other issues:

1. Are you doing freq coordination for all the balloon beacons? One of our payloads is a crossband repeater with APRS packet overlaid on the downlink. The xmtr runs continuously and is rockbound on 147.555, and the uplink is xtalled on 445.975.

2. Any luck with time slotting the other APRS beacons? ANSR appears to have grabbed all the slots on their 445.950 downlink; we could accomodate a few slotted 60-sec interval APRS beacons on our crossband uplink, but if it's used extensively for tracker coordination, some of those beacons could be lost.

3. At GPSL 2002, we got gripes from the SKyWarn group near Manhattan for our downlink on 147.555, which they use for simplex coordination. Will this be an issue near Hutchinson?

And have any of the other groups settled on a motel yet? It would be nice to gather in the same place like we did last two GPSLs.

73 de Mike W5VSI, EOSS

Rick von Glahn wrote:
>
> Mike,
>
> > -----Original Message-----
> > From: Mike Manes [mailto:manes@attglobal.net]
> > Sent: Friday, May 07, 2004 6:21 PM
> > To: rick@...
> > Subject: Re: GPSL link on Eoss home page?
> >
>
> > Ummm - mebbe Google for it? :=}. I'm PRETTY sure I saw it on
> > OUR GPSL 2004 or upcoming flight page somewhere ... coulda
> > been on Zack's tho.

>
> That was a good suggestion ... I googled it and didn't find any connection
> between the keyword GPSL and Upward Bound, I then just searched for all
> references to GPSL and likewise. I think that reference may have been on
> someone else's site.
>
> > Re motels: quiet, comfortable, in town and free are optimum
> > for me; anything thing else is a compromise. "Nice" doesn't
> > factor in.
> > Aren'cha glad I asked? Should I just book rooms for both of
> > us, late arrival on Thurs? I also have the Motel 8 card,
> > plus Marriot, Hyatt, etc.
>
> I travel so little my "budget" is pretty much totally open. So, just go ahead
> and book a room for each of us at any old place that suits your plans. I like
> nice hotels but really, we are only there to sleep so various expensive
> accoutrements are really superfluous.
>
> > Hey, I'm just bummin' a ride, Rick. You da boss, here. If
> > another night on the road doesn't bust the 201(k), then a
> > more leisurely trip back would be welcome - and we could have
> > some post-recovery "extra grease" with the gang as well. And
> > if the launch gets a wx delay, then the question's moot ...
>
> OK, let's just plan on staying through to Sunday. We can always haul ass outta
> town early if some reason presents itself, otherwise, we're booked and have a
> roof to protect us from the elements.
>
> 73 -- Rick, NØKKZ
>
> ----------------------------
> | NEW EMAIL ADDRESS IS |
> | rick@... |
> | Take note |
> ----------------------------
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

668. EOSS payloads and attendance for GPSL '04

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-14 17:50:21 UTC
From: Mike Manes
Topic: 668 Message: 668
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Zack,

I've attached a draft payload plan for EOSS at GPSL this year. PLs add it to your web site info. It's in Word97 format. Let me know if you need it in another format. We can drop the crossband repeater if freqs are getting scarce, but do want to run the ATV, APRS and DF cutter as a minimum. The valvedown balloon is also a TBD.

So far, eight EOSS members plus some XYLs plan to attend GPSL. We'd like to stay in the same motel as the rest of the attendees, if one has been picked. Any recommendations?

And EOSS can fill an hour during the Friday seminar - possible topics include: Tracking, FAA reporting via findu, Allaiances with Space Grant Colleges, national balloon organization. Depends on what the rest of the group is interested in hearing.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

669. Re: [GPSL] EOSS payloads and attendance for GPSL '04

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-18 20:43:12 UTC
From: Harry M
Topic: 668 Message: 669

I haven't seen anyone else post there lodging preferences.
My plan right now is to stay at the Holiday Inn Express (at the Mall).
I have made the reservations and if all goes well I will be there.

73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://www.neoksimplex.com/cgi-bin/yabb/YaBB.pl#general_cat

>
> So far, eight EOSS members plus some XYLs plan to attend GPSL. We'd
> like to stay in the same motel as the rest of the attendees, if one
> has been picked. Any recommendations?
>

670. GPSL Preparations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 02:44:39 UTC
From: Zack Clobes
Topic: 670 Message: 670

First of all, let me say that I'm sorry for not keeping the website more up-to-date and better at responding to emails... but I have a good excuse (http://home.swbell.net/zclobes/).

That out of the way, we still have several items up for discussion:

PRESENTATIONS:
The following is the list of possible presentations/presenters. I'm open to suggestions as to how many presentations we have, how long they last, and who presents.

- Mark Caviezel, ES-OS, Zero pressure balloons

- Tony Barrett, Sub 3-ounce tracking system

- Bill, WB8ELK, PeaceStar

- Paul Verhage, Cosmic Rays

- Mike Manes, EOSS, Tracking -OR- FAA reporting -OR- Alliances with Space Grant Colleges -OR- national balloon organization

TIME SLOTTING/FREQUENCY ALLOCATIONS:
I've put together a rough outline of a definition of time-slotting at http://www.rckara.org/project_traveler/gpsl/time_slot.asp. I don't have any experience with the MIM modules or KPC-3+ config so if someone else would be willing to write a paragraph or two outlining the proper configuration, I'll post it to the site ASAP.

We currently have approximately 7 balloons anticipating using 144.3xMHz for APRS position reporting. Dividing a minute by 10 brings us to slots of 6 seconds each, once per minute.

I am not aware of any frequency congestion issues on 144.34MHz in the Hutchinson area, so I'd recommend using that unless someone feels strongly otherwise. I do have an I-Gate sitting in my basement available for use at GPSL - it can be changed to any 2m frequency.

LODGING:
It sounds like several people have been gravitating toward the Holiday Inn Express. I can't speak from personal experience, but I've never heard anything bad about the place and it's in a good location for the conference, food, easy to find, etc...

HELIUM:
I plan on calling tomorrow to confirm and, hopefully, get a firm price, but I've been told helium should be in the $45 per 240cu ft range.

LAUNCH SITES:
I have not made any contact with alternate launch sites at this point. I'm going to try calling the McPherson airport tomorrow to see if that would be an option. We also have an old military airbase about 15 miles S-SE of town that may be an option #3. I will try to post information soon with Lat/Lon and directions.

Let me know if there's anything I'm missing - it's going to be here before we know it!!!!!!!!!
Zack

671. Re: [GPSL] GPSL Preparations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 04:14:11 UTC
From: Mike Manes
Topic: 670 Message: 671

Hi Zack

Hey, you've bitten off a Big Job, as mah dear besainted momma usta say. So if your feeling a bit overwhelmed, ask others to lend a hand, where it can be handled w/o being in Hutchinson.

Re the EOSS bit: Marty WA0GEH does a KILLER job on the EOSS T&R method that's creditted with our 76/76 recovery record over 13+ years. But he did that pitch at GPSL 2002, and even demoed it a bit going after the last of the 6 payloads that day. I can do any of the other bits, if cited interest leans that way in the next couple of weeks. The National Balloon Org idea is probably better suited as a round table discussion, since I have just a vague idea of how it would work - but I do suspect that ballonacy's getting big enough now to warrant some thought in that direction.

Re 144.3x time slotting: I think that a number of the groups are planning on using the 144.39 APRS backbone, which wouldn't QRM the 144.34 that a lot of us near urban areas have escaped to. I have no idea if the MIM can be slotted, but the KPC-3+ V8.3 can, as can the TinyTrak 3. In both cases, the slotting works best if intervals in sec are evenly divisible into 60. But 6 sec is a bit tight, especially if we want to try some EBBE on 144.34. 145.600 is another freq that's wide open around Denver, but 147.555 did bother the Skywarn folks near Manahattan; if that's gonna be a problem near Witchita, then I won't bother bringing our crossband payload; it's xtalled there and runs 100% duty.

Guess we need to get the various groups to start picking 2m APRS freqs and time slots. Recommend at least 10-sec intervals on each freq. Note also that some beacons can't be slotted, so those should probably occupy no more than 3 on a given freq, each with some non-integer fractional minute beacon rate to minimize QRM, eg, 52, 60 and 68 sec. I'll get the ball rolling on 144.34 with W5VSI-11 on 144.34 at slot :00 sec.

If the Hol Inn offers "convention" rates for an attractive discount, then that might be the best plan, Zack. Not sure how many of the nine EOSS members can pair up or how many are bringing XYLs. But put Rick N0KKZ and I each down for single, smoking rooms Thu, Fri and Sat for starters.

For the EOSS attendees: recommend you get on the GPSL yahoo-groups reflector. This will be the last time I re-post to the EOSS one.

Re He: EOSS will need about 1.5 K-bottles, and make sure they don't give you "balloon" He - it's cut with N2. Welding grade (99%) only.

Normally, EOSS brings a spare balloon and enough gas to fill 'em both, so it might be a good idea to have some extra on hand, if the supplier will refund untapped bottles. We'll pay you for each whole bottle we use on the spot, or would you need that $$$ in advance?

Also nice to have a bottle dolly, like a welding cart, on hand to help move the bottles out out each fill site.

Re launch site: that old airport sounds good - especially if we can get on a paved tarmac with vehicles. And it's probably well away from town, just in case there's a premature descent. Launching from an active airport can create headaches for pattern traffic.

73 de Mike W5VSI

> Zack Clobes wrote:
>
> First of all, let me say that I'm sorry for not keeping the website
> more up-to-date and better at responding to emails... but I have a
> good excuse (http://home.swbell.net/zclobes/).
>
> That out of the way, we still have several items up for discussion:
>
> PRESENTATIONS:
> The following is the list of possible presentations/presenters. I'm
> open to suggestions as to how many presentations we have, how long
> they last, and who presents.
>
> * Mark Caviezel, ES-OS, Zero pressure balloons
> * Tony Barrett, Sub 3-ounce tracking system
> * Bill, WB8ELK, PeaceStar
> * Paul Verhage, Cosmic Rays
> * Mike Manes, EOSS, Tracking -OR- FAA reporting -OR- Alliances with
> Space Grant Colleges -OR- national balloon organization
>
> TIME SLOTTING/FREQUENCY ALLOCATIONS:
> I've put together a rough outline of a definition of time-slotting at
> http://www.rckara.org/project_traveler/gpsl/time_slot.asp. I don't
> have any experience with the MIM modules or KPC-3+ config so if
> someone else would be willing to write a paragraph or two outlining
> the proper configuration, I'll post it to the site ASAP.
>
> We currently have approximately 7 balloons anticipating using
> 144.3xMHz for APRS position reporting. Dividing a minute by 10 brings
> us to slots of 6 seconds each, once per minute.
>
> I am not aware of any frequency congestion issues on 144.34MHz in the
> Hutchinson area, so I'd recommend using that unless someone feels
> strongly otherwise. I do have an I-Gate sitting in my basement
> available for use at GPSL - it can be changed to any 2m frequency.
>

> LODGING:
> It sounds like several people have been gravitating toward the Holiday
> Inn Express. I can't speak from personal experience, but I've never
> heard anything bad about the place and it's in a good location for the
> conference, food, easy to find, etc...
>
> HELIUM:
> I plan on calling tomorrow to confirm and, hopefully, get a firm
> price, but I've been told helium should be in the $45 per 240cu ft
> range.
>
> LAUNCH SITES:
> I have not made any contact with alternate launch sites at this
> point. I'm going to try calling the McPherson airport tomorrow to see
> if that would be an option. We also have an old military airbase
> about 15 miles S-SE of town that may be an option #3. I will try to
> post information soon with Lat/Lon and directions.
>
> Let me know if there's anything I'm missing - it's going to be here
> before we know it!!!!!!!!!
> Zack
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

672. Re: [GPSL] GPSL Preparations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 13:24:54 UTC
From: paul.verhage@boiseschools.org
Topic: 670 Message: 672

Thanks for your work. I'll need about 1.5 tanks to fill my balloon.

I'll arrive in Hutch on the 1st to help out.

Paul

673. K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 14:19:57 UTC
From: n9xtn@cox.net
Topic: 673 Message: 673

Zack,

Let's make sure everyone is clear on our tank orders. Are we getting K or T tanks? Since I normally fly close to 12 lbs, I generally empty a T tank (290 cu ft). K tanks appear to contain about 220 cu ft.

If everyone is planning to use about 290 cu ft, it may make more sense to order 1 T-tank per flight, plus 1-2 spares if we can return unopened tanks.

73 de Mark N9XTN

674. Re: [KNSP] GPSL spectating

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 14:59:14 UTC
From: paul.verhage@boiseschools.org
Topic: 674 Message: 674

> I was thinking about flying out from Pittsburgh to see this and
> hopefully learn a lot. Would anyone mind a newbie tagging along with
> a tracking team? And what problems do you think there would be to me
> bringing a handheld radio, GPS, and TinyTrack onboard the flight?

Not only would we not mind having a newbie, we'll put you to work getting balloons filled and launched!!

Paul

675. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 15:42:30 UTC
From: Zack Clobes
Topic: 673 Message: 675

Both sizes are available as follows:

K - 244cu ft runs $46 each
T - 291cu ft runs $60 each

They will allow us to return any unopened takes, so I will be sure to have a couple of spares on hand.

As for the quality (balloon vs. welding), it's coming from a welding supply shop. We've used them for the last two or three flights and our numbers match up very closely with WinLift's predictions.

We can "probably" borrow their cylinder dolly for the weekend if we ask really nice. I can probably produce another standard dolly or two also.

We do need to pay at the time of the pickup (Thursday or Friday). I will get payment details on the website soon.

Zack

n9xtn@... wrote:

>Zack,
>
>Let's make sure everyone is clear on our tank orders. Are we getting K or T tanks? Since I normally fly close to 12 lbs, I generally empty a T tank (290 cu ft). K tanks appear to contain about 220 cu ft.
>
>If everyone is planning to use about 290 cu ft, it may make more sense to order 1 T-tank per flight, plus 1-2 spares if we can return unopened tanks.
>
>73 de Mark N9XTN
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676. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 16:02:32 UTC
From: n9xtn@cox.net
Topic: 673 Message: 676

Have arrangements been made for tank transport (pickup from store, transport to launch site, return to store)? Hopefully we can avoid having to rent a truck for this or having everyone do it themselves, especially since those of us from out of town will likely be leaving before Monday morning.

- Mark

677. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 16:30:48 UTC
From: Zack Clobes
Topic: 673 Message: 677

I'm still working on that - I'm anticipating having a pickup or two available to haul tanks. I'll take care of returning the bottles on Monday morning.

Zack

n9xtn@... wrote:

>Have arrangements been made for tank transport (pickup from store, transport to launch site, return to store)? Hopefully we can avoid having to rent a truck for this or having everyone do it themselves, especially since those of us from out of town will likely be leaving before Monday morning.
>
>- Mark
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678. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-20 16:31:22 UTC
From: paul.verhage@boiseschools.org
Topic: 673 Message: 678

> Have arrangements been made for tank transport (pickup from store, transport to launch site, return to store)? Hopefully we can avoid having to rent a truck for this or having everyone do it themselves, especially since those of us from out of town will likely be leaving before Monday morning.

I might be able to carry a tank, but I'll need to leave after lunch on Saturday.

I've scheduled a visit to NSBF for July 6. Is anyone interested in going along?

Paul

679. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-22 01:42:55 UTC
From: Mike Manes
Topic: 673 Message: 679

Hi Mark & Zack,

Yeah, one T bottle will do for a full exempt load on a 1200 gram bag,
but it's sure a whole lot heavier to schlep around than a K bottle.
It's also less of a white-knuckle event to be able to see a fill
complete while there's still plenty of flow from the bottle!
If we have a bottle dolly and hard surface to run it on, then either
will do - the suppliers charge by SCF, I think.

73 de Mike W5VSI

n9xtn@... wrote:
>
> Zack,
>
> Let's make sure everyone is clear on our tank orders. Are we getting K or T tanks? Since I normally fly close to 12 lbs, I generally empty a T tank (290 cu ft). K tanks appear to contain about 220 cu ft.
>
> If everyone is planning to use about 290 cu ft, it may make more sense to order 1 T-tank per flight, plus 1-2 spares if we can return unopened tanks.
>
> 73 de Mark N9XTN
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

680. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-22 03:09:04 UTC
From: Mike Manes
Topic: 673 Message: 680

Hi Zack,

Zack Clobes wrote:
>
> Both sizes are available as follows:
>
> K - 244cu ft runs $46 each
> T - 291cu ft runs $60 each

Within a penny per CF - not a major issue. But if we need to crack
a T bottle to complete a fill, due to a leaky fill rig, e.g., that
counts for the price of a nice lunch!
>
> They will allow us to return any unopened takes, so I will be sure to
> have a couple of spares on hand.

Great!
>
> As for the quality (balloon vs. welding), it's coming from a welding
> supply shop. We've used them for the last two or three flights and our
> numbers match up very closely with WinLift's predictions.

OK - didn't intend to insult anyone's intelligence, but that did
happen to one of our groups a while back. Emptied both K bottles
into a 1200 gm and still way shy on excess lift despite a VERY large
bag!

> We can "probably" borrow their cylinder dolly for the weekend if we ask
> really nice. I can probably produce another standard dolly or two > also.

Yeah - a regular dolly with stout rope or chains works fine.

> We do need to pay at the time of the pickup (Thursday or Friday). I
> will get payment details on the website soon.

Do you have a PayPal account? EOSS does.

> Zack
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

681. Re: [GPSL] K or T tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-22 03:15:08 UTC
From: Mike Manes
Topic: 673 Message: 681

Hi Zack,

We learned the hard way at GPSL 2003 that a non-commercial truck
is permitted to carry no more than 7 compressed gas cylinders. Not
sure if that's a Colo or Fed rule, but might be good to check with the
gas supplier.

73 de Mike W5VSI

Zack Clobes wrote:
>
> I'm still working on that - I'm anticipating having a pickup or two
> available to haul tanks. I'll take care of returning the bottles on
> Monday morning.
>
> Zack
>
> n9xtn@... wrote:
>
> >Have arrangements been made for tank transport (pickup from store, transport to launch
site, return to store)? Hopefully we can avoid having to rent a truck for this or having
everyone do it themselves, especially since those of us from out of town will likely be
leaving before Monday morning.
> >
> >- Mark
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

682. Re: [KNSP] GPSL spectating

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-22 03:54:28 UTC
From: Mike Manes
Topic: 674 Message: 682

Hi Mike,

Shux, bring a balloon, too! More the merrier - there are already
nine, count 'em, on the docket, so one more won't bust the bank.
Helium will be on site if you buy it from Zack, and you can borrow
a fill rig if you don't have one already.

Recommend you get on the GPSL yahoo-groups reflector as well. That's
where we're posting to all the attending groups.

73 de Mike W5VSI, EOSS

upand_at_them wrote:
>
> I was thinking about flying out from Pittsburgh to see this and
> hopefully learn a lot. Would anyone mind a newbie tagging along with
> a tracking team? And what problems do you think there would be to me
> bringing a handheld radio, GPS, and TinyTrack onboard the flight?
>
> Mike
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

683. Sign me up

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-22 06:57:29 UTC
From: ka0jti
Topic: 683 Message: 683

Thanks,
KA0JTI

684. Press Release

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-26 21:03:57 UTC
From: paul.verhage@boiseschools.org
Topic: 684 Message: 684
Attachments: 2 described; binary payloads are missing from this source WARC

A day late and a dollar short, but here's the press release.

Please feel free to recommend changes.

Paul

685. Re: [GPSL] Press Release

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-27 03:24:03 UTC
From: Mike Manes
Topic: 684 Message: 685

Hi Paul,

Looks great.

Suggest that you add the locations and times for the
Friday conference and the Saturday superlaunch.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> A day late and a dollar short, but here's the press release.
>
> Please feel free to recommend changes.
>
> Paul
>
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> --
> The following section of this message contains a file attachment
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> If you are using Pegasus Mail, or any another MIME-compliant system,
> you should be able to save it or view it from within your mailer.
> If you cannot, please ask your system administrator for assistance.
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> ---- File information -----------
> File: Press Release.doc
> Date: 26 May 2004, 15:02
> Size: 21504 bytes.
> Type: Unknown
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> --
> Name: Press Release.doc
> Press Release.doc Type: Download File (application/msword)
> Encoding: BASE64

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.

Einstein

686. Re: [GPSL] Press Release

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-27 11:56:54 UTC
From: Ralph Wallio, W0RPK
Topic: 684 Message: 686

My 2.75-cents (energy costs are increasing rapidly):

Every high altitude balloon program and mission that I have heard of has used Amateur Radio links for TT&C (Tracking, Telemetry and Command). A very high percentage of individuals involved in high altitude ballooning are active in other aspects of Amateur Radio. Some of us have been active in several aspects of Amateur Radio for many decades.

Based on these arguments and my personal twist I suggest we call this stuff, "Amateur Radio High Altitude Ballooning". Paul likes the phrase, "amateur near space", which could be changed to, "Amateur Radio Near Space".

"Amateur Radio" should be capitalized.

"An amateur radio license is not required to participate." could be changed to, "An Amateur Radio license is not required to participate but Amateur Radio links are used for all tracking, telemetry and command links and payload recovery coordination.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

687. Re: [GPSL] Press Release

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-27 16:27:27 UTC
From: paul.verhage@boiseschools.org
Topic: 684 Message: 687
Attachments: 2 described; binary payloads are missing from this source WARC

Okay, I made Mike's and Ralph's recommended changes. Because of the changes, I combined two paragraphs.

I'm attaching the new press release. Please discard the previous one.

Again, please look for errors or make suggestions to tighten up the release or make it more clear.

Paul

688. Re: [GPSL] Press Release

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-27 18:49:02 UTC
From: Zack Clobes
Topic: 684 Message: 688

It looks good to me. I added my contact information and also the
specific building that we will be in at the Juco.

It's on the website and I will be distributing it to the local
newspaper. I assume that we also want to send it to the TV stations in
Wichita? Thoughts?

Zack

paul.verhage@... wrote:

>Okay, I made Mike's and Ralph's recommended changes. Because of the changes,
>I combined two paragraphs.
>
>I'm attaching the new press release. Please discard the previous one.
>
>
>Again, please look for errors or make suggestions to tighten up the release or make it
>more clear.
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>Paul
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>prepared for transmission using the Internet MIME message format.
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>you should be able to save it or view it from within your mailer.
>If you cannot, please ask your system administrator for assistance.
>
> ---- File information -----------
> File: Press Release.doc
> Date: 27 May 2004, 10:25
> Size: 22528 bytes.
> Type: Unknown
>

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689. Launch Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-27 22:16:36 UTC
From: Zack Clobes
Topic: 689 Message: 689

I still need to make some phone calls to finalize everything, but I'm 99% sure that these will be our potential launch sites. As Paul stated in the press release, the final decision will probably be made on Friday, 2 July during the conference.

http://www.rckara.org/project_traveler/gpsl/launch_sites.asp

Zack

690. Re: [GPSL] Launch Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-28 17:35:31 UTC
From: Mike Manes
Topic: 689 Message: 690

Hi Zack,

Good idea. By that time, we should have a pretty good handle on the forecast trajectory so we can plan a launch site that won't land us downtown somewhere. BTW, who's on tap to run the forecast? Rick N0KKZ did that at the '02 GPSL, but he'll need an I'net access point.

Any news re possible group discount rooms in Hutchinson? The EOSS contingent is now at 9 members + some XYL's.

And what's the gouge on tickets, hours, etc at the CosmoDrome (sic?); some of our group would like to visit there Sat PM or Sun AM.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:
>
> I still need to make some phone calls to finalize everything, but I'm
> 99% sure that these will be our potential launch sites. As Paul stated
> in the press release, the final decision will probably be made on
> Friday, 2 July during the conference.
>
> http://www.rckara.org/project_traveler/gpsl/launch_sites.asp
>
> Zack
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

691. GPSL Presentations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-29 19:12:52 UTC
From: Mark Conner
Topic: 691 Message: 691

Will there be time for each group to take about 15 minutes to
present highlights and lessons learned in the past year or two?
I think it would be good to present both notable achievements and
also to illustrate any failures so we all can learn from them.

Also, what's planned for A/V equipment?

73 de Mark N9XTN

692. Re: [GPSL] Launch Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-30 14:02:23 UTC
From: Zack Clobes
Topic: 689 Message: 692

I've called Holiday Inn Express regarding a group discount, but the manager is out until Tuesday. I will try back then.

So far, I think everyone has been migrating toward the Holiday Inn - just guessing but it's probably best bang for the buck.

Mike Manes wrote:

>Hi Zack,
>
>Good idea. By that time, we should have a pretty good handle on the
>forecast trajectory so we can plan a launch site that won't land us
>downtown somewhere. BTW, who's on tap to run the forecast? Rick
>N0KKZ did that at the '02 GPSL, but he'll need an I'net access point.
>
>Any news re possible group discount rooms in Hutchinson? The EOSS
>contingent is now at 9 members + some XYL's.
>
>And what's the gouge on tickets, hours, etc at the CosmoDrome (sic?);
>some of our group would like to visit there Sat PM or Sun AM.
>
>73 de Mike W5VSI, EOSS
>
>Zack Clobes wrote:
>
>
>>I still need to make some phone calls to finalize everything, but I'm
>>99% sure that these will be our potential launch sites. As Paul stated
>>in the press release, the final decision will probably be made on
>>Friday, 2 July during the conference.
>>
>>http://www.rckara.org/project_traveler/gpsl/launch_sites.asp
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>>Zack
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693. Re: [GPSL] Launch Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-05-31 03:04:24 UTC
From: Mike Manes
Topic: 689 Message: 693

Hi Zack,

Well, not everyone, it seems. Benjie W0CBH seems to have booked
rooms at the EconoLodge, and I'm waiting to hear from him RE group
rates before I book. With the crowd coming to GPSL, we may need more
than one motel in any event. Any idea of the total attendance so far?
(EOSS has 9 plus some XYLs so far).

73 de Mike W5VSI

Zack Clobes wrote:
>
> I've called Holiday Inn Express regarding a group discount, but the
> manager is out until Tuesday. I will try back then.
>
> So far, I think everyone has been migrating toward the Holiday Inn -
> just guessing but it's probably best bang for the buck.
>
> Mike Manes wrote:
>
> >Hi Zack,
> >
> >Good idea. By that time, we should have a pretty good handle on the
> >forecast trajectory so we can plan a launch site that won't land us
> >downtown somewhere. BTW, who's on tap to run the forecast? Rick
> >N0KKZ did that at the '02 GPSL, but he'll need an I'net access point.
> >
> >Any news re possible group discount rooms in Hutchinson? The EOSS
> >contingent is now at 9 members + some XYL's.
> >
> >And what's the gouge on tickets, hours, etc at the CosmoDrome (sic?);
> >some of our group would like to visit there Sat PM or Sun AM.
> >
> >73 de Mike W5VSI, EOSS
> >
> >Zack Clobes wrote:
> >
> >
> >>I still need to make some phone calls to finalize everything, but I'm
> >>99% sure that these will be our potential launch sites. As Paul stated
> >>in the press release, the final decision will probably be made on
> >>Friday, 2 July during the conference.
> >>
> >>http://www.rckara.org/project_traveler/gpsl/launch_sites.asp
> >>
> >>Zack

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

694. GPSL Update

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-01 02:26:53 UTC
From: Zack Clobes
Topic: 694 Message: 694

I've made some semi-significant modifications to the Itinerary. Please review these ASAP.

To sum up the changes, I've moved all presentations to 1 hour (preferably slightly less so that we can have time to stretch) in length since there wasn't much discussion as to who should get cut. Per Mark's request, I've also left the afternoon open for any groups that wish to come forward and outline their happenings.

http://www.rckara.org/project_traveler/gpsl/itenerary.asp

IF YOU ARE SIGNED UP AS A PRESENTER, PLEASE CONTACT ME ASAP WITH THE FOLLOWING INFORMATION:
1. Your full name as you want to be introduced and posted on the website.
2. Your callsign.
3. Your group's callsign - the one you normally fly.
4. Your group.
5. Your hometown
6. A one paragraph (or so) outline of what you will be talking about for me to put on the website/schedule.
7. What specific tools you will need to give the presentation (projectors, computers, software, laptops, VCR's, DVD's, etc, etc ,etc)
8. A time estimate of when you will have your presentation prepared and submitted to myself. I need all presentations at least a week ahead of time to have them available on the projector's computer.

695. Helium order form

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-01 02:31:38 UTC
From: Zack Clobes
Topic: 695 Message: 695

There is now a helium order form on the GPSL website. Please complete the form and return to me with a check for the gas.

http://www.rckara.org/project_traveler/gpsl/

Zack

696. Re: [GPSL] GPSL Presentations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-01 02:35:34 UTC
From: Zack Clobes
Topic: 691 Message: 696

I think this is a great idea and have added it to the itinerary. It's
at the end of the day, so we can be somewhat flexible in terms of timing.

As I understand it, it's a pretty nice and modern room. They have all
of the standard power point, VCR, DVD, web, etc. Apparently, they also
have a video camera hooked to the projector to facilitate showing of
small objects, printed materials, etc.

Zack

Mark Conner wrote:

>Will there be time for each group to take about 15 minutes to
>present highlights and lessons learned in the past year or two?
>I think it would be good to present both notable achievements and
>also to illustrate any failures so we all can learn from them.
>
>Also, what's planned for A/V equipment?
>
>73 de Mark N9XTN
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>Yahoo! Groups Links
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697. Re: [GPSL] Launch Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-01 13:36:33 UTC
From: paul.verhage@boiseschools.org
Topic: 689 Message: 697

Is anyone looking to split a room? I figure we can save by splitting the cost of a double.

Paul

> I've called Holiday Inn Express regarding a group discount, but the
> manager is out until Tuesday. I will try back then.
>
> So far, I think everyone has been migrating toward the Holiday Inn -
> just guessing but it's probably best bang for the buck.
>
> Mike Manes wrote:
>
> >Hi Zack,
> >
> >Good idea. By that time, we should have a pretty good handle on the
> >forecast trajectory so we can plan a launch site that won't land us
> >downtown somewhere. BTW, who's on tap to run the forecast? Rick
> >N0KKZ did that at the '02 GPSL, but he'll need an I'net access point.
> >
> >Any news re possible group discount rooms in Hutchinson? The EOSS
> >contingent is now at 9 members + some XYL's.
> >
> >And what's the gouge on tickets, hours, etc at the CosmoDrome (sic?);
> >some of our group would like to visit there Sat PM or Sun AM.
> >
> >73 de Mike W5VSI, EOSS
> >
> >Zack Clobes wrote:
> >
> >
> >>I still need to make some phone calls to finalize everything, but I'm
> >>99% sure that these will be our potential launch sites. As Paul stated
> >>in the press release, the final decision will probably be made on
> >>Friday, 2 July during the conference.
> >>
> >>http://www.rckara.org/project_traveler/gpsl/launch_sites.asp
> >>
> >>Zack
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> >>Yahoo! Groups Links
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698. Re: [GPSL] GPSL Update

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-01 14:02:42 UTC
From: paul.verhage@boiseschools.org
Topic: 694 Message: 698
Attachments: 2 described; binary payloads are missing from this source WARC

> I've made some semi-significant modifications to the Itinerary. Please review these ASAP.
>
> To sum up the changes, I've moved all presentations to 1 hour (preferably slightly less so that we
> can have time to stretch) in length since there wasn't much discussion as to who should get cut.
> Per Mark's request, I've also left the afternoon open for any groups that wish to come forward and
> outline their happenings.
>
> http://www.rckara.org/project_traveler/gpsl/itenerary.asp
>
>
> IF YOU ARE SIGNED UP AS A PRESENTER, PLEASE CONTACT ME ASAP WITH THE
> FOLLOWING INFORMATION:
> 1. Your full name as you want to be introduced and posted on the website.
> 2. Your callsign.
> 3. Your group's callsign - the one you normally fly.
> 4. Your group.
> 5. Your hometown
> 6. A one paragraph (or so) outline of what you will be talking about for me to put on the
> website/schedule.
> 7. What specific tools you will need to give the presentation (projectors, computers, software,
> laptops, VCR's, DVD's, etc, etc ,etc)
> 8. A time estimate of when you will have your presentation prepared and submitted to myself. I
> need all presentations at least a week ahead of time to have them available on the projector's
> computer.
>

Zack, here's my information. I will try to email the presentation out when I get back on the 19th. Since I'm using my own laptop, I'll bring a copy of my presentation on it.

Paul

699. Re: [GPSL] Helium order form

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-01 14:04:52 UTC
From: paul.verhage@boiseschools.org
Topic: 695 Message: 699

> There is now a helium order form on the GPSL website. Please complete
> the form and return to me with a check for the gas.

Zack, I need to pay through a credit card. Can you give me the phone number to your distributor so I can call them?

Paul

700. Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 01:36:47 UTC
From: Zack Clobes
Topic: 700 Message: 700

I've assigned time slots to all of the payloads planning on operating on 144.34MHz (with the exception of Paul). Any packages that are not configurable as outlined should be moved to 144.39MHz.

Each payload has a full 10 seconds of time to transmit its data which should be more than enough to fit as many as 8-10 packets per minute.

Any thoughts on the chase frequencies? Pete used 146.49 yesterday with success. As far as I'm concerned, we could also move to 440MHz. Will all of the chase teams have 440 equipment with them?

701. Base station for GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 01:47:19 UTC
From: Zack Clobes
Topic: 701 Message: 701

I have arrangements made with the Cosmosphere to have a station in the lobby area for tracking. The building doesn't open until 9:00am be we can have it setup on Friday evening.

QUESTION: Do we want this base station?

Is there anyone willing to stay behind and run this? I think I can come up with a piece of tower and some antennas. I may even be able to come up with an APRS setup, a computer, and Internet access (No promises on these).

But it comes back to, does anyone want this and will anyone be willing to man it?

Zack

702. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 12:19:58 UTC
From: Mark Conner
Topic: 700 Message: 702

I would definitely suggest 70cm for a chase freq. TXing 2-3 MHz up at 146 or 147 MHz will desense data reception of 144.3x.

- Mark

> Any thoughts on the chase frequencies? Pete used 146.49 yesterday with
> success. As far as I'm concerned, we could also move to 440MHz. Will
> all of the chase teams have 440 equipment with them?
>
>

703. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 13:31:56 UTC
From: paul.verhage@boiseschools.org
Topic: 700 Message: 703

I'll play around with my capsule's radio before heading out to GPSL. I'll lock the frequency to 144.34. I can also play around with my TT3 and time slot it.

I'll bring a 440 HT with me, also.

Paul

704. Helium order

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 21:23:28 UTC
From: n9xtn@cox.net
Topic: 704 Message: 704

Zack,

Are we still planning to get a couple of "extra" tanks in case we have a burst, and that we can pay for those at the time if needed?

Also, for the group as a whole - anyone had problems ordering balloons (out of stock, etc.) from either Kaysam or Kaymont? I've heard some discussion to that effect, but no details. I need to order from one place or the other this month.

73 de Mark N9XTN

705. Re: [GPSL] Helium order

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 22:03:39 UTC
From: Zack Clobes
Topic: 704 Message: 705

Yes, I will take care of supplying a couple of extra tanks.

As for balloons, I haven't ordered any in a while - couldn't tell you.

Zack

n9xtn@... wrote:

>Zack,
>
>Are we still planning to get a couple of "extra" tanks in case we have a burst, and that we can pay for those at the time if needed?
>
>Also, for the group as a whole - anyone had problems ordering balloons (out of stock, etc.) from either Kaysam or Kaymont? I've heard some discussion to that effect, but no details. I need to order from one place or the other this month.
>
>73 de Mark N9XTN
>
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>Yahoo! Groups Links
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706. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 22:18:06 UTC
From: Mike Manes
Topic: 700 Message: 706

Hi Zack,

I think 10-sec slots would be OK, but it'll only accomodate 6 beacons.
It might not be bad to go to 2-minute beacon intervals if we end up
with over 6 tho. It's important that the slots (in seconds) be evenly
divisble into 60 to ensure a quick sync-up of TT3 beacons.

Slotting the KPC-3+ is a bit dicier, since you must specify a START
time which must be after the GPS syncs up but before launch. This
can be programmed after the payload is buttoned up thru the remote
sysop mode or via the serial port.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:
>
> I've assigned time slots to all of the payloads planning on operating on
> 144.34MHz (with the exception of Paul). Any packages that are not
> configurable as outlined should be moved to 144.39MHz.
>
> Each payload has a full 10 seconds of time to transmit its data which
> should be more than enough to fit as many as 8-10 packets per minute.
>
> Any thoughts on the chase frequencies? Pete used 146.49 yesterday with
> success. As far as I'm concerned, we could also move to 440MHz. Will
> all of the chase teams have 440 equipment with them?
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

707. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-02 22:50:30 UTC
From: Mark Conner
Topic: 700 Message: 707

I don't think the KPC-3+ is that picky. If you want a beacon
every minute at 20 seconds past the minute, you just specify

BLT n EVERY 00:01:00 START 00:00:20

I used to do something similar when I ran a 3+ in my car for a
tracker - worked fine after power was cycled with or without GPS.

I'd rather stick to 1 beacon per minute if at all possible, and
reduce the allowed interval.

- Mark

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 02, 2004 17:18
Subject: Re: [GPSL] Time Slotting

> Hi Zack,
>
> I think 10-sec slots would be OK, but it'll only accomodate 6
beacons.
> It might not be bad to go to 2-minute beacon intervals if we
end up
> with over 6 tho. It's important that the slots (in seconds) be
evenly
> divisble into 60 to ensure a quick sync-up of TT3 beacons.
>
> Slotting the KPC-3+ is a bit dicier, since you must specify a
START
> time which must be after the GPS syncs up but before launch.
This
> can be programmed after the payload is buttoned up thru the
remote
> sysop mode or via the serial port.
>
> 73 de Mike W5VSI, EOSS
>
> Zack Clobes wrote:
> >
> > I've assigned time slots to all of the payloads planning on
operating on
> > 144.34MHz (with the exception of Paul). Any packages that
are not
> > configurable as outlined should be moved to 144.39MHz.

> >
> > Each payload has a full 10 seconds of time to transmit its
data which
> > should be more than enough to fit as many as 8-10 packets per
minute.
> >
> > Any thoughts on the chase frequencies? Pete used 146.49
yesterday with
> > success. As far as I'm concerned, we could also move to
440MHz. Will
> > all of the chase teams have 440 equipment with them?
>

708. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 01:06:25 UTC
From: Zack Clobes
Topic: 700 Message: 708

I know that I personally would rather not go to two minute intervals - that's a long time not to hear from your investment.. :-)

As far as the timing, we could easily go to six second slots to give us 10 which should be more than enough. The only problem that I see with that is if you avoid the first and last second, that only gives you four seconds to get everything out the door.

Zack

Mike Manes wrote:

Hi Zack,

I think 10-sec slots would be OK, but it'll only accomodate 6 beacons.
It might not be bad to go to 2-minute beacon intervals if we end up
with over 6 tho. It's important that the slots (in seconds) be evenly
divisble into 60 to ensure a quick sync-up of TT3 beacons.

Slotting the KPC-3+ is a bit dicier, since you must specify a START
time which must be after the GPS syncs up but before launch. This
can be programmed after the payload is buttoned up thru the remote
sysop mode or via the serial port.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:

I've assigned time slots to all of the payloads planning on operating on
144.34MHz (with the exception of Paul). Any packages that are not
configurable as outlined should be moved to 144.39MHz.

Each payload has a full 10 seconds of time to transmit its data which
should be more than enough to fit as many as 8-10 packets per minute.

Any thoughts on the chase frequencies? Pete used 146.49 yesterday with
success. As far as I'm concerned, we could also move to 440MHz. Will
all of the chase teams have 440 equipment with them?

Yahoo! Groups Links

709. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 01:07:20 UTC
From: Zack Clobes
Topic: 700 Message: 709

So are you thinking that you WILL be able to time-slot your 144.34MHz transmissions?

Zack

paul.verhage@... wrote:

>I'll play around with my capsule's radio before heading out to GPSL. I'll lock the
>frequency to 144.34. I can also play around with my TT3 and time slot it.
>
>I'll bring a 440 HT with me, also.
>
>Paul
>
>
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>Yahoo! Groups Links
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710. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 01:20:15 UTC
From: Mike Manes
Topic: 700 Message: 710

Are there any repeaters out thataway which could be pressed into service for GPSL? Even if we all stay inside simplex range, the repeater would yield some nice PR for ballooning in the local ham community. It's a good idea to get the trustee's OK in advance, however.

73 de Mike W5VSI

Mark Conner wrote:
>
> I would definitely suggest 70cm for a chase freq. TXing 2-3 MHz
> up at 146 or 147 MHz will desense data reception of 144.3x.
>
> - Mark
>
> > Any thoughts on the chase frequencies? Pete used 146.49
> yesterday with
> > success. As far as I'm concerned, we could also move to
> 440MHz. Will
> > all of the chase teams have 440 equipment with them?
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

711. GPS Time Slotting Note

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 03:59:55 UTC
From: mgray@ess-us.com
Topic: 700 Message: 711

One other note to keep in mind. Are you time slotting based on GPS or UTC time? UTC is corrected for leap seconds. As of June 2, 2004, it is 13 seconds behind GPS time.

712. Re: [GPSL] Helium order

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 13:39:00 UTC
From: paul.verhage@boiseschools.org
Topic: 704 Message: 712

> Also, for the group as a whole - anyone had problems ordering balloons (out of stock, etc.) from either Kaysam or Kaymont? I've heard some discussion to that effect, but no details. I need to order from one place or the other this month.

I called Kaysam for a 1500 grammer and they said they'd send it out. So apparently no problems there.

Paul

713. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 13:41:23 UTC
From: paul.verhage@boiseschools.org
Topic: 700 Message: 713

> So are you thinking that you WILL be able to time-slot your 144.34MHz
> transmissions?

I'm using a TT3. I haven't played with it for a while, but as I recall, I can do it.

Paul

714. Re: [GPSL] GPS Time Slotting Note

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 13:52:21 UTC
From: Mark Conner
Topic: 700 Message: 714

Don't most GPS units provide UTC as a default? I think I have to
go to a lot of work to my my Garmin or Motorola unit report the
uncorrected time.

UTC should be the time base.

- Mark

----- Original Message -----
From: <mgray@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 02, 2004 22:59
Subject: [GPSL] GPS Time Slotting Note

> One other note to keep in mind. Are you time slotting based on
GPS or UTC
> time? UTC is corrected for leap seconds. As of June 2, 2004,
it is 13
> seconds behind GPS time.
>
>

715. Re: [GPSL] Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 12:10:45 UTC
From: Don Pfister
Topic: 700 Message: 715

Hi everyone, I finally turned in my vacation request yesterday to attend GPSL 2004. I requested time off for Friday too. IF it is approved I should be there.

I plan to launch on Saturday either way.

I can time slot.

I'll get my payload worked out and get forms filled out as soon as I can.

73
Don

Zack Clobes wrote:

> So are you thinking that you WILL be able to time-slot your 144.34MHz
> transmissions?
>
> Zack
>

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors
Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

716. Re: [GPSL] GPS Time Slotting Note

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 04:17:54 UTC
From: Mike Manes
Topic: 700 Message: 716

Hi Mike,

The TT3 real time is drawn from the hhmmss field of the GPS NMEA
sentence. My KPC-3 is set up to sync its DAYtime value with the
$GPRMC hhmmss and date strings. So I guess we're looking at GPS
time vice UTC.

73 de Mike W5VSI

mgray@... wrote:
>
> One other note to keep in mind. Are you time slotting based on GPS or UTC
> time? UTC is corrected for leap seconds. As of June 2, 2004, it is 13
> seconds behind GPS time.
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

717. Re: [GPSL] GPS Time Slotting Note

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 17:01:07 UTC
From: mgray@ess-us.com
Topic: 700 Message: 717

Yes, units typically default to UTC. Most held units have it is as option
buried somewhere in their menus.

When cold starting a GPS engine, it won't have the UTC correction factor
and it may take up to 12 minutes to get the value. The UTC correction is
one of the sub-frames in the Almanac data stream.

On Thu, 3 Jun 2004, Mark Conner wrote:

> Don't most GPS units provide UTC as a default? I think I have to
> go to a lot of work to my my Garmin or Motorola unit report the
> uncorrected time.
>
> UTC should be the time base.
>
> - Mark
>
>
> ----- Original Message -----
> From: <mgray@...>
> To: <GPSL@yahoogroups.com>
> Sent: Wednesday, June 02, 2004 22:59
> Subject: [GPSL] GPS Time Slotting Note
>
>
> > One other note to keep in mind. Are you time slotting based on
> GPS or UTC
> > time? UTC is corrected for leap seconds. As of June 2, 2004,
> it is 13
> > seconds behind GPS time.
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718. Re: [GPSL] GPS Time Slotting Note

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 19:05:14 UTC
From: Mike Manes
Topic: 700 Message: 718

Hi Mark,

Having pored over the dox for the Rockwell Jupiter that EOSS uses,
I see the distinction between GPS and UTC. In fact the hhmmss field
in the NMEA is UTC; GPS time is expressed as a single (large!) integer
value in seconds since the "epoch". I've checked the reported NMEA
times against my WWVL clock, and they match to the second.

73 de Mike W5VSI

Mark Conner wrote:
>
> Don't most GPS units provide UTC as a default? I think I have to
> go to a lot of work to my my Garmin or Motorola unit report the
> uncorrected time.
>
> UTC should be the time base.
>
> - Mark
>
> ----- Original Message -----
> From: <mgray@...>
> To: <GPSL@yahoogroups.com>
> Sent: Wednesday, June 02, 2004 22:59
> Subject: [GPSL] GPS Time Slotting Note
>
> > One other note to keep in mind. Are you time slotting based on
> GPS or UTC
> > time? UTC is corrected for leap seconds. As of June 2, 2004,
> it is 13
> > seconds behind GPS time.
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

719. Re: [GPSL] GPS Time Slotting Note

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-03 21:51:13 UTC
From: Zack Clobes
Topic: 700 Message: 719

I've had the same experience with my Garmin GPS-35 - it matches my wall clock and WWV.

Zack

Mike Manes wrote:

>Hi Mark,
>
>Having pored over the dox for the Rockwell Jupiter that EOSS uses,
>I see the distinction between GPS and UTC. In fact the hhmmss field
>in the NMEA is UTC; GPS time is expressed as a single (large!) integer
>value in seconds since the "epoch". I've checked the reported NMEA
>times against my WWVL clock, and they match to the second.
>
>73 de Mike W5VSI
>
>Mark Conner wrote:
>
>
>>Don't most GPS units provide UTC as a default? I think I have to
>>go to a lot of work to my my Garmin or Motorola unit report the
>>uncorrected time.
>>
>>UTC should be the time base.
>>
>>- Mark
>>
>>----- Original Message -----
>>From: <mgray@...>
>>To: <GPSL@yahoogroups.com>
>>Sent: Wednesday, June 02, 2004 22:59
>>Subject: [GPSL] GPS Time Slotting Note
>>
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>>
>>>One other note to keep in mind. Are you time slotting based on
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>>GPS or UTC
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>>>time? UTC is corrected for leap seconds. As of June 2, 2004,
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>>it is 13

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>>>seconds behind GPS time.
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720. Re: [GPSL] Base station for GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-07 02:45:16 UTC
From: Zack Clobes
Topic: 701 Message: 720

I haven't seen any discussion on this. Should I assume that no one is interested?

Zack

Zack Clobes wrote:

>I have arrangements made with the Cosmosphere to have a station in the
>lobby area for tracking. The building doesn't open until 9:00am be we
>can have it setup on Friday evening.
>
>QUESTION: Do we want this base station?
>
>Is there anyone willing to stay behind and run this? I think I can come
>up with a piece of tower and some antennas. I may even be able to come
>up with an APRS setup, a computer, and Internet access (No promises on
>these).
>
>But it comes back to, does anyone want this and will anyone be willing
>to man it?
>
>Zack
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>Yahoo! Groups Links
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721. Re: [GPSL] Base station for GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-07 03:59:59 UTC
From: Don Pfister
Topic: 701 Message: 721

Zack this week is meeting week (almost all groups seem to meet the second week of the month). I have a couple of people in mind, I'll ask them. I won't see one of them until Wed. night.

73
Don KA0JLF
HABITAT SkyLab
http://groups.yahoo.com/group/HABITAT_SkyLab/

Zack Clobes wrote:

> I haven't seen any discussion on this. Should I assume that no one is
> interested?
>
> Zack
>
> Zack Clobes wrote:
>
> >I have arrangements made with the Cosmosphere to have a station in the
> >lobby area for tracking. The building doesn't open until 9:00am be we
> >can have it setup on Friday evening.
> >
> >QUESTION: Do we want this base station?
> >
> >Is there anyone willing to stay behind and run this? I think I can come
> >up with a piece of tower and some antennas. I may even be able to come
> >up with an APRS setup, a computer, and Internet access (No promises on
> >these).
> >
> >But it comes back to, does anyone want this and will anyone be willing
> >to man it?
> >
> >Zack

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors
Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

http://habitat.netlab.org

722. Re: Balloon Experiments and Endeavors

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-08 21:08:54 UTC
From: Mike Manes
Topic: 722 Message: 722

Hi Pat,

I'd be delighted to chat with you about our little balloon group out here in Colorado, Edge of Space Sciences, and invite to browse thru our web site, www.eoss.org at your leisure. I'm (semi) retired and you can reach me darn near nay time via email or landline at 303-979-4899.

EOSS has been actively supporting NASA Space Grant Consortium balloon-borne experiments for colleges since 2000, thru the good graces of Chris Koehler, interim director of the Colorado Space Grant Consortium. I've cc'ed him on this reply.

There's another amateur balloon group in the DC area, the Loudin County (VA) ARC (?) which has flown a few times in the past couple of years. Ralph Wallio W0RPK, cc'ed above, no doubt can get you contact info.

And there's also a convocation of at least ten balloon groups gathering in Hutchinson KS 2-5 July 04 for a conference and mass launch; it's the 4th Great Plains Super Launch (GPSL '04), and there's a link to the GPSL web site on the eoss.org home page.

Finally, the grandaddy of all this this balloonacy stuff, in the US anyway, is Bill Brown WB8ELK, also cc'ed, who works for NASA out of Redstone Arsenal, I think. Bill's planning on being at GPSL.

Unmanned ballooning from the east coast does present some interesting recovery challenges not avaliable to us who land in the wide-open spaces of the Colorado eastern plains. I think you'll find the challenge most interesting!

73 de Mike Manes W5VSI
Prez, EOSS

Pat Kilroy wrote:
>
> Dear Mike Manes,
>
> We found your name on an amateur ballooning web page.
>
> Do you have some time for one of us to call you on the
> telephone and interview you about your balloon endeavors?
>
> We'd be glad to tell you about our new balloon group
> (SimSat) in Maryland/Virginia. The focus, however, will
> be to find out about "fellow" balloon experimenters and

> groups. The info may or may not find its way to a
> web-published news article.
>
> On the technical side, one question we'd like to ask is
> if you use the MIM module for GPS or experiment telemetry,
> or if you use something else. And if using the MIM, what
> you might be planning to use in its place now that we
> hear that the MIM module is out of production.
>
> What daytime phone number can we use between now and
> this coming Monday to reach you?
>
> Thank you very much,
>
> Pat
> N8PK
> SimSat
>
> and student intern, Scott Burger.
>
> ==
> Patrick L. Kilroy WK
> Integration & Test (I&T) Manager 301-286-1984 voice
> NASA Goddard Space Flight Center 301-286-1673 fax
> Building 5, Mail Code 568 Patrick.L.Kilroy@...
> Greenbelt, Maryland 20771 http://simsat.gsfc.nasa.gov
> ==
>
> Find me <http://www.findu.com/cgi-bin/find.cgi?call=n8pk-9&radar=***>
>
> Inspiring the next generation of explorers ... as only NASA can.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

723. Conference Rates at the Hotels

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-10 22:33:14 UTC
From: Zack Clobes
Topic: 723 Message: 723

I finally got the lady with Holiday Inn/Microtel to call me back. Short answer is no, they don't have any special rates available. Apparently there are some other groups in town over the weekend and they are nearing capacity. She indicated that they had about 10 rooms left in each hotel.

I think you could save a few bucks by taking the Super 8 just down the road, however as of a few months ago, they didn't have high-speed Internet available.

Zack

724. Presentations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-10 22:34:57 UTC
From: Zack Clobes
Topic: 724 Message: 724

I have only heard back from one of the presenters regarding their presentation.

If I don't hear from more of you soon, it's going to make for a very short day on Friday!!!

725. Radio booth at Cosmosphere

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-10 22:36:11 UTC
From: Zack Clobes
Topic: 725 Message: 725

Unless I hear some commitments this evening, I'm going to cancel our reservations at the Cosmosphere for the radio/tracking booth.

Let me know,
Zack

726. Re: [GPSL] Radio booth at Cosmosphere

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-11 03:27:35 UTC
From: Don Pfister
Topic: 725 Message: 726

Zack Clobes wrote:

> Unless I hear some commitments this evening, I'm going to cancel our
> reservations at the Cosmosphere for the radio/tracking booth.
>
> Let me know,
> Zack

Zack, I did get you at least one and possibly two operators. I've been trying to send you an email but stuff has been happening. I finally had to reboot.

I'll send you more email direct.

I'm not sure we are going to get our balloon off on Sunday.

73
Don KA0JLF

727. base frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-12 18:58:44 UTC
From: Chris Krengel
Topic: 727 Message: 727

Is there going to be a frequency/ repeater that we will use as a base
so that we all can coordinate with each other when we get into town?
(or did I miss that)
Chris Krengel
KB0YRZ

728. Re: [GPSL] base frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-14 02:28:51 UTC
From: Zack Clobes
Topic: 727 Message: 728

I will try to get a frequency coordination page posted to the website.

At this point, I'm figuring on the following frequencies:
Local repeater: 147.12+ -- Good within Hutch plus 15 miles
Long range repeater: 146.82- -- Good within Hutch plus 60 miles (this repeater is owned by the Wichita club, and we will be using this as a secondary repeater)
Simplex Frequency on chase: 146.49 -- All chase communication on Saturday <--- we may want to go 440MHz if available
APRS data: 144.34 -- Only for time-slotted transmitters

Zack

Chris Krengel wrote:

>Is there going to be a frequency/ repeater that we will use as a base
>so that we all can coordinate with each other when we get into town?
>(or did I miss that)
>Chris Krengel
>KB0YRZ
>
>
>
>
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>
>Yahoo! Groups Links
>
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>
>

729. [Fwd: Returned mail: delivery problems encountered]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-14 03:47:16 UTC
From: Mike Manes
Topic: 729 Message: 729

```
Let's see if this works ... de Mike W5VSI

Mail Delivery Subsystem wrote:
>
> A message (from <manes@...>) was received at 13 Jun 2004 23:25:23 +0000.
>
> The following addresses had delivery problems:
>
> <zclobes@...>
> Permanent Failure: Other address status
> Delivery last attempted at Sun, 13 Jun 2004 23:25:48 -0000
>
> ------------------------------------------------------------------------
> Reporting-MTA: dns; prserv.net
> Arrival-Date: 13 Jun 2004 23:25:23 +0000
>
> Final-Recipient: rfc822; <zclobes@...>
> Action: failed
> Status: 5.1.0 MAIL FROM: <manes@...> 553 REPLY: 553 5.3.0 mtaw1 DNSBL:To request removal
of,[32.97.166.32],send the complete error message in an E-mail to removeme@...
> Diagnostic-Code: smtp; Permanent Failure: Other address status
> Last-Attempt-Date: Sun, 13 Jun 2004 23:25:48 -0000
>
> ------------------------------------------------------------------------
>
> Subject: [Fwd: Returned mail: delivery problems encountered]
> Date: Sun, 13 Jun 2004 16:44:44 -0600
> From: Mike Manes <manes@...>
> To: Zack Clobes W0CZ - Hutchinson <zclobes@...>
>
> Hmmm ... new email address, Zack? 73 de Mike W5VSI
>
> Mail Delivery Subsystem wrote:
> >
> > A message (from <manes@...>) was received at 12 Jun 2004 3:09:23 +0000.
> >
> > The following addresses had delivery problems:
> >
> > <zclobes@...>
> > Permanent Failure: Other address status
> > Delivery last attempted at Sat, 12 Jun 2004 03:09:25 -0000
> >
> > ------------------------------------------------------------------------
> > Reporting-MTA: dns; prserv.net
> > Arrival-Date: 12 Jun 2004 3:09:23 +0000
```

> >
> > Final-Recipient: rfc822; <zclobes@...>
> > Action: failed
> > Status: 5.1.0 MAIL FROM: <manes@...> 553 REPLY: 553 5.3.0 ylpvm31,DNSBL:To request removal of, 32.97.166.34, send the complete error message in an E-mail to removeme@...
> > Diagnostic-Code: smtp; Permanent Failure: Other address status
> > Last-Attempt-Date: Sat, 12 Jun 2004 03:09:25 -0000
> >
> > ---
> >
> > Subject: Re: [KNSP] Mid-week launch for NSTAR 04-E
> > Date: Fri, 11 Jun 2004 20:56:55 -0600
> > From: Mike Manes <manes@...>
> > To: mconner@...
> > CC: Marty Griffin WA0GEH <mgriffin@...>,
> > Zack Clobes W0CZ - Hutchinson <zclobes@...>
> > References: <4e83348b8a.48b8a4e833@...>
> >
> > I hope I can make that course effortless for the GPSL gang. Chris
> > Koehler knows of a web site that has email links to all the Space
> > Grant directors. I'll prenst that and some tips on working with them
> > at GPSL, if Zack gives me a few minutes after Marty's pitch.
> >
> > 73 de Mike W5VSI, EOSS
> >
> > mconner@... wrote:
> > >
> > > The way I found the UNO professor was to look for area universities that participated in the NASA program, then with some Google searching I got a contact name/number.
> > >
> > > - Mark
> > >
> > > ----- Original Message -----
> > > From: Mike Manes <manes@...>
> > > Date: Thursday, June 10, 2004 11:42 am
> > > Subject: Re: [KNSP] Mid-week launch for NSTAR 04-E
> > >
> > > > Hi MArk,
> > > >
> > > > One of the topics I'd like to discuss at GPSL is how to make your
> > > > balloon group known to local NASA space grant colleges. Some
> > > > colleges, like Mt State, UTx, UCSD etc, fund their own in-house
> > > > balloon operations, but those costs prevent them from doing the
> > > > workshops and outreach programs like Colo Spacegrant does; EOSS works
> > > > for 'em cheap! Nice win-win situation, but twofer heavies every
> > > > two
> > > > weeks does tend to take its toll on EOSS participation ... we're
> > > > trying to build a 2nd flight team so some of us regulars can take
> > > > a break from time to time.
> > > >

> > > > 73 de Mike W5VSI
> > > >
> > > > Mark Conner wrote:
> > > > >
> > > > > It is NASA space grant money, but for teachers instead of kids.
> > > > > Last year, ISU/HABET flew their payloads but Dr Larson didn't
> > > > > know about NSTAR then.
> > > > >
> > > > > We have two possible days, and we may be able to pick Fri and Sat
> > > > > too if we know far enough ahead of time the others will be bad -
> > > > > they can shuffle the schedule a little bit.
> > > > >
> > > > > - Mark
> > >
> > > --
> > > Mike Manes manes@... Tel: 303-979-4899
> > > "Things should be made as simple as possible, but not more so." A.
> > > Einstein
> >
> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

730. Re: Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-15 02:06:21 UTC
From: Drew Wilson
Topic: 700 Message: 730

The TinyTrak III can indeed do time slotting. HABITAT will be flying a Pocket Tracker using a TinyTrak III chip.

Drew N0XU

--- In GPSL@yahoogroups.com, <paul.verhage@b...> wrote:
> > So are you thinking that you WILL be able to time-slot your 144.34MHz
> > transmissions?
>
> I'm using a TT3. I haven't played with it for a while, but as I recall, I can do it.
>
> Paul

731. Re: Time Slotting

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-15 02:12:36 UTC
From: Drew Wilson
Topic: 700 Message: 731

I should probably add that the TinyTrak can only timeslot in 1-minute intervals. A previous post suggested 2-minute intervals; I suggest if we fill up all 10-second intervals we go with a shorter interval, such as 8 seconds, keeping in mind we need "guard" timeslots to keep from stomping on each other.

Drew N0XU

--- In GPSL@yahoogroups.com, "Drew Wilson" <n0xu@y...> wrote:
> The TinyTrak III can indeed do time slotting. HABITAT will be flying a
> Pocket Tracker using a TinyTrak III chip.
>
> Drew N0XU
>
> --- In GPSL@yahoogroups.com, <paul.verhage@b...> wrote:
> > > So are you thinking that you WILL be able to time-slot your
144.34MHz
> > > transmissions?
> >
> > I'm using a TT3. I haven't played with it for a while, but as I
> recall, I can do it.
> >
> > Paul

732. EOSS's N0KKZ & W5VSI GPSL digs

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-15 19:58:56 UTC
From: Mike Manes
Topic: 732 Message: 732

Hi Folks,

Rick N0KKZ and I have reservations at the MicroTel in Hutchinson
for 3 nites (Thu - Sat). Nice AARP & AAA discounts.

73 de Mike W5VSI, EOSS
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

733. Re: [GPSL] Presentations

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-18 21:53:42 UTC
From: paul.verhage@boiseschools.org
Topic: 724 Message: 733

Zack, I'll get my stuff together this week.

Paul

> I have only heard back from one of the presenters regarding their
> presentation.
>
> If I don't hear from more of you soon, it's going to make for a very
> short day on Friday!!!
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

734. ANSR-19 PSK-31 telemetry copied near Des Moines

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-19 16:02:14 UTC
From: Ralph Wallio, W0RPK
Topic: 734 Message: 734

As of 1556z I am copying PSK-31 telemetry from ANSR-19 on 14.070. Altitude 11,800ft and ascending. -w0rpk

735. Long-range outlook for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-19 16:25:58 UTC
From: Mark Conner
Topic: 735 Message: 735

The GFS forecasts now extend into the GPSL period (hard to believe that's only two weeks from today). At the moment, things look to be fairly normal for early July. No major storm systems are expected to move through, however, consistent southerly winds will bring a lot of moisture from the Gulf. At this point I would expect conditions similar to the 2002 GPSL, with afternoon temps in the high 80s, thunderstorms possible in the afternoon, and relatively light winds from the south.

Upper-level wind forecasts are all over the place, indicating landings to the north, east, or south. Probably less than a 30-mile trip.

73 de Mark N9XTN

736. Launch day schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-19 20:18:46 UTC
From: Mark Conner
Topic: 736 Message: 736

I noticed that we have capsule prep starting at 0730 for an 0845 launch. Do we want to move that about an hour earlier? We could gauge that the day before to see if there will be wind problems, but as everyone knows the closer to sunrise the better the winds usually are.

73 de Mark N9XTN

737. Re: [GPSL] Launch day schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-20 23:18:30 UTC
From: Mike Manes
Topic: 736 Message: 737

Hi Mark,

In general, you are right re dawn winds. However, in the past couple of months, we've encountered minimum winds closer to noon; both were in the wake of a frontal passage. Perhaps we should play that by ear, as with GPSL 02, when we moved the launch site 50 miles Friday PM to avoid landing in Ft. Riley.

73 de Mike W5VSI

Mark Conner wrote:
>
> I noticed that we have capsule prep starting at 0730 for an 0845
> launch. Do we want to move that about an hour earlier? We could
> gauge that the day before to see if there will be wind problems,
> but as everyone knows the closer to sunrise the better the winds
> usually are.
>
> 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

738. Re: [GPSL] Launch day schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-20 23:58:50 UTC
From: Zack Clobes
Topic: 736 Message: 738

I chose the later times primary for logistical reasons - I believe it would take an act of God to get eight balloon groups ready to launch much earlier than 9:00am.

Personally, we (Project: Traveler) haven't found much value in getting up early. The earlier you get up, the more people who are running late. Also, we haven't noticed drastic changes in winds between 7am and 10am. If it's going to be windy at 10, it's likely to be windy at 7.

And finally, I originally put that together with the thought that someone would be monitoring from the Cosmosphere, which doesn't open until 9:00am. Unfortunately, I haven't had any firm takers on that position so it looks like that's a moot point.

Anyway, that's my reasonings. I'm totally flexible - we can launch at 5:00am as far as I'm concerned.

Discussion?

Zack

Mike Manes wrote:

Hi Mark,

In general, you are right re dawn winds. However, in the past couple
of months, we've encountered minimum winds closer to noon; both were
in the wake of a frontal passage. Perhaps we should play that
by ear, as with GPSL 02, when we moved the launch site 50 miles Friday
PM to avoid landing in Ft. Riley.

73 de Mike W5VSI

Mark Conner wrote:

I noticed that we have capsule prep starting at 0730 for an 0845
launch. Do we want to move that about an hour earlier? We could
gauge that the day before to see if there will be wind problems,
but as everyone knows the closer to sunrise the better the winds
usually are.

73 de Mark N9XTN

Yahoo! Groups Links

739. Re: [GPSL] Launch day schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 00:55:44 UTC
From: wb8elk@aol.com
Topic: 736 Message: 739

My vote is to keep the schedule the way it is for the same logistics reasons
that Zack pointed out....around these parts the winds are usually good until
past 10 or 11 am, if they're good at 7am...although I tend to launch around
noon a lot (I've gotten pretty good at high wind takeoffs as a
result)....basically because I'm not much of a morning person and don't like to launch
balloons
while still half asleep.

Bill WB8ELK

740. Re: [EOSS_LT] EOSS-79A ....ac0ak-11 pocket tracker flight report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 00:27:55 UTC
From: Mike Manes
Topic: 740 Message: 740

Hi K-Mark,

The next "non-heavy" flights I see on the docket so far are
EOSS-80 at GPSL 04 (thought you were gonna be flying a
plastic there?) and the JOTA flight in Oct. There MIGHT be some
spare payload budget on the heavies, but we won't know for sure
until maybe a week in advance.

73 de Mike W5VSI

"K. Mark Caviezel" wrote:
>
> yeah, before I puff my chest out in pride, a couple
> more test proving flights will be good, consider it
> available for further evaluation any time EOSS can
> handle an extra 14 oz.
> So, for right now, I'll just puff my chest out just a
> little.
> I'll see if I can scare up some of that RG-142 B/U.
> I have another Pocket Tracker on my bench... been
> sitting in pieces since I soldered two parts onto it
> about 4 months ago.... it's probably time now to get
> that one finished up.
>
> - KMC ac0ak
>
> --- Mike Manes <manes@...> wrote:
> > Hi MArk,
> >
> > De nada. I was as eager as you to flight qualify
> > that ultralight
> > beacon. But I'd be inclined to see a couple more
> > successful flights
> > before relying on it as a primary tracking device,
> > tho; nor should it
> > be the ONLY device on the string - a DF beacon is
> > still essential
> > if all stations get LOS on landing. It took 'JLZ's
> > doppler DF to
> > get a bearing on the D7 MicKey packets from
> > EOSS-79B.
> >
> > Re lack of Denver digis: since it's deaf, its
> > beacons may have been
> > clobbered by the heavy APRS traffic along the front
> > range ...

> >
> > The coax you seek is RG-142 B/U - a bit heavier than
> > RG-58, but
> > virtually indestructable in the balloon environment
> > - and you can
> > get by with a whole lot less that 6 ft. DO keep the
> > ferrite bead
> > balun in place, tho, if the ckt is that sensitive to
> > counterpoise
> > current. Don't succumb to the temptation to use the
> > 1/8" OD
> > version; it's not nearly as strong and failed on
> > first flight that I
> > tried it.
> >
> > 73 de Mike W5VSI
> >
> > "K. Mark Caviezel" wrote:
> > >
> > > Mike, Chris:
> > > Thanks again for the opportunity to test fly the
> > > pocket tracker on EOSS 79B. As expected, the j
> > pole
> > > antenna made a HUGE improvement on performance, I
> > was
> > > near 100% copy in my car, and checking findu.com,
> > I
> > > see it was digi-ed by
> > >
> > > W0PMW-1 of Dodge City, KS
> > >
> > > WX0GLD-10 McCook, NE
> > >
> > > KJ7AZ-5 Rawlins, WY
> > >
> > > K0FJ-2 88.1 miles southwest of McCook, NE
> > >
> > > AB0XK-8 27.9 miles northeast of Hays, KS
> > >
> > > hmmmmmmmm no Denver stations show up as i-gating
> > any
> > > beacons..... is it possible that **all** of the
> > > Denver area i-gates QSYed to 144.34 MHz ??
> > (although
> > > it's possible the out of state stations had a
> > faster
> > > link to findu, it's doubtful as all of the out of
> > > state stations were digipeated once, then
> > i-gated).
> > >

> > > Anyway, I'm going to consider it a functional
> > system,
> > > although I do want to get some of that high-tech
> > super
> > > low temp rated coax to make a stratospheric j-pole
> > > that I won't fret about cold-soaking during
> > flight.
> > >
> > > The AC0AK-11 beacon was our sole tracking device
> > to
> > > enable our rendezvous with the flight string as it
> > > touched down (thick fog, we saw it from 0.15 miles
> > > range as it touched down, it would have been
> > invisible
> > > at 0.2 or 0.25 miles with the visibility that
> > existed
> > > at touchdown.
> > >
> > > - KMC ac0ak
> >
> > --
> > Mike Manes manes@... Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but
> > not more so." A.
> > Einstein
> >
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> Yahoo! Groups Links
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

741. Re: [GPSL] Launch day schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 18:18:40 UTC
From: paul.verhage@boiseschools.org
Topic: 736 Message: 741

I'm always in favor of getting ready early.
Paul

> I noticed that we have capsule prep starting at 0730 for an 0845
> launch. Do we want to move that about an hour earlier? We could
> gauge that the day before to see if there will be wind problems,
> but as everyone knows the closer to sunrise the better the winds
> usually are.
>
> 73 de Mark N9XTN
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

742. Logo and GPSL Motto

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 19:50:11 UTC
From: paul.verhage@boiseschools.org
Topic: 742 Message: 742
Attachments: 2 described; binary payloads are missing from this source WARC

I've updated the logo based on input from viewers. Here's the new near space logo in pdf form, which seems to be better quality then a gif. Please fell free to use it.

I'm also proposing a motto for this GPSL. How does, "Will chase balloons for food" sound?

I plan to bring a t-shirt with that.

Get your presentations together, you have just over a week. And please have some written text that I could put together into a conference report. I'd like to make graphs, photos, and text available on CD for everyone. A slide presentation isn't as helpful as text.

Remember, there are two prizes this year. One for the highest flight and the other for the most accurate landing prediction. Ralph, can you help out with that? To keep the work managable, there will be one prediction per launch team and it's just for your launch. This way we should be able to determine the winners and award the prizes during launch.

Please feel free to make suggestions. And above all, have a good time!

Paul

743. GPSL Organization?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 20:12:15 UTC
From: paul.verhage@boiseschools.org
Topic: 743 Message: 743

Zack brought this to my attention. Right now GPSL is a just a get together. Should it be an organization, and prehaps a non-profit? Should we set up a permanent GPSL website?

What are your thoughts?

Paul

744. Re: [GPSL] GPSL Organization?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 21:05:50 UTC
From: n9xtn@cox.net
Topic: 743 Message: 744

I'm not sure we need a GPSL organization. The "membership" tends to drift depending on the location that year. I do see a need for some kind of national organization, if for no other reason than to coordinate and share resources and experience.

www.gpsl.{com,org,net} seem to be taken already. www.superlaunch.org is available. I think a permanent web site would be nice.

As a reference point, nstar.org costs about $60/yr for name registration and server costs (which includes 300 Mbytes of space, mail forwarding, full MS FrontPage compatibility, etc). We could probably get by with less space to cut costs if needed, and perhaps someone can come up with a free or nearly free solution.

73 de Mark N9XTN

----- Original Message -----
From: <paul.verhage@...>
Date: Monday, June 21, 2004 3:12 pm
Subject: [GPSL] GPSL Organization?

> Zack brought this to my attention. Right now GPSL is a just a get
> together. Should it
> be an organization, and prehaps a non-profit? Should we set up a
> permanent GPSL
> website?
>
> What are your thoughts?
>
> Paul
>

745. Head Count

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 22:41:42 UTC
From: Zack Clobes
Topic: 745 Message: 745

I need to get a rough head count for scheduling, parking, and eating considerations. Please send me (zack@...) an email indicating:
1. The names of your party.
2. How many vehicles you will have for the chase.
3. Whether or not you will be attending the conference on Friday.

This information would be greatly appreciated.

Thanks,
Zack

746. Re: [GPSL] GPSL Organization?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 23:16:43 UTC
From: Mike Manes
Topic: 743 Message: 746

Hi Paul,

I think that there are enough active balloon groups in the country
now that it might be worth setting up a national (or international?)
amateur ballooning organization along the lines of the ARRL. It could
offer us a common forum for discussion of ideas, purchasing power, a
real periodical and might even have enough ooomph to interest
underwriters to offer affordable liability insurance.

How about round table discussion at the GPSL '04 conference, Zack?

73 de Mike W5VSI, EOSS

paul.verhage@... wrote:
>
> Zack brought this to my attention. Right now GPSL is a just a get together. Should it
> be an organization, and prehaps a non-profit? Should we set up a permanent GPSL
> website?
>
> What are your thoughts?
>
> Paul
>
>
>
> Yahoo! Groups Links
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

747. Re: [Ballooning] Japanese Vengenance Balloon Bombs of World War II - J. David Rogers

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 23:04:39 UTC
From: Mike Manes
Topic: 747 Message: 747

Hi Lloyd,

Sure, long distance balloning has been done for a LOOOOONG time; just not using latex (with a few sad exceptions). Recall that just a few years ago, the earth was circumnavigated non-stop in a manned hybrid helium/hot air balloon. It turns out that one of the Japanese ballons actually landed just a few miles from EOSS's winter launch site near Ft Collins CO. And we've been working with NOAA Forecast Systems Lab in Boulder on the GAINS 6-mo duration balloon project.

But your question is germane: recovery becomes tedious, and if the balloon gets into civil airspace, or over Libya or China, it becomes even dicier.

If we had our druthers, there would be no such thing as wind. Just pop it off and wait for it to land in your lap. O'course, w/o wind, there'd be no weather and no atmospheric energy exchange, so life as we know it wouldn't be here ...

BTW, do you plan to join the Great Plains Super Launch in Hutchinson KS over the 4 July weekend? There'll be at least 10 balloon groups there.

73 de Mike W5VSI
EOSS
www.eoss.org

Lloyd Colston wrote:
>
> <http://web.umr.edu/~rogersda/forensic_geology/Japenese%20vengenance%20bombs%20new.htm>
>
> On the topic of long distance balloons, I am reminded of the Japanese
> effort to bomb the USA using balloon bombs.
>
> The link details the balloon bombs of World War II.
>
> Therefore, you will see that long distance ballooning is possible.
>
> Now, who's going to chase it? :)
>
> --
>
> Lloyd Colston Mayes County CEM
> Pryor, OK USA http://www.geocities.com/mccem
> Homeland Security begins at Home.

>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

748. Re: [GPSL] Head Count

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-21 23:40:37 UTC
From: Mike Manes
Topic: 745 Message: 748

Hi Zack,

At last count, EOSS has the following gang coming; all of 'em except
XYLs plan to attend the Friday conference & chase Sat.

Grouped by vehicles:

Mike W5VSI & Rick N0KKZ
Marty WA0GEH + XYL
Larry K0ANI + XYL
Larry N0NDM & Chris KB0YRZ
Russ KB0TVJ + XYL?
Nick N0LP + Michelle (staying in Wichita)
Benjie W0CBH & Marcia KC0SOW

So unless I missed someone, that's 14 total in 7 vehicles, with 9 heads
for sure at the conference, and all 14 bellies at group dinners.

EOSS GPSL folks: pls post any corrections as Reply All.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:
>
> I need to get a rough head count for scheduling, parking, and eating
> considerations. Please send me (zack@...) an email indicating:
> 1. The names of your party.
> 2. How many vehicles you will have for the chase.
> 3. Whether or not you will be attending the conference on Friday.
>
> This information would be greatly appreciated.
>
> Thanks,
> Zack
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

749. Re: [EOSS] Re: [Ballooning] Japanese Vengenance Balloon Bombs of World War II - J. David Rogers

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-22 15:52:27 UTC
From: Gene Harlan
Topic: 749 Message: 749

And, do not forget to supply Amateur Television Quarterly as soon as possible with information about the GPSL event!

I will be working on the Summer 2004 issue while the event is happening, and if you would like coverage, I will need information and
pictures as soon as possible after the event. It goes to the printer July 15th, but if it is to be included, I need time to work it
in.

Would someone like to be the contact person for ATVQ?

Someone want to write an article to recap the event?

Have fun. I wish I could be there.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <kc5fm@...>
Cc: "EOSS membership reflector" <EOSS@yahoogroups.com>; "GPSL Reflector" <GPSL@yahoogroups.com>
Sent: 21 June 2004 Monday 6:04 PM
Subject: [EOSS] Re: [Ballooning] Japanese Vengenance Balloon Bombs of World War II - J. David Rogers

BTW, do you plan to join the Great Plains Super Launch in Hutchinson
KS over the 4 July weekend? There'll be at least 10 balloon groups
there.

73 de Mike W5VSI
EOSS
www.eoss.org

750. Re: [GPSL] Head Count

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-22 18:08:59 UTC
From: paul.verhage@boiseschools.org
Topic: 745 Message: 750

It will just be me, Paul.
I'll have one car to chase with, but wouldn't mind riding with another chaser.
I'll be there on Friday, bright and early.

I'll also be ther for Thursday's dinner get together.

Thanks for taking care of GPSL 2004.

Paul

> I need to get a rough head count for scheduling, parking, and eating
> considerations. Please send me (zack@...) an email indicating:
> 1. The names of your party.
> 2. How many vehicles you will have for the chase.
> 3. Whether or not you will be attending the conference on Friday.
>
> This information would be greatly appreciated.
>
> Thanks,
> Zack
>
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> Yahoo! Groups Links
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751. Photos at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-22 19:26:51 UTC
From: n9xtn@cox.net
Topic: 751 Message: 751

If at all possible, please have a photo CD made with any film photos you take at the GPSL. This includes payload cameras. I would like to collect a complete photo record of this year's events - if it's all digital, we can make copies cheap. At Wal-Mart, this costs less than $4/roll.

If you shoot digital photos, be sure to archive them somewhere.

This might be a stand-alone effort, or could go with Paul's efforts to collect presentations. There's 700 Mbytes on a CD - let's fill it up!

Just mail me a copy of your photos on CD to my callbook address, or if you have FTP space somewhere let me know and I'll download them.

This will go a long ways towards creation of a future GPSL website too.

73 de Mark N9XTN

752. Re: [GPSL] Head Count

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 01:58:22 UTC
From: Don Pfister
Topic: 745 Message: 752

paul.verhage@... wrote:

> I'll also be ther for Thursday's dinner get together.

So what are the plans for Thursday? Cris and I are tying to decide if we should come down Thursday or wait until Friday morning.

73
Don KA0JLF
HABITAT SkyLab

753. Helium Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 02:09:33 UTC
From: Zack Clobes
Topic: 753 Message: 753

So far I have only received helium orders from NSTAR and EOSS. Is anyone else coming?

/*Remember, I need these by this weekend!!!!!!!!*/

754. Re: [GPSL] Head Count

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 02:10:26 UTC
From: Zack Clobes
Topic: 745 Message: 754

Just an informal gathering. Nothing really happening.

If you don't mind the early morning drive, I'd wait until Friday,
personally.

Zack

Don Pfister wrote:

>paul.verhage@... wrote:
>
>
>
>>I'll also be ther for Thursday's dinner get together.
>>
>>
>
>So what are the plans for Thursday? Cris and I are tying to decide if we should
>come down Thursday or wait until Friday morning.
>
>73
>Don KA0JLF
>HABITAT SkyLab
>
>
>
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>
>Yahoo! Groups Links
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755. GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 02:35:38 UTC
From: hhm_74115@cox.net
Topic: 599 Message: 755
Attachments: 1 described; binary payloads are missing from this source WARC

Do not respond to this mail!
It is in a motel!

Just thought I'd say howdy from Jackson Hole, Wyoming.
Paul I didn't have any of the Treasure Valley groups
numbers phone numbers with me as I passed through Boise
a couple days ago. I did try several repeaters, but had
no luck.

I still plan to be at GPSL, so I will see you all there!

Cheers!

Harry KC5TRB
O.R.B.

756. EOSS Scheduled flight info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 11:52:05 UTC
From: Mike Manes
Topic: 756 Message: 756

Hi Zack,

Just got off the GPSL web site - Here's the info to replace the
??? for the EOSS lauch:

Title: "EOSS-80" vice "W5VSI-11"

Primary Contact: (me) .... from Littleton, CO (w5vsi@...)

Website: www.eoss.org

Repeater: NONE - we've decided not to tie up so many freqs

ATV: EOSS de-spun look-down camera, switching to a look-up camera
above 50,000 ft. Cycle during ascent to 50K', 2 min lookdown,
1 min look up, 2 min QRT.
XMTR: KPA-5, ANT: W6OAL/W5VSI robust Little Wheel.

Ballon/gas: 1200 or 1500 latex, approx 300 CF He

Est'd burst: 90 - 100K'

Est'd ascent rate: 1000 - 1100 FPM

Est'd descent rate: 1200 FPM @ SL

Capsule weight: ATV - 4.5 lb; APRS - 2.4 lb; DF/cutdown - 1.1 lb;
Total payload: 8.0 lb + flight system: 1.5 lb = 9.5 lb neck load

APRS Telemetry data: W5VSI-11 - GGA @ 60 sec, RMC @ 120 sec, KPC-3+
analog telemetry at 300 sec. Node: BALNOD; Digi: EOSS; BBS: BALBOX.
Slotted to start @ 0:00 each minute w/ active DCD collision avoidance.

BTW, it's doubtful that we'll have the commandable valvedown ready to
go for GPSL; if we get lucky, we'll fire it at 80,000 ft.

73 de Mike W5VSI, EOSS

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

757. RE: nearcraft discovered near saylor creek range

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 18:52:19 UTC
From: paul.verhage@boiseschools.org
Topic: 757 Message: 757

I just got this email from John Stone. It looks like they found one of our lost near spacecraft. Ralhp, I think we have a new entry for the records.

Paul

> Brad, Please coordinate the return with Jeff Melanson his e-mail is above.
>
>
>
> If you have GPS coordinates of the landing site, it will help us compare
> with what our predictions had been and will still be useful. Based on the
> payload and general area of recover, this is the capsule from TV02A launched
> on 3/30/2002 at 07:00 MST N 42.74290° W 117.06701° Alt. 2290' (Adrian, OR)
> The last known position was N 43 11.91 W 116 17.77 Alt. 77,282□ at 08:06
> MST.
>
>
>
> Once we can verify the receipt of the capsule it looks like we will hold the
> record for the longest recovery time at 815 days. This is 162 days longer
> then the previous record. See the records at
> http://users.crosspaths.net/~wallio/RECORDS.htm
>
>
>
> If you have any questions you may also contact me.

Dear Treasure Valley Near Space Program,
>
> Today, June 22, my shop was working on clearing the saylor creek bombing
> range, which is used by Mountain Home AFB and located near Bruneau. While
> doing aerial helicopter surveys outside the boundries of the range we saw
> something that caught our eye. We landed to check it out and discovered it
> to be one of your nearcraft's and parachutes. There were several badges and
> t-shirts packed in one of the boxes along with a GPS unit and what appeared
> to be a radio of some sort. On the bottom of one of the other boxes was a
> camera. The pilot of the helicopter placed it in his cargo area and said he
> would contact you when he got home. Well I hope he does because if you get
> any information from it I would be interested in knowing what happened with
> it.
>
> Sincerely,
> Josh Harris
>
>

758. Forecast for next Fri/Sat

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 20:30:46 UTC
From: n9xtn@cox.net
Topic: 758 Message: 758

Still looks pretty good. We should be in a situation where we don't have strong winds just above a surface inversion, so a ~9am launch should be OK. Morning temps will be about 70 and afternoon highs near 90. It will probably be humid, with afternoon showers and thunderstorms possible. However, no major systems are expected to pass through to produce sustained areas of rain, wind, or severe weather.

The upper-level wind forecasts still have a lot of variance. The strongest winds aloft are forecast near 38,000 ft from the southwest about 30 kts. At the high altitudes (above 80,000 ft) the winds should strenghten from the east at about 30 kts. So burst altitude will be key to your landing forecasts - higher bursts will push the landing west about a half mile per 1000 ft. The terminal part of the chase should be easy with winds less than 15 mph below 15,000 ft.

73 de Mark N9XTN

759. Repeater for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-24 16:24:18 UTC
From: n9xtn@cox.net
Topic: 759 Message: 759

Has a repeater for Thursday/Friday use been chosen for GPSL? I can't get the message archives from here, so maybe this has already been discussed. If it has been chosen, can it be put on the website for future reference? 2m is fine, but perhaps a 70cm repeater would have less use.

Also, if there's a wide-area 70cm repeater for the chase on Saturday, that might be useful. I imagine we'll be close enough for simplex work most of the time.

73 de Mark N9XTN

760. Re: cancel KB0TVJ for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-23 21:38:41 UTC
From: Mike Manes
Topic: 760 Message: 760

Hi Russ,

Sorry to hear that. You'll be missed. Hope the XYL comes thru OK.
CU when we get back.

For Zack: Make that 1 less EOSS participant and chase vehicle.

73 de Mike W5VSI, EOSS

Russ KB0TVJ wrote:

Mike,

My wife has a medical procedure scheduled that will prevent us from
participating in the Great Plains Super Launch the first week in July.
So, I won?t be in Hutchenson, KS as I originally had told you that I
would.

Russ KB0TVJ
R. B. Chadwick, Senior Engineer
NOAA Forecast Systems Laboratory
Boulder, CO 80305
(303) 497-6318
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

761. "ES-OS" pull out from this year's GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-25 18:00:06 UTC
From: K. Mark Caviezel
Topic: 761 Message: 761

Comrades in Balloonacy:

It's very unfortunate that "ES-OS" will have to cancel attendance at this year's GPSL. I have recently emerging professional obligations that will preclude my attendance, and other "ES-OSians". Hopefully I can get it together for next year. The planned 1/2 million cubic foot 'baby-shamu' zero pressure balloon is as now still-born as I have been unable to get suitable balloon film at an affordable (to me) price.

- KMC ac0ak Denver, CO.

762. Re: [GPSL] "ES-OS" pull out from this year's GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-26 03:37:05 UTC
From: Mike Manes
Topic: 761 Message: 762

Hi K-Mark,

We'll miss you, and am disappointed that you can't show off that
monster bag! Wotta gas .... or izzat Lotta gas :=}

So, Agent Orange jacked up the ante on dropcloth PE film, eh?

73 de Mike W5VSI, EOSS

"K. Mark Caviezel" wrote:
>
> Comrades in Balloonacy:
>
> It's very unfortunate that "ES-OS" will have to cancel
> attendance at this year's GPSL. I have recently
> emerging professional obligations that will preclude
> my attendance, and other "ES-OSians". Hopefully I
> can get it together for next year. The planned 1/2
> million cubic foot 'baby-shamu' zero pressure balloon
> is as now still-born as I have been unable to get
> suitable balloon film at an affordable (to me) price.
>
> - KMC ac0ak Denver, CO.
>
>
>
> Yahoo! Groups Links
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>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

763. Launch times

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-26 03:53:12 UTC
From: Zack Clobes
Topic: 763 Message: 763

So what was the consensus of the group? Was it a 7:30am launch, or an 8:45am launch?

The Cosmosphere station is officially dead, so that's no longer a factor.

Zack

764. Re: [GPSL] Launch times

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-26 05:01:56 UTC
From: Don Pfister
Topic: 763 Message: 764

Zack Clobes wrote:

> So what was the consensus of the group? Was it a 7:30am launch, or an
> 8:45am launch?
>
> The Cosmosphere station is officially dead, so that's no longer a factor.
>
> Zack

Zack, several of our group will be joining us the morning of the launch. I just need to let them know when they should be there. Driving down from here means leaving KC metro at 'Zero Dark UGLY'. ;-)

Several of us should be there Friday. But as you know I don't do mornings well. ;-)

Looking forward to it.

Don KA0JLF

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

766. Re: [GPSL] Launch times

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-26 12:31:39 UTC
From: Mike Manes
Topic: 763 Message: 766

Hi Zack,

Provided the launch site wind forecast is good, the later, the better.

Coordinating the prep and fill of nine or so balloons and flight strings for a simultaneous launch is gonna consume time. So I'd recommend planning to set up at least 2 hours in advance.

Is there any reason we can't nail the launch time Friday afternoon when we have a confident forecast?

73 de Mike W5VSI

Zack Clobes wrote:
>
> So what was the consensus of the group? Was it a 7:30am launch, or an
> 8:45am launch?
>
> The Cosmosphere station is officially dead, so that's no longer a factor.
>
> Zack
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

768. Balloon Sat program

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-27 04:11:07 UTC
From: dirgebig
Topic: 768 Message: 768

I was wondering if anyone has the contact point for ORB? I am a grad student at OSU and we are looking at starting up a balloon sat program and would like to get help from some of the local area clubs in the tracking and recovery phases. If you know of someone in the area of Stillwater that is willing to help, please have them contact me.

Thnks

Joe Conner

769. GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 00:41:57 UTC
From: Zack Clobes
Topic: 599 Message: 769

Well, this is the final count-down for the "Big" balloon launch. People are to begin arriving in town on Thursday to attend the conference on Friday. Saturday morning is the planned balloon launch - the exact location is yet to be determined and will be announced on Friday. The primary talk-in frequency will be 147.12+. Other local repeaters are on listed on the GPSL website under "Getting to Hutchinson".

Per the discussion on the GPSL group, plan on showing up at the launch site BEFORE 7:30am. That means 7:30am, not 7:31, or 7:32, or 7:40. We will launch as soon as everyone is ready, but NO LATER THAN 8:45am. In Kansas, 30kt sustained winds are considered "normal" and I think most would agree that we don't want to test mother nature.

Any groups that are running late should expect to have one knuckle removed from their hands for each minute past 7:30am.

The chase teams should plan on using either 146.49MHz or 446.000MHz simplex, as they see fit. I realize that this is going to be a disconnect for the group, but I have a feeling that one frequency could get a little congested.

For more information, be sure to watch the GPSL website at http://www.rckara.org/project_traveler/gpsl/

Zack Clobes, W0ZC
Project: Traveler

770. EOSS-80 payload plan - Rev A

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 01:54:14 UTC
From: Mike Manes
Topic: 770 Message: 770
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,

The revised EOSS-80 GPSL payload plan is attached as a Word97 .doc.
I've dropped the crossband repeater to mitigate freq usage & the dump
valve since it won't be ready (I'll have a prototype for a 3000 gm bag
for show & tell Friday) and cut back to a 1200 gm balloon.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

771. Re: [GPSL] (unknown)

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 03:32:33 UTC
From: Mike Manes
Topic: 771 Message: 771

Hi Joe,
Try Harry Mueller, KC5TRB, cc'ed above.
73 es GL! de Mike W5VSI, EOSS

dirgebig wrote:
>
> I was wondering if anyone has the contact point for ORB? I am a
> grad student at OSU and we are looking at starting up a balloon sat
> program and would like to get help from some of the local area clubs
> in the tracking and recovery phases. If you know of someone in the
> area of Stillwater that is willing to help, please have them contact
> me.
>
> Thnks
>
> Joe Conner
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

772. Re: [GPSL] Balloon Sat program

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 03:38:45 UTC
From: Mike Manes
Topic: 768 Message: 772

Hi again, Joe

Try going to www.arrl.org and searching for ARRL affiliated amateur radio clubs in the Stillwater area. Or try googling to "amateur radio" or "ham radio" and "Stillwater". Many ham clubs have web sites. Have you looked for a ham club at OSU? They're usually associated with the engineering or physics depts.

73 de Mike W5VSI

dirgebig wrote:
>
> I was wondering if anyone has the contact point for ORB? I am a
> grad student at OSU and we are looking at starting up a balloon sat
> program and would like to get help from some of the local area clubs
> in the tracking and recovery phases. If you know of someone in the
> area of Stillwater that is willing to help, please have them contact
> me.
>
> Thnks
>
> Joe Conner
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

773. GPSL frequencies/modes/time-slotting (please check and correct)

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 13:12:41 UTC
From: Ralph Wallio, W0RPK
Topic: 773 Message: 773

Perhaps it is time to distribute frequency/mode information gleaned from http://www.rckara.org/project_traveler/gpsl/scheduled_flights.asp and email discussion to a wider audience. Please double-check for accuracy and correct/add/delete as necessary. I will forward a corrected version to others on Wednesday.

144.310 WB8ELK MCW DF beacon downlink
144.340 APRS/telemetry downlinks from all flights (schedule below)
144.390 APRS/telemetry downlinks from NSTAR, KD4STH and TRAVELER
145.600 EOSS CW DF beacon downlink
147.555 EOSS FM repeater downlink
147.585 SSTV FM downlinks from HABITAT and NSTAR

426.250 EOSS AM ATV downlink (horizontal)
434.020 HABITAT DF beacon downlink
439.250 WB8ELK AM ATV (horizontal?)
441.025 HABITAT APRS/telemetry downlink
445.975 EOSS FM repeater uplink

APRS/telemetry downlink transmission schedule on 144.34MHz:
(Time-slotted from the start of each GPS minute)
00-09sec EOSS (W5VSI-11)
10-19sec Not assigned
20-29sec HABITAT (KA0JLF-11)
30-39sec NSTAR (N9XTN-11)
40-49sec TRAVELER (W0WR-11)
50-59sec WB8ELK (WB8ELK-11)
Once/min not time-slotted KD4STH (KD4STH-11)

Digipeating on 144.340 simplex uplink/downlink
Digipeating attempts limited to 10-19sec time-slot(?)
EOSS W5VSI-11 alias EOSS and BALNOD
NSTAR N9XTN-11 alias NSTAR

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

774. Re: [GPSL] Launch times

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 15:09:05 UTC
From: paul.verhage@boiseschools.org
Topic: 763 Message: 774

> So what was the consensus of the group? Was it a 7:30am launch, or an
> 8:45am launch?

Either time works for me, as I'm accustomed to getting up early for a launch.

Paul

775. Grant Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 15:30:30 UTC
From: Jim
Topic: 775 Message: 775

To all intersted parties.

This grant information just came across my desk. I am sure it would be of interest to all the teachers in the group and those of you who interface with science teachers. I believe this grant would fit nicely with with our hobby. Please pass this information alone as quickly as possible.

Grant Announcement:
National Weather Association Sol Hirsch Teacher Grants
Deadline: August 1, 2003
Funds available: Five awards of $500 each
Eligibility: Teachers of grades K-12
Areas of awards: use the funds to take an accredited course in atmospheric sciences, attend a relevant workshop or conference or purchase scientific materials or equipment for the classroom
Contact Information: NWA Education Committee, P.O. Box 15011 Baltimore, MD 21282-5011 (434) 296-9966; e-mail: NatWeaAsoc@...; web site: www.nwas.org/solhirsch.html

73's Jim N0AJI

776. Weekend forecast

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 19:48:39 UTC
From: n9xtn@cox.net
Topic: 776 Message: 776

There is increasing uncertainty in the forecast for late this week. A weak cold front is expected to pass through Friday, but may stall near or south of Hutchinson for Saturday. This will increase our rain chances somewhat. Also, the low pressure area that is pushing the front south is moving out more slowly with each model run. If this trend continues, that would increase our surface winds for Saturday. Right now, the winds should be 10 kts or less.

This trend also affects the upper-level wind pattern. Previously the winds were more westerly and lighter, but now the forecast is turning more to the northwest and has more variation. This would take our landings uncomfortably close to Wichita. I'll run some data through Balloon Track when I get home this evening to refine this a little. Using the McPherson airport should be fine under these conditions, with the landings near or east of Newton.

73 de Mark N9XTN

777. Helium order for this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-28 21:02:02 UTC
From: Zack Clobes
Topic: 777 Message: 777

By now, I should have everyone's helium order in. As it stands now, I'm ordering the following:

Paul - 2T
NSTAR - 1T
Project: Traveler - 1K
EOSS - 2K
HABITAT - 1K
WB8ELK - 1T

I'm also ordering one spare K and one spare T to have on hand.

If there are any changes or corrections, let me know NOW as I will be picking the gas up on Thursday morning.

Zack

778. Re: [GPSL] Helium order for this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 00:30:55 UTC
From: Don Pfister
Topic: 777 Message: 778

Zack Clobes wrote:

> By now, I should have everyone's helium order in. As it stands now, I'm
> ordering the following:
>
> Paul - 2T
> NSTAR - 1T
> Project: Traveler - 1K
> EOSS - 2K
> HABITAT - 1K
> WB8ELK - 1T
>
> I'm also ordering one spare K and one spare T to have on hand.
>
> If there are any changes or corrections, let me know NOW as I will be
> picking the gas up on Thursday morning.
>
> Zack

Zack, are those designations right? I thought the T tank was the bigger tank
(294 cu ft).

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

779. Re: [GPSL] Helium order for this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 01:08:41 UTC
From: Zack Clobes
Topic: 777 Message: 779

Oops.. Yep, you should be a 1T, so a total of 4K's and 6T's.

Sorry about that.

Zack

Don Pfister wrote:

>Zack Clobes wrote:
>
>
>
>>By now, I should have everyone's helium order in. As it stands now, I'm
>>ordering the following:
>>
>>Paul - 2T
>>NSTAR - 1T
>>Project: Traveler - 1K
>>EOSS - 2K
>>HABITAT - 1K
>>WB8ELK - 1T
>>
>>I'm also ordering one spare K and one spare T to have on hand.
>>
>>If there are any changes or corrections, let me know NOW as I will be
>>picking the gas up on Thursday morning.
>>
>>Zack
>>
>>
>
>Zack, are those designations right? I thought the T tank was the bigger tank
>(294 cu ft).
>
>--
>
>[Signature File]
>Name=Don Pfister KA0JLF
>
>Founder of HABITAT SkyLab
>(High Altitude Basic Investigation Testing And Tracking)
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>Yahoo! Groups Links
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780. Re: [GPSL] GPSL frequencies/modes/time-slotting (please check and correct)

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 01:07:01 UTC
From: Mike Manes
Topic: 773 Message: 780

Thanks for that, Ralph,

EOSS won't be flying the crossband repeater this year, so you may
free up 147.555 and 445.975. And our DF beacon on 145.600 is also
a command uplink - plus avoid xmitting there!

A note on the EOSS ATV operating cycle: During ascent to 50K', the
despun downlooknig camera is selected for 2 minutes, then the
uplook camera is selected for 1 minute; then the the xmtr goes QRT for
2 minutes. This 5-minute cycle repeats until we hit 50K', then we
go 100% duty uplook until decent back thru 50K', when we switch to the
despun downlook 100%.

Connecting to BALNOD on 144.34 and issuing a J cmd will return a
listing of callsigns heard; then C (callsign) will init an ARQ node
link. This module abides CS/CD, so it won't QRM other beacons.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Perhaps it is time to distribute frequency/mode information gleaned from
> http://www.rckara.org/project_traveler/gpsl/scheduled_flights.asp and email
> discussion to a wider audience. Please double-check for accuracy and
> correct/add/delete as necessary. I will forward a corrected version to
> others on Wednesday.
>
> 144.310 WB8ELK MCW DF beacon downlink
> 144.340 APRS/telemetry downlinks from all flights (schedule below)
> 144.390 APRS/telemetry downlinks from NSTAR, KD4STH and TRAVELER
> 145.600 EOSS CW DF beacon downlink
> 147.555 EOSS FM repeater downlink
> 147.585 SSTV FM downlinks from HABITAT and NSTAR
>
> 426.250 EOSS AM ATV downlink (horizontal)
> 434.020 HABITAT DF beacon downlink
> 439.250 WB8ELK AM ATV (horizontal?)
> 441.025 HABITAT APRS/telemetry downlink
> 445.975 EOSS FM repeater uplink
>
> APRS/telemetry downlink transmission schedule on 144.34MHz:
> (Time-slotted from the start of each GPS minute)
> 00-09sec EOSS (W5VSI-11)
> 10-19sec Not assigned
> 20-29sec HABITAT (KA0JLF-11)

> 30-39sec NSTAR (N9XTN-11)
> 40-49sec TRAVELER (W0WR-11)
> 50-59sec WB8ELK (WB8ELK-11)
> Once/min not time-slotted KD4STH (KD4STH-11)
>
> Digipeating on 144.340 simplex uplink/downlink
> Digipeating attempts limited to 10-19sec time-slot(?)
> EOSS W5VSI-11 alias EOSS and BALNOD
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>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

781. Has anyone heard from ANSR?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 01:56:12 UTC
From: Zack Clobes
Topic: 781 Message: 781

Michael Gray contacted me months ago and had planned on flying a glider this weekend at GPSL. I haven't heard from him since and he hasn't responded to emails. If anyone is in contact with him, you might have him confirm whether or not he is planning on flying.

Zack

782. Re: [GPSL] Launch times

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 15:45:14 UTC
From: n9xtn@cox.net
Topic: 763 Message: 782

I think we can leave it at 0845 for now, but leave open the possibility of going earlier if the surface wind forecast suggests we do so.

The READY site is having data problems at the moment, but hopefully those will be resolved by noon or so. The forecasts are still varying quite a bit on how strong the winds will be between 20 kft and 60 kft, which affects whether we'll be able to use Sunflower or now.

Will we have internet access at the college on Friday? It would be nice to have a quick weather briefing before we break for the day.

- Mark

> So what was the consensus of the group? Was it a 7:30am launch,
> or an
> 8:45am launch?

783. Re: [GPSL] Launch times

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 15:56:50 UTC
From: Zack Clobes
Topic: 763 Message: 783

Many of the hotels have free broadband. We will also have it available at the college on the projector.

I think it would be a good use of time for one of us to show the group how to download the GFS forecasts and run them through Balloon Track.

Zack

n9xtn@... wrote:

>I think we can leave it at 0845 for now, but leave open the possibility of going earlier if the surface wind forecast suggests we do so.
>
>The READY site is having data problems at the moment, but hopefully those will be resolved by noon or so. The forecasts are still varying quite a bit on how strong the winds will be between 20 kft and 60 kft, which affects whether we'll be able to use Sunflower or now.
>
>Will we have internet access at the college on Friday? It would be nice to have a quick weather briefing before we break for the day.
>
>- Mark
>
>
>
>>So what was the consensus of the group? Was it a 7:30am launch,
>>or an
>>8:45am launch?
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>Yahoo! Groups Links
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784. Re: [GPSL] Helium order for this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 16:19:47 UTC
From: paul.verhage@boiseschools.org
Topic: 777 Message: 784

> By now, I should have everyone's helium order in. As it stands now, I'm
> ordering the following:
>
> Paul - 2T
> NSTAR - 1T
> Project: Traveler - 1K
> EOSS - 2K
> HABITAT - 1K
> WB8ELK - 1T
>
> I'm also ordering one spare K and one spare T to have on hand.

I ordered my second tank as a spare. If anyone has any spare gas, please let me know. I'll reimburse you and save money by not cracking my second tank.

By the way, if you're looking for gas, I know this great little restaurant in Boise......

Paul

785. Re: [GPSL] Model forecasts

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 18:38:41 UTC
From: Mark Conner
Topic: 785 Message: 785

I can talk a little bit about the models and their use in Balloon Track. My "NSTAR highlights" period may be a little thin, as I haven't had time to put much together. Mostly it'll be video clips.

Anyway, the GPSL website reads:

2. From the Sounding drop-down list box, select either one of the GFS models depending on the forecasting range required (up to 384 hours), or select 'Aviation Model (AVN 191 km Global)' to get forecasts up to 84 hours in advance.

Here are my recommendations for model usage:

0-12 hours: RUC and Eta
12-84 hours: GFS 0-84 hr and Eta
84-180 hours: GFS 0-180 hr
192-384 hours: GFS 192-384 hr

The "AVN 191km" dataset is a degraded GFS product to support users who are not able to modify their software to read the new higher GFS grid resolutions.

The Eta has more levels and generally does better at resolving boundary-layer features in the lowest 2-3 km of the atmosphere, which is handy for surface wind forecasting. The GFS is often better at the positioning and intensity of jet streams, and has additional layers in the lower stratosphere (the Eta tops out at about 60 kft).

I ran a prediction today and got a result of about 160 degrees at 35 miles. That is safely west of Wichita, but it would only take a change of 20 degrees or so to put us too close.

73 de Mark N9XTN

----- Original Message -----
From: "Zack Clobes" <zclobes@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, June 29, 2004 10:56
Subject: Re: [GPSL] Launch times

> Many of the hotels have free broadband. We will also have it available
> at the college on the projector.
>
> I think it would be a good use of time for one of us to show the group
> how to download the GFS forecasts and run them through Balloon Track.
>
> Zack

786. GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 19:40:26 UTC
From: Harry M
Topic: 599 Message: 786

Hi all!

I have returned to Tulsa after a 30 day, 6,000 mile
vacation. I will be leaving here Thursday morning
for Hutchinson and will be staying at the Holiday Inn
at 1601 Super Plaza. The phone there is 620-669-5200.

As it looks right now I will be driving my van with a
stand-alone tracker. I will be available to be someone's
driver, co-pilot or observer on the chase.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
---

787. [Fwd: Umbrella organization and GPSL digipeating]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 17:31:53 UTC
From: Mike Manes
Topic: 787 Message: 787

Hi Zack,

Got this from Mike Gray last Saturday -- guess ANSR's a no-show,
as well as Mark Caviezel/ES-OS.

73 de Mike W5VSI

mgray@... wrote:
>
> I won't be at GPSL this year because our statewide Arizona Hamfest is the
> same weekend, provided forest fires don't burn us out.
>
> For the ANSR, Arizona Near Space Research, group, we would agree with
> Ralph on all the points he makes. There really isn't any big upside to
> creating a national ballooning group. I think all the major groups are
> linked together via the web anyway.
>
> I would also worry that a National organization working with the various
> local NASA Space Grant colleges, might create some sort of conflict of
> interest or one group may want another to pay for their flights.
>
> Local organizations know best what their local "customers" and consumers
> want. A National organization seems like most large, federal
> organizations. Big and slow. After all, look how well run the Post
> Office and Social Security are.
>
> Anyway, that is my 0.02 worth.
>
> 73 de KD7LMO
>
> On Sat, 26 Jun 2004, Ralph Wallio, W0RPK wrote:
>
> > Mike,
> >
> > I have been thinking about the pros and cons of an international Amateur
> > Radio high altitude ballooning umbrella organization since Paul started
> > promoting the idea. My bottom line pending opinions from others is that it
> > is all cons and no pros. I have talked to insurance gurus which leads me to
> > believe that we will not collectively solve our liability insurance puzzle
> > (at affordable cost) with an umbrella organization. We already widely share
> > basic and advanced information and provide fledgling support in many ways.
> >
> > I am not imaging other potential pros that would outweigh the significant
> > cons associated with creating and maintaining an organization. It will take
> > collective time, energy and money that could only be available by stealing
> > from active balloon programs, projects and local organizations. I don't

> > have enough time, energy and money to service my list of stuff I would
> > already like to do with ballooning, let alone with other facets of Amateur
> > Radio and other hobbies.
> >
> > Were I with you folks for this discussion at GPSL-2004 I would argue against
> > establishing an umbrella organization but I would listen to and consider
> > counter arguments. In case this railroad needs to be derailed, I am not
> > interested in providing organizational leadership at any level.
> >
> > Thinking of GPSL-2004 EBE/EBBE, as I understand it there will be several
> > payloads time-slotting telemetry transmissions on 144.34. From what I think
> > I understand, this time-slotting will create near 100% loading on 144.34.
> > If my feel for this is close to correct, there will be no time available for
> > digipeating UI packets. Assuming you folks fly on Saturday morning, I will
> > attempt to receive as many downlinks as possible and report results.
> >
> > TNX es 73 de Ralph W0RPK
> >
> >
> >
> > ----- Original Message -----
> > From: "Mike Manes" <manes@...>
> > To: "Ralph Wallio, W0RPK" <wallio@...>
> > Cc: "Mark Conner, N9XTN" <mconner1@...>; "Paul Verhage KD4STH"
> > <verhap@...>; "Rick von Glahn N0KKZ" <rick@...>
> > Sent: Friday, June 25, 2004 8:47 PM
> > Subject: Re: [Balloon_Sked] Re: Requesting Advice and Guidance
> >
> >
> > Hi Ralph,
> >
> > The FAQ would be a great service of a national balloon group -- there's
> > been some talk about discussing that possiblity at GPSL. It's prolly
> > way premature, but since yer not gonna be at the conference, I think
> > we oughta elect YOU El Presidente of this as-yet-to-be-named ARRL of
> > Balloonacy :=}
> >
> > Will you second Ralph's nomination, Paul??
> >
> > It's a long haul to Hutchinson, but if you wanna try an EBE or EBBE,
> > W5VSI-11 will have digi EOSS, node BALNOD and BBS BALBOX in the air on
> > 144.34, and I >hope< to have W5VSI-1 keyboard on the ground, if we
> > can make room in Rick's SUV. It's running 0.35W to a 1/4 wave whip, if
> > you wanna run a link analysis.
> >
> > 73 de Mike W5VSI
> >
> >
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

788. Re: [GPSL] Helium order for this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-29 18:54:11 UTC
From: Mike Manes
Topic: 777 Message: 788

Hi Paul,

If all goes as planned, EOSS will need only about 60-70 cu ft out
of its 2nd K bottle; but we'll also be filling a 100 gm pibal with
under 20 CF. You can have what's left over after we tie off.

73 de Mike W5VSI

paul.verhage@... wrote:
>
> I ordered my second tank as a spare. If anyone has any spare gas, please let me
> know. I'll reimburse you and save money by not cracking my second tank.
>
> Paul
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

789. GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 18:59:58 UTC
From: Harry M
Topic: 599 Message: 789

I have decided to drive my Jeep and will have
tracking capability for the chase at GPSL. I have
room for a co-pilot if anyone wants to ride along.

I will also have my usual recovery backpack
including limb saw, climbing spikes & rope.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
---

790. Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 21:04:35 UTC
From: n9xtn@cox.net
Topic: 790 Message: 790

Over the last 2-3 days there has been persistent shower and thunderstorm activity over south-central Kansas. This should begin to diminish on Friday and Saturday could be dry. If nothing else, the high pressure starting to move in late Friday should keep the showers confined to the afternoon.

There is still a lot of variation in the wind forecasts. I think the surface winds will be quiet enough to let us launch at 8:45am. At the moment, Sunflower should be OK as the forecast tracks will be to the south or southeast but not as far as Wichita. It's possible, though, that we'd have to use McPherson if the upper winds get a little stronger.

Morning temps should be about 70 at 8am and into the mid 80s by noon. It should be relatively humid, and with the recent rainfall you may need mud boots to go out in the fields. Should be a mix of sun and clouds.

I'll be heading to Hutchinson with my wife and daughter after lunch tomorrow and should arrive around 7pm. I'll give a shout on 147.12+ when I'm in range.

Anyone else having trouble reaching the rckara.org site this afternoon? I haven't been able to get on since about 1pm CDT - it worked earlier in the day.

73 de Mark N9XTN

791. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 21:46:02 UTC
From: Bob 2OK119
Topic: 599 Message: 791

If you have not found someone to ride with you I woud like to ride alog with you.....
Thanks

Bob Hill
----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Wednesday, June 30, 2004 1:59 PM
Subject: [GPSL] GPSL

I have decided to drive my Jeep and will have
tracking capability for the chase at GPSL. I have
room for a co-pilot if anyone wants to ride along.

I will also have my usual recovery backpack
including limb saw, climbing spikes & rope.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

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a.. To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

b.. To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

792. RE: [GPSL] Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 22:02:05 UTC
From: Rick von Glahn
Topic: 790 Message: 792

I've been doing forecasts too and I agree that if we get the expected winds AND the flights all make it to 90K+ feet we're ok, however, there is a substantial easterly wind component above 65K. If a balloon were to burst at 65K its touchdown is now in central Wichita.

Food for thought.

That prediction is based on the GFS 0-84 hr run at around 20 UTC today (6/30). I tried to do a prediction just now but wind data isn't coming through at READY.

And, the "http://www.rckara.org/project_traveler/gpsl/" site worked a few seconds ago.

73 -- Rick, NØKKZ

```
----------------------------
| NEW EMAIL ADDRESS IS |
| rick@... |
| Take note |
----------------------------
```

> -----Original Message-----
> From: n9xtn@... [mailto:n9xtn@...]
> Sent: Wednesday, June 30, 2004 2:05 PM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] Forecast for Friday and Saturday

...snip...

> There is still a lot of variation in the wind forecasts. I
> think the surface winds will be quiet enough to let us launch
> at 8:45am. At the moment, Sunflower should be OK as the
> forecast tracks will be to the south or southeast but not as
> far as Wichita. It's possible, though, that we'd have to use
> McPherson if the upper winds get a little stronger.

...snip...

> Anyone else having trouble reaching the rckara.org site this
> afternoon? I haven't been able to get on since about 1pm CDT
> - it worked earlier in the day.
>
> 73 de Mark N9XTN

793. Re: [GPSL] Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 22:32:49 UTC
From: Mark Conner
Topic: 790 Message: 793

The 18Z Eta run shows a landing near Cheney for at 90kft burst, but about 4 mi W of ICT if it bursts at 60-65 kft. The 12Z GFS is indeed closer to Wichita for a 90kft burst and if it burst at 60kft the landing would be just inside the I-235 loop on the northwest side of the city.

Blue Sky would work fairly well in this case, as the landings would be about 10 mi S or SE of Hutchinson (and not far from the reservior in some cases). McPherson would be better, but that's a half-hour earlier we'll have to get up Saturday. I think the final decision will have to be made Friday afternoon - there's just too much variation from one run to the next to make it now.

The rckara.org site is working for me now.

73 de Mark N9XTN

----- Original Message -----
From: "Rick von Glahn" <rick@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 30, 2004 17:02
Subject: RE: [GPSL] Forecast for Friday and Saturday

I've been doing forecasts too and I agree that if we get the expected winds
AND the flights all make it to 90K+ feet we're ok, however, there is a
substantial easterly wind component above 65K. If a balloon were to burst at
65K its touchdown is now in central Wichita.

Food for thought.

That prediction is based on the GFS 0-84 hr run at around 20 UTC today (6/30).
I tried to do a prediction just now but wind data isn't coming through at
READY.

And, the "http://www.rckara.org/project_traveler/gpsl/" site worked a few
seconds ago.

73 -- Rick, N?KKZ

| NEW EMAIL ADDRESS IS |

```
| rick@... |
| Take note |
----------------------------
```

794. Re: [GPSL] Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 22:55:00 UTC
From: Harry M
Topic: 790 Message: 794

Hi Mark,

Where are you staying?

I have had no problem getting on the rckara site today.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

>
> I'll be heading to Hutchinson with my wife and daughter after lunch tomorrow and should arrive around 7pm. I'll give a shout on 147.12+ when I'm in range.
>
> Anyone else having trouble reaching the rckara.org site this afternoon? I haven't been able to get on since about 1pm CDT - it worked earlier in the day.
>
> 73 de Mark N9XTN

795. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 22:57:43 UTC
From: Harry M
Topic: 599 Message: 795

Hi Bob,

Sounds good to me.
See you at GPSL.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

----- Original Message -----
From: Bob 2OK119
To: GPSL@yahoogroups.com
Sent: Wednesday, June 30, 2004 4:46 PM
Subject: Re: [GPSL] GPSL

If you have not found someone to ride with you I woud like to ride alog with you.....
Thanks

Bob Hill

796. GPSL HCC Campus

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 23:10:26 UTC
From: Harry M
Topic: 796 Message: 796

What building/room at the Community College are we meeting at?
Campus map... http://www.hutchcc.edu/about/maps/campusmap.gif

Is there a specific parking lot to use?
Campus parking map... http://www.hutchcc.edu/about/maps/parking1.gif

---
Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
---

797. Re: [GPSL] GPSL HCC Campus

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 23:19:03 UTC
From: Zack Clobes
Topic: 796 Message: 797

It's at the very south end of building 7 (Shears Technology). I expect
the parking just west of the building to be open throughout the day.

Zack

Harry M wrote:

>
> What building/room at the Community College are we meeting at?
> Campus map... http://www.hutchcc.edu/about/maps/campusmap.gif
>
> Is there a specific parking lot to use?
> Campus parking map... http://www.hutchcc.edu/about/maps/parking1.gif
>
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
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>

798. Re: [GPSL] GPSL HCC Campus

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 23:37:12 UTC
From: Zack Clobes
Topic: 796 Message: 798

Okay, a picture is worth a thousand words. I've posted a annotated map on the "Getting to Hutchinson" part of the site.

http://www.rckara.org/project_traveler/gpsl/travel.asp

Zack

Zack Clobes wrote:

It's at the very south end of building 7 (Shears Technology). I expect
the parking just west of the building to be open throughout the day.

Zack

Harry M wrote:

What building/room at the Community College are we meeting at?
Campus map... http://www.hutchcc.edu/about/maps/campusmap.gif

Is there a specific parking lot to use?
Campus parking map... http://www.hutchcc.edu/about/maps/parking1.gif

-----
Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

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799. Re: [GPSL] GPSL HCC Campus

Yahoo group: GPSL (2002 — 2008)
Date: 2004-06-30 23:43:11 UTC
From: Harry M
Topic: 796 Message: 799

Thanks Zack!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Subject: Re: [GPSL] GPSL HCC Campus

> It's at the very south end of building 7 (Shears Technology). I expect
> the parking just west of the building to be open throughout the day.
>

800. Re: [GPSL] GPSL HCC Campus

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 01:38:33 UTC
From: Don Pfister
Topic: 796 Message: 800

Zack Clobes wrote:

> Okay, a picture is worth a thousand words. I've posted a annotated map on the
> "Getting to Hutchinson" part of the site.
>
> http://www.rckara.org/project_traveler/gpsl/travel.asp
>
> Zack
>

Zack, I think some of us were just going to go down I-35 to Emporia and accross. I don't remember the road down there but that's how I came down before. Are the ways you listed better?

73
Don

801. Re: [GPSL] GPSL HCC Campus

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 02:35:57 UTC
From: Zack Clobes
Topic: 796 Message: 801

That's probably the fastest. If you come in on 50 through Newton, be careful out around Peabody. There's some construction out there and in the last week, something like 7 people have died in wrecks due to the construction.

ZC

Don Pfister wrote:

>Zack Clobes wrote:
>
>
>
>>Okay, a picture is worth a thousand words. I've posted a annotated map on the
>>"Getting to Hutchinson" part of the site.
>>
>>http://www.rckara.org/project_traveler/gpsl/travel.asp
>>
>>Zack
>>
>>
>>
>
>Zack, I think some of us were just going to go down I-35 to Emporia and accross.
>I don't remember the road down there but that's how I came down before. Are the
>ways you listed better?
>
>73
>Don
>
>
>
>
>
>Yahoo! Groups Links
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>
>
>
>

802. New possible launch site

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 02:41:36 UTC
From: Zack Clobes
Topic: 802 Message: 802

Another option came up in a discussion tonight of using the Hutch airport. I won't be able to get authorization until tomorrow, but if it works out:
* We'd have unlimited hangar space
* We could deliver helium the night before and have it ready. We could also leave the bottles there after the launch.
* We would have access to telephones, AC mains, bathrooms, etc
* We could drive a few vehicles out on the ramp if necessary.
* It's in town.

The ?down? side is that it is a controlled airspace (Class D) with a control tower. On the other hand, I talk to them before every launch and they've always been very understanding and helpful.

Any thoughts?

Zack

803. Re: [GPSL] Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 02:56:19 UTC
From: Mike Manes
Topic: 790 Message: 803

I agree. We should avoid forecast overflight of any population
centers and "no fly" zones for just that reason. 73 de Mike W5VSI

Rick von Glahn wrote:
>
> I've been doing forecasts too and I agree that if we get the expected winds
> AND the flights all make it to 90K+ feet we're ok, however, there is a
> substantial easterly wind component above 65K. If a balloon were to burst at
> 65K its touchdown is now in central Wichita.
>
> Food for thought.
>
> That prediction is based on the GFS 0-84 hr run at around 20 UTC today (6/30).
> I tried to do a prediction just now but wind data isn't coming through at
> READY.
>
> And, the "http://www.rckara.org/project_traveler/gpsl/" site worked a few
> seconds ago.
>
> 73 -- Rick, N?KKZ
>
> ----------
> | NEW EMAIL ADDRESS IS |
> | rick@... |
> | Take note |
> ----------
>
>
> > -----Original Message-----
> > From: n9xtn@... [mailto:n9xtn@...]
> > Sent: Wednesday, June 30, 2004 2:05 PM
> > To: gpsl@yahoogroups.com
> > Subject: [GPSL] Forecast for Friday and Saturday
>
> ...snip...
>
> > There is still a lot of variation in the wind forecasts. I
> > think the surface winds will be quiet enough to let us launch
> > at 8:45am. At the moment, Sunflower should be OK as the
> > forecast tracks will be to the south or southeast but not as
> > far as Wichita. It's possible, though, that we'd have to use
> > McPherson if the upper winds get a little stronger.
>
> ...snip...
>

> > Anyone else having trouble reaching the rckara.org site this
> > afternoon? I haven't been able to get on since about 1pm CDT
> > - it worked earlier in the day.
> >
> > 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

804. [Fwd: [EOSS] HUT Observation web page]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 02:58:46 UTC
From: Mike Manes
Topic: 804 Message: 804

Thanks, Randy. I'm forwarding this on to the GPSL reflector. Mike

Randy Collander wrote:
>
> I will not be able to provide any forecasting support for GPSL, but I
> will temporarily be hosting an Observation web page for anyone who wants
> to monitor conditions in the Hutchinson KS area. This page is similar
> to the Deer Trail (and other) web pages and can be found at
> http://bolas.fsl.noaa.gov/mab/sdb/briefhut.htm .
>
> Flight predictions for this and other upcoming EOSS flights are
> available by clicking the "Predictions" link, or you may go directly to
> http://bolas.fsl.noaa.gov/mab/sdb/predict.htm . Predictions are updated
> automatically as new numerical model forecast winds become available.
>
> Comments welcomed.
>
> rC
> --
> "I'm Randall S. Collander and I approved this message."
>
> ____
> Randall Collander, Meteorologist, Denver-Boulder AMS Treasurer
>
> NOAA/OAR/FSL
>
> 325 Broadway R/FS1 Go CC!!
> Boulder CO 80305
>
> 303.497.5960
> 303.910.8401 Cell
>
> randall.s.collander@...
>
> "St Lawrence used to be called the Larries, and I don't know why
> they dropped it. I think Larry of the Three Stooges would have
> been a great mascot."
> -- Joe Marsh, St. Lawrence Men's Hockey Coach
>
> ____
>
>
>
> Yahoo! Groups Links
>

>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

805. Re: [GPSL] Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 02:46:24 UTC
From: Mike Manes
Topic: 790 Message: 805

Hi Mark,

Have you marked out the Class A airspace around Wichita airport and
the McConnell AFB A-683 resticted area as "no fly zones" for GPSL?

73 de Mike W5VSI

n9xtn@... wrote:
> At the moment, Sunflower should be OK as the forecast tracks will be to the south or southeast but not as far as Wichita. It's possible, though, that we'd have to use McPherson if the upper winds get a little stronger.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

806. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 02:00:43 UTC
From: Mike Manes
Topic: 599 Message: 806

Hi Harry,

That's excellent! Those tools are not part of the normal EOSS
recovery kit (wot's a "limb"??).

73 es CU Fri (maybe Thu after 2100?) de Mike W5VSI

> Harry M wrote:
>
>
> I have decided to drive my Jeep and will have
> tracking capability for the chase at GPSL. I have
> room for a co-pilot if anyone wants to ride along.
>
> I will also have my usual recovery backpack
> including limb saw, climbing spikes & rope.
>
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
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> Service.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

807. Re: [GPSL] Forecast for Friday and Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 04:21:47 UTC
From: Zack Clobes
Topic: 790 Message: 807

The airspace around Wichita is actually class C (Class A is everywhere from FL180 to FL600). And, as I recall, the area around McConnell is simply an alert area because of the heavies going in an out of there. There are no gunnery ranges or restricted areas - in fact that side of town is quite rich in GA traffic coming off of Jabarra and ?Beech? Field.

As for avoiding populations, that's a nice thought but impossible. If a payload is destined to cause damage, it's going to cause as much damage to a farm house as it is in downtown Wichita.

I'm not advocating projecting a flight to land in downtown Wichita, all I'm saying is that this is a business of calculated risks. We run the risk of causing thousands of dollars in damages and even death the INSTANT we let go of the capsule. Besides, I'm not convinced that our predictions are good enough to be that picky. At best, PT has had +/- 2 miles, which is more than enough to be inside or outside of 95% of the towns in Kansas.

Zack

Mike Manes wrote:

>Hi Mark,
>
>Have you marked out the Class A airspace around Wichita airport and
>the McConnell AFB A-683 resticted area as "no fly zones" for GPSL?
>
>73 de Mike W5VSI
>
>n9xtn@... wrote:
>
>
>> At the moment, Sunflower should be OK as the forecast tracks will be to the south or southeast but not as far as Wichita. It's possible, though, that we'd have to use McPherson if the upper winds get a little stronger.
>>
>>
>
>
>

808. WB8ELK balloon status

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 08:41:32 UTC
From: wb8elk@aol.com
Topic: 808 Message: 808

Due to my insane work schedule this past month and particularly this week (17 hour work day yesterday), I won't be flying a balloon this year at GPSL since I have to fly to Kansas instead of drive.....however, I will bring my micro-beacon (audio voice ID with 30 milliwatt FM transmitter on 144.31 MHz). If someone wants to fly it along with their payload for Saturday's flights, let me know Friday at the symposium....it weighs about 3 ounces with a lithium 9 Volt. If someone has an extra Ultralife lithium 9 volt or can pick one up at Radio Shack, please bring it on Friday...otherwise hopefully the Hutchinson Radio Shack will have some....they were sold out at my local store.

See you all there,

- Bill WB8ELK

809. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-01 14:47:36 UTC
From: Harry M
Topic: 599 Message: 809

Hey Mike,

Go ahead, rub it in! :)
Got trees?

One other item for recovery is a fishin' pole, but you wouldn't
know what that is either. Heehee!

CU @ GPSL

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Subject: Re: [GPSL] GPSL

> Hi Harry,
>
> That's excellent! Those tools are not part of the normal EOSS
> recovery kit (wot's a "limb"??).
>
> 73 es CU Fri (maybe Thu after 2100?) de Mike W5VSI

810. ANSR Presentation

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-02 01:31:11 UTC
From: kd7lmo
Topic: 810 Message: 810

Bill Brown asked me to put together a short Power Point presentation on the ANSR HF-APRS hardware. The following is a link to the document:

http://www.kd7lmo.net/GPSL2004.ppt

Can someone copy the presentation to a USB Flash Drive or floppy disk for Bill to use at his Friday presentation.

I'm not sure if he will be able to check is e-mail before tomorrow morning and I will be out of e-mail range in the next hour.

73s de KD7LMO
Michael Gray

811. Re: [GPSL] ANSR Presentation

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-02 02:47:23 UTC
From: Zack Clobes
Topic: 810 Message: 811

Got it. Thanks,
Zack

kd7lmo wrote:

>Bill Brown asked me to put together a short Power Point presentation
>on the ANSR HF-APRS hardware. The following is a link to the
>document:
>
>http://www.kd7lmo.net/GPSL2004.ppt
>
>Can someone copy the presentation to a USB Flash Drive or floppy disk
>for Bill to use at his Friday presentation.
>
>I'm not sure if he will be able to check is e-mail before tomorrow
>morning and I will be out of e-mail range in the next hour.
>
>73s de KD7LMO
>Michael Gray
>
>
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812. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-03 00:05:21 UTC
From: Bob 2OK119
Topic: 599 Message: 812

If any of you can get ahold of Harry can you give him my phone # and have him give me a call 316 650 5011 thanks
----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Wednesday, June 30, 2004 1:59 PM
Subject: [GPSL] GPSL

I have decided to drive my Jeep and will have
tracking capability for the chase at GPSL. I have
room for a co-pilot if anyone wants to ride along.

I will also have my usual recovery backpack
including limb saw, climbing spikes & rope.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

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813. Launch tomorrow will be from McPherson airport

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-03 02:02:53 UTC
From: Zack Clobes
Topic: 813 Message: 813

Plan on arriving by 7:30am. We will be launching by 8:45am.

Current projections show it coming down just on the far side of Newton.

Zack

814. Photos from today

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 01:43:11 UTC
From: 2OK119@oscarkilodxgroup.com
Topic: 814 Message: 814

If any one has any photos that have me in them I would apreachiate it
if you would send them to me.. Thanks
Bob Hill
Copenhagen4me@...
OR
2OK119@...

Just GPSL photos in the subject so I dont think its spam and go
delete happy you all know how that is thanks

815. Quick GPSL Update

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 02:04:31 UTC
From: Zack Clobes
Topic: 815 Message: 815

Just a quick update on GPSL...

For the most part, the event went just as planned. The conference was good and many shared some of the precious experience with the group.

Saturday's launch went smoothly from McPherson airport. A total of six payloads made it off the ground and five of which flew almost exactly as predicted. All (or at least almost all) payloads were recovered in a very timely manner - and that includes HABITAT, although I understand something got lost somewhere along the way. Don, feel free to explain.

Watch the RCKARA website for updates, photos, tracks, etc. There will also be write-ups in CQ-VHF and ATV Quarterly very soon. If any groups would like to send me log files, track maps, or photos, I will post them to the website, space permitting.

Thanks for everybody's help and participation..
Zack Clobes, W0ZC

816. [Fwd: [Fwd: [HABITAT_SkyLab] GPSL quick update]]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 03:52:42 UTC
From: Don Pfister
Topic: 816 Message: 816

Zack, not sure what was lost? I'm not sure how the balloons got away from us. ;-) Seemed like a bit of a surprised launch. Sorry we lost the other groups. We were hoping to find everyone for lunch. More info later.

Great job with GPSL 2004 (from what I was able to attend). Thanks for a fun time! Sorry we didn't get to spend more time with the other groups! I hope some of you got to meet our newest ham (not a new member he has been to GPSL 2001 and 2002 but 2004 as a licensed HAM!) Dean KC0SSI. We have another one working on his license too.

As some of you might have noted we have had about a 500 percent increase in members. I'm not sure of the final count of our group attending GPSL 2004 but I heard 15. Way to go people! Yellow shirts everywhere (and even a non-HABITAT shirt floating around ;-).

73 Don

Ralph, we flew two 1200 gr and a 300 gr combination, (total 2700 grams - almost 2 full T tanks) does that place anywhere on the records page? ;-)

Don Pfister wrote:

> Don Pfister wrote:
> >
> > I'm not sure if today's flight would quailfy as a "successful failure"
> > or a "failing success". Either way we launched, chased and recovered our
> > payload(s).
> >
> > After a very quick review of the camcorder, it seems we destroyed two
> > 8mm camcorders today. One on the ground and one in the air. The one in
> > the payload, did record about 5 minutes of audio and... well I don't
> > think it qualifies as video. However, there are some shadowy images in
> > the lower right corner, the rest of the screen is white. Basically the
> > power cord and some other shadows spining but I couldn't make them out.
> >
> > SOOO, keep and eye out at the garage sales and pawn shops for a new
> > camcorder. The optics don't have to work we can use an external camera
> > (not sure if it is good or not), if it will function as a VCR as this
> > one did.
> >
> > The 35mm camera would take two pictures and then go into power save
> > shutdown, before the third exposure command was issued. So we need to
> > work on the timing and control to keep the camera alive.
> >
> > I'll try to get some photos uploaded and more details tomorrow. My 1.75
> > hrs of sleep last night is all gone, not even much of a memory. Cris and

> > I are going to get some Zs and back at it tomorrow.
> >
> > Thanks to all those that helped, either in Hutch or elsewhere. IF you
> > didn't get your T-Shirt you should expect it this week or whenever we
> > can get together. Cris finished the last one about 3 a.m. this morning.
> > We were surprised there weren't any complains from the room next door in
> > the hotel. ;-)
> >
> > We'll try to start collecting and comparing data tomorrow. Get some rest
> > everyone it was a long drive. BUT FUN for me at least!
> >
> > 73
> > Don
> >

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[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigating Testing And Tracking)

817. log files?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 04:03:45 UTC
From: Don Pfister
Topic: 817 Message: 817

Any log files, and or photos, from todays flights would be appreicated. Since we were almost directly under our balloon, watching it for over an hour, we weren't able to copy many packets from it (the cone of silence I guess). ;-) What a flight!

73
Don

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[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

818. GPSL 2004 CD

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 14:40:08 UTC
From: Mark Conner
Topic: 818 Message: 818

I would like to put as much information and pictures as possible on to one CD for distribution. I'll send one copy free to each of the participating groups, and they can further copy it as they wish.

I'll have an FTP site set up in the near future where pictures can be uploaded. If you have pictures taken on film, getting a photo CD when you have it developed is an easy way to get digital copies of your pictures.

A big note of thanks to Zack W0ZC and Project Traveler for setting up this year's GPSL, and to the EOSS T&R members who headed south to help with the NSTAR payload recovery.

73 de Mark N9XTN

819. Re: [GPSL] GPSL 2004 CD

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 14:53:03 UTC
From: Jon Riley
Topic: 818 Message: 819

I and my family had much fun.Thank to ALL that came out to the soggy spot to launch.
Must do Launch ;)

Project:Traveler
Jon Riley AJ0NR
Brenda Riley KC0HKU
and the kids

Thanks Everyone

Jon

Mark Conner <n9xtn@...> wrote:
I would like to put as much information and pictures as possible
on to one CD for distribution. I'll send one copy free to each
of the participating groups, and they can further copy it as they
wish.

I'll have an FTP site set up in the near future where pictures
can be uploaded. If you have pictures taken on film, getting a
photo CD when you have it developed is an easy way to get digital
copies of your pictures.

A big note of thanks to Zack W0ZC and Project Traveler for
setting up this year's GPSL, and to the EOSS T&R members who
headed south to help with the NSTAR payload recovery.

73 de Mark N9XTN

Yahoo! Groups Links

820. Garmin GPS-18 - ok above 60kft?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 15:38:51 UTC
From: Mark Conner
Topic: 820 Message: 820

I think someone flew the new Garmin GPS-18 yesterday. How did it work above 60 kft? All the balloons I saw had good data above the magic altitude.

73 de Mark N9XTN

821. Re: [GPSL] Garmin GPS-18 - ok above 60kft?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 15:50:18 UTC
From: Jon Riley
Topic: 820 Message: 821

Testing is in progress, still.

Mark Conner <n9xtn@...> wrote:
I think someone flew the new Garmin GPS-18 yesterday. How did it
work above 60 kft? All the balloons I saw had good data above
the magic altitude.

73 de Mark N9XTN

Yahoo! Groups Links

822. Project: Traveler 2004d flight TOMORROW!!

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 16:04:20 UTC
From: Zack Clobes
Topic: 822 Message: 822

As it turns out, we wound up with an extra tank of helium at a good cost, and, Jon and I want to use it!

I dug into the GPS-18 last night and found two minor issues with it on the ground. The main issue was that I had it time-slotted for an odd second (55 seconds or so), however, once the unit got a good GPS lock, it was only outputting posits every 2 seconds, which happen to be on the even seconds. Therefore, it never found its slot.

So, in order to test this above 60k feet, Project: Traveler will be loading two small transmitters into a Kaysam 600g balloon with about 140cuft of helium.

I will try to get some predictions posted ASAP. We will plan on launching from the field east of the fairgrounds by 8:30am, weather permitting.

Zack Clobes, W0ZC
Project: Traveler

823. HELP!

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 17:54:57 UTC
From: Zack Clobes
Topic: 823 Message: 823

I'm trying to get the CQ-VHF article out the door by tomorrow. Can any of you fill in some details for me?

This was the ?FOURTH? GPSL?
2001 - ???
2002 - Manhattan/Herrington, KS
2003 - ?SOMEWHERE IN? Colorado
2004 - Hutch

?ALL? Payloads were recovered in their entirety? No significant damage to capsules or property?

A total of six APRS-equipped payloads:
W0WR-11 (Project: Traveler)
KD4STH-11 (Paul)
W5VSI-11 (EOSS)
N9XTN-11 (NSTAR)
KA0JLF-11 (HABITAT) - 3 balloons
KC5TRB-11 (Harry / Bill)

Any funny or interesting stories to include???

...more questions to come

Thanks,
Zack

824. FTP site for photo uploads

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 19:58:57 UTC
From: Mark Conner
Topic: 824 Message: 824

I've made an FTP site for uploading photos from this year's GPSL. FTP to n9xtn (dot) dyndns (dot) org. Your login ID will be your group name (EOSS, TRAVELER, ORB, HABITAT, IDAHO) and your password is the callsign and SSID you flew with your primary payload. All letters are caps, and the password includes the hyphen before the SSID. I didn't want to type everything out for fear of a password-harvesting program getting the information. If you have trouble with the FTP server let me know.

If anyone else not part of one of these groups would like to contribute pictures, e-mail me and I'll send you instructions.

Alternatively, you can e-mail me pictures at mark_conner (at) cox.net. You may be limited on file size and the mailbox limit.

73 de Mark N9XTN

825. First packet EBBE?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 20:46:43 UTC
From: Mark Conner
Topic: 825 Message: 825

During the GPSL flights yesterday, N9XTN and W0RPK communicated by unproto packet messages through the NSTAR and EOSS TNCs. Below is the text from my log file:

W0RPK>EN31FK,EOSS*,NSTAR:QRZ via EBBE de W0RPK

W0RPK>EN31FK,EOSS,NSTAR*:QRZ via EBBE de W0RPK

N9XTN-9>APS212,NSTAR*,EOSS:Hi Ralph

N9XTN-9>APS212,NSTAR,EOSS*:Hi Ralph

W0RPK>EN31FK,EOSS*,NSTAR:TNX Mark via EBBE

W0RPK>EN31FK,EOSS,NSTAR*:TNX Mark via EBBE

N9XTN-9>APS212,NSTAR*,EOSS:Got it Ralph - tnx

N9XTN-9>APS212,NSTAR,EOSS*:Got it Ralph - tnx

Ralph's QTH is near Indianola IA at approximately N41° 26.2' W93° 34.0' N9XTN-9 was located at N38° 01.92' W97° 20.27' at the time of the QSO. The NSTAR payload was at N38° 01.79' W97° 11.17 and EOSS was at N38° 12.30' W97°17.72.

The distance between the QSO stations was 308.7 statute miles and the balloons were 13.5 statute miles apart. Ralph's QTH was 298.1 miles from the EOSS balloon and N9XTN-9 was 8.24 miles from the NSTAR balloon.

73 de Mark N9XTN

826. Re: [GPSL] HELP!

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 23:14:23 UTC
From: Harry M
Topic: 823 Message: 826

Zack,

Here are some quick figures for the KC5TRB-11 flight.
Thanks again for doing such a great job for GPSL!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Official Landing Prediction (previously submitted):
37.8939N / 97.2052W

Launch:
KC5TRB-11>APT310,RELAY,WIDE3-3:/140348h3821.60N/09741.17WO128/006/A=001558/O
RB Balloon
KC5TRB-11>APT310,RELAY,WIDE3-3:/140418h3821.58N/09741.14WO030/000/A=002270

Initial Ascent Rate:
1,280 fpm from 2,270 ft to 6,000 ft
1,320 fpm from 6,000 ft to 9,300 ft

Launch to Burst Ascent Rate:
1481.6481 fpm (14:04 / 14:58)

Highest altitude:
KC5TRB-11>APT310,N0KTA*,WIDE3-1,qAo,N0KTA-2:/145835h3812.65N/09728.77WO297/0
26/A=081559/ORB Balloon

Landing:
KC5TRB-11>APT310,RELAY,WIDE3-3:/154824h3806.05N/09717.76WO240/000/A=001512/O
RB Balloon

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827. Re: [GPSL] log files?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-04 23:22:22 UTC
From: Harry M
Topic: 817 Message: 827

Don,

It was good to see you again.
Kinda hard to see you though, with that off-color shirt and all! :)

Here's the RAW data from FindU last night.
I will not get to my mobile log for several days.

Chow!
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Raw Data: KA0JLF-1120040703140426,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/140424h3821.55N/0974
1.14WO154/006/A=002453
20040703140525,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/140524h3821.31N/09741.00WO145/020/A=0037
26
20040703140625,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/140624h3821.03N/09740.81WO160/018/A=0049
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83
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20040703142725,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/142724h3811.82N/09729.50WO115/038/A=0332
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02
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91
20040703154134,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/154124h3805.40N/09745.87WO277/027/A=068
270
20040703154226,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/154224h3805.48N/09746.44WO280/027/A=068
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844
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65

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20040703155132,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/155124h3806.01N/09750.70WO275/022/A=068
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20040703155327,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/155324h3806.09N/09751.67WO277/024/A=069
103
20040703155426,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/155424h3806.15N/09752.17WO278/024/A=0691
91
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264
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237
20040703155826,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/155824h3806.47N/09754.37WO278/028/A=069
241
20040703160035,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/160024h3806.67N/09755.54WO285/028/A=069
267
20040703160141,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/160124h3806.82N/09756.12WO289/029/A=069
283
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287
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306
20040703160625,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/160624h3807.69N/09759.06WO295/029/A=0694
90
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93
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500
20040703160925,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/160924h3808.31N/09800.66WO297/027/A=0695
06
20040703161026,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/161024h3808.54N/09801.17WO299/027/A=0696
41
20040703161125,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/161124h3808.77N/09801.66WO303/027/A=0698
21
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72
20040703161325,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/161324h3809.28N/09802.59WO306/026/A=0700
64
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84
20040703161526,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/161524h3809.81N/09803.48WO308/025/A=0700
90
20040703161625,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/161624h3810.07N/09803.89WO308/025/A=0701
56
20040703161725,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/161724h3810.33N/09804.31WO308/024/A=0703
20

20040703161827,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/161824h3810.58N/09804.70WO308/024/A=070
392
20040703161926,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/161924h3810.83N/09805.09WO310/023/A=070
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20040703162032,KA0JLF-11>APT311,WIDE2-2,qAR,AB0XK:/162024h3811.08N/09805.45WO312/022/A=070
399
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395
20040703162225,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162224h3811.58N/09806.12WO314/021/A=0704
45
20040703162325,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162324h3811.82N/09806.45WO312/021/A=0705
00
20040703162425,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162424h3812.06N/09806.79WO310/021/A=0705
30
20040703162535,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162524h3812.28N/09807.14WO308/021/A=0705
37
20040703162625,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162624h3812.50N/09807.49WO308/020/A=0705
27
20040703162725,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162724h3812.70N/09807.84WO304/020/A=0705
33
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63
20040703162926,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/162924h3813.07N/09808.54WO303/020/A=0706
48
20040703163025,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/163023h3813.25N/09808.91WO300/020/A=0706
68
20040703163125,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/163124h3813.43N/09809.30WO299/021/A=0706
42
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01
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14
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06
20040703163725,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/163724h3814.20N/09811.79WO287/020/A=0709
96
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20040703163925,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/163924h3814.41N/09812.57WO291/018/A=0710
29
20040703164026,KA0JLF-11>APT311,WIDE2-2,qAR,W0ZC:/164023h3814.54N/09812.95WO314/052/A=0693
56

828. Re: [GPSL] HELP!

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 00:34:25 UTC
From: Don Pfister
Topic: 823 Message: 828

Zack Clobes wrote:

> I'm trying to get the CQ-VHF article out the door by tomorrow. Can any
> of you fill in some details for me?
>
> This was the ?FOURTH? GPSL?
> 2001 - ??? ****--- Manhattan Johnson NEAR SPACE center!****

See my added detail? ^^^^^^^^^^^^

>
> 2002 - Manhattan/Herrington, KS
> 2003 - ?SOMEWHERE IN? Colorado
> 2004 - Hutch
>
> ?ALL? Payloads were recovered in their entirety? No significant damage
> to capsules or property?

Roger for HABITAT SkyLab. Will report more later. Damage yes, but due to me I think, not flight related.

> A total of six APRS-equipped payloads:
> W0WR-11 (Project: Traveler)
> KD4STH-11 (Paul)
> W5VSI-11 (EOSS)
> N9XTN-11 (NSTAR)
> KA0JLF-11 (HABITAT) - 3 balloons
> KC5TRB-11 (Harry / Bill)
>
> Any funny or interesting stories to include???
>

Yes, how much time do I have to get it to you. Tomorrow ok?

There was a unexpected launch of a handheld camcorder but quickly jettisoned by the capsule (I guess the mission commander, Glory - McDonald beanie baby, aborted that extra payload). Some damage to the shroud line ring, possibly from launch.

One of our earliest members (attended/assisted at GPSL 2001 and 2002) received his callsign KC0SSI issued 7/1/04 just in time for GPSL 2004. We have at least one additional member working on his license. This makes about 5 or 6 hams from our group. Something I personally am proud of. With lots more interest. We have increased in membership about 500% this year. Our pre-launch balloon nets on a local repeater is well attended, with remote stations checking in via web links. In addition, we had 5 members at GPSL 2001 (if memory serves me, I'll have to look at the photos again - nice thing about yellow shirts easy to spot - just

have to watch out for wrong color yellow ;-), We had at least 12, I think someone told me 15, at GPSL 2004.

> ...more questions to come
>
> Thanks,
> Zack

I'll be writing tomorrow myself (if not tonight). I'll try to send you something.

Don
--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

829. Re: [GPSL] HELP!

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 00:41:58 UTC
From: Zack Clobes
Topic: 823 Message: 829

Sounds good on the story. I need to get it to them by tomorrow evening - after our launch of course.. :-)

Don Pfister wrote:

Zack Clobes wrote:

I'm trying to get the CQ-VHF article out the door by tomorrow. Can any of you fill in some details for me?

This was the ?FOURTH? GPSL?
2001 - ??? ****--- Manhattan Johnson NEAR SPACE center!****

See my added detail? ^^^^^^^^^^^^

2002 - Manhattan/Herrington, KS
2003 - ?SOMEWHERE IN? Colorado
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?ALL? Payloads were recovered in their entirety? No significant damage to capsules or property?

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A total of six APRS-equipped payloads:
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KD4STH-11 (Paul)
W5VSI-11 (EOSS)
N9XTN-11 (NSTAR)
KA0JLF-11 (HABITAT) - 3 balloons
KC5TRB-11 (Harry / Bill)

Any funny or interesting stories to include???

Yes, how much time do I have to get it to you. Tomorrow ok?

There was a unexpected launch of a handheld camcorder but quickly jettisoned by the capsule (I guess the mission commander, Glory - McDonald beanie baby, aborted that extra payload). Some damage to the shroud line ring, possibly from launch.

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...more questions to come

Thanks,
Zack

I'll be writing tomorrow myself (if not tonight). I'll try to send you something.

Don
--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

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----------~->

Yahoo! Groups Links

<*> To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

<*> To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

<*> Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

830. Great Time this last weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 03:57:56 UTC
From: Floyd Benjie Campbell
Topic: 830 Message: 830

Hi to all the gpsl attendees. I wanted to say that I had a great time this last weekend, attending the Friday presentations, and the Saturday flights. I really enjoyed the country and the friendly people that I have met. I want to thank the organizers of the event, you did a great job. I also want to say that I even enjoyed walking thru the very, very muddy cornfield in my stocking feet to help recover the EOSS balloon payload. The feel of the mud between my toes was great. When Paul showed us his boots during the Friday class room sessions, I thought, "Oh it can't be that bad!{" Well, it was, and I am a convert now, I will have a set of combat boots or rubber boots on my next flight. Thaks again for the fun and excitement. Benjie. W0CBH.

831. GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 11:43:42 UTC
From: Ralph Wallio, W0RPK
Topic: 831 Message: 831

I apologize for not being with you folks for GPSL-2004 but my dance card was full. I was able to finagle a few hours at home on Saturday morning to participate in telemetry reception and an EBBE QSO with N9XTN-9/m which Mark has discussed. Following are a few notes from my log:

14:48:24z KA0JLF-11 62,673ft 301.56-miles (1st packet rcvd)
14:50:07z KC5TRB-11 68,348ft 302.12-miles (1st packet rcvd)
14:51:54z W5VSI-11 56,135ft 297.79-miles (1st packet rcvd)
14:54z 1st successful digipeat via EOSS
15:01z EBBE QSO v EOSS, NSTAR with N9XTN-9
15:06:59z KD4STH-11 57,877ft 297.77-miles (1st packet rcvd)
15:31:31z N9XTN-11 51,785ft 294.24-miles (1st packet rcvd)

I continued to capture data but QSYed my attention to ANSR-20 which was launched at 16:00z with PSK-31 telemetry on 30, 20 and 17m. I copied frames on 30m and 20m but heard nothing on 17m (other stations report hearing 17m AOK). See http://www.kd7lmo.net/psk31.html for more information.

EOSS and TRAVELER were transmitting pure $GPGGA and $GPRMC GPS frames so I was able to plot their tracks with Street Atlas. It was interesting to watch their parallel westbound tracks before burst.

Our RECORDS page will be updated shortly (http://users.crosspaths.net/wallio/RECORDS.htm).

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

832. SSTV at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 16:46:52 UTC
From: Mark Conner
Topic: 832 Message: 832

----- Original Message -----
From: Guy Clark
Sent: Monday, July 05, 2004 11:40
Subject: Re: GPSL

QST de AB0DP;
The balloon SSTV pictures are now on my web site.
I did it this way to keep from emailing such a large volume,
and so you could let others see too. Please pass this
along to anyone you wish.

Use this URL: Slow Scan TV Beyond HF
Then click on the "Special Edition" link in the lower left.

73 de ABØDP, Guy

833. Project Traveler Monday Flight update

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 20:45:31 UTC
From: Jon Riley
Topic: 833 Message: 833

The flight was perfect.We were able to go above the 60k feet or 20k meters.

The primary pack had the W0WR-11 unit (vx-1r,7.4v Li-Ion batt. pack,Garmin 35lvc,and the controller)

The secondary that was the NEW hardware test had the AJ0NR-11 unit (radio shack HTX-200,7.4v Li-Ion batt.pack,Garmin 18 lvc,and the controller)

2 packs ,#3 3 oz total weight less balloon.
Burst about 78,520

Zack found the glitch in the 18lvc and got it working.100%

More info to follow.

Jon AJ0NR

834. GPSL Details ...

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 20:05:49 UTC
From: Mike Manes
Topic: 834 Message: 834

Hi Zack,

The 2003 GPSL was sponsored by EOSS, supported by Colorado Space Grant (whose payloads flew on some of the 6 GPSL flight strings), and we launched from the high school ball field at the S end of Deer Trail CO, just off I-70 50 mi E of Denver.

The actual landing site for EOSS's W5VSI-11 payload was just E of Hillside Rd between 1st and 12th St, E. of Newton KS. GPS location measured by the recovery crew was: 38d 02.950'N, 97d 17.654'W. The APRS module was on the deck between rows of 7 ft high corn, and had a rotten HDOP - so its reported lat/lon was about 150' or so off - in fact, it "wandered about" some in the hour between landing and recovery. Rick N0KKZ will have to get you his prediction and error range.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

835. ARRL "Big Project": Opportunity for balloon groups?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 04:32:23 UTC
From: Mike Manes
Topic: 835 Message: 835

Hi folks,

The League's "Big Project" aims to introduce ham radio to middle and secondary school students via "hands' on projects". This is the same tack that the NASA Space Grant Consortia take, as I presented last Friday at GPSL at HCC. If you draw a blank with your local Space Grant College, it might be worth offering a "balloonsat" program to your local middle or high schools under the Big Project. Kids seeing their creations soar towards the edge of space may be all it takes to bring them into the fold!

73 de Mike W5VSI
EOSS, an ARRL affiliated club

--- clip from ARRL letter Vol 23, No. 27 --- :=

=>ARRL SEEKS TO FUND NEW EDUCATION AND TECHNOLOGY PROGRAM INITIATIVES

The ARRL is seeking donations to equip ARRL Education and Technology Program (ETP) teachers to more effectively instruct students in wireless technology and to furnish them with activity kits that convey basic concepts. Instituted in 2001 as "The Big Project," the ETP now boasts nearly 100 participating schools, thanks to the generous support of ARRL members. In his travels around the US meeting with educators, Program Coordinator Mark Spencer, WA8SME, has learned that Amateur Radio as a catalyst for teaching wireless technology works best in an after-school setting. He's also has discovered that many teachers have been trained to
teach science but not wireless technology.

In a June appeal, ARRL CEO David Sumner, K1ZZ, explained that a lot of science teachers "are excited about what students can learn from Amateur Radio, but they are intimidated by this new world of wireless electronics.
They want to learn how to teach wireless communications."

ARRL Chief Development Officer Mary Hobart, K1MMH, puts it another way. "For some schools," she said, "it's a giant leap to go from zero to ham radio station."

The League has a two-pronged strategy to address the challenge. The first
is to debut a pilot ARRL Teachers Institute in August. The week-long seminar will immerse teachers in a curriculum that will have them studying
electronics, learning the basics of Amateur Radio and building projects. While generous donations have provided some funding for this initiative,

Hobart says the program still needs additional money to make the Teachers
Institute a reality. She hopes the ETP can find sufficient funding to keep
the institute and the program itself operating through 2005, "so the progress to date doesn't go to waste."

The second part of the plan is to provide participating teachers and schools with simple electronic activity kits that will give students hands-on experience as a stepping stone to deeper involvement in Amateur Radio and wireless technology. Each electronic project kit averages $350,
and more than 60 of them have gone out to 30 teachers and schools. Up until now, their cost has been subsidized by donations from the Newington
Amateur Radio League, the ARRL Foundation and individual donors. The project kits, Hobart says, have captured the imaginations of the students
and teachers alike.

"Next to defending our spectrum," she declared, "inspiring young people is
supremely important to the future of Amateur Radio."

Contributions can be made via the ARRL's secure donation Web site <https://www.arrl.org/forms/development/donations/education/index.html>. For more information, contact Mary Hobart, K1MMH, 860-594-0397.
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

836. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 04:01:39 UTC
From: Mike Manes
Topic: 599 Message: 836

Hi Harry,

Trees, schmrees .... Turns out we REALLY needed muckin' boots!

Great to see and work with ya this weekend. Wotta gas!

73 de Mike W5VSI

Harry M wrote:
>
> Hey Mike,
>
> Go ahead, rub it in! :)
> Got trees?
>
> One other item for recovery is a fishin' pole, but you wouldn't
> know what that is either. Heehee!
>
> CU @ GPSL
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
> Subject: Re: [GPSL] GPSL
>
> > Hi Harry,
> >
> > That's excellent! Those tools are not part of the normal EOSS
> > recovery kit (wot's a "limb"??).
> >
> > 73 es CU Fri (maybe Thu after 2100?) de Mike W5VSI
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.

Einstein

837. Re: [EOSS] First packet EBBE?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 19:18:40 UTC
From: Mike Manes
Topic: 837 Message: 837

Hi Mark,

Well, I guess congratulations are due, darnit! I tried twice to do an ARQ EBBE to N9XTN-9 but the link timed out due to the massive amount of traffic on 144.34. I guess EOSS's only consolation was the fact that the W5VSI-11/EOSS module was the first in the digi path from Ralph nearly 300 miles out; not too shabby for a 350 mw DJ-C1 into a 1/4 wave whip, huh?

BTW, it seems that Mark and Harry also did a UI EBBE, altho at a much closer range.

The next challenge will be to make an >>ARQ<< EBBE packet QSO ... We're on it ...

And I was gratified to see a 1023 fpm average ascent rate to 88,999.3 ft MSL reported from the on-board GGA log in the APRS module. Since our flight string was about 50 ft long and the APRS was at the bottom, I guess we can safely claim to have busted 89K'. Paul's 104K' was the kingmaker, however.

Another disappointment was loss of our ATV signal. Turned out that the BNC connector between the jack on the ATV module and the feedline simply came unscrewed during a rather traumatic launch - this despite the safety line to the BNC shell to prevent just that ... Murphy WILL have his way, won't he? Good news is that all three modules on the EOSS flight string came thru unscathed and remain fully functional.

Yet another great GPSL, and thanks to Zack and the rest of the team in making it happen. The EOSS guys are pumped to do it again in 2005 - if it's within a day's drive from Denver.

73 de Mike W5VSI
EOSS

Mark Conner wrote:
>
> During the GPSL flights yesterday, N9XTN and W0RPK communicated by unproto packet messages through the NSTAR and EOSS TNCs. Below is the text from my log file:
>
> W0RPK>EN31FK,EOSS*,NSTAR:QRZ via EBBE de W0RPK
>
> W0RPK>EN31FK,EOSS,NSTAR*:QRZ via EBBE de W0RPK
>
> N9XTN-9>APS212,NSTAR*,EOSS:Hi Ralph
>
> N9XTN-9>APS212,NSTAR,EOSS*:Hi Ralph

>
> W0RPK>EN31FK,EOSS*,NSTAR:TNX Mark via EBBE
>
> W0RPK>EN31FK,EOSS,NSTAR*:TNX Mark via EBBE
>
> N9XTN-9>APS212,NSTAR*,EOSS:Got it Ralph - tnx
>
> N9XTN-9>APS212,NSTAR,EOSS*:Got it Ralph - tnx
>
>
>
> Ralph's QTH is near Indianola IA at approximately N41? 26.2' W93? 34.0' N9XTN-9 was located at N38? 01.92' W97? 20.27' at the time of the QSO. The NSTAR payload was at N38? 01.79' W97? 11.17 and EOSS was at N38? 12.30' W97?17.72.
>
> The distance between the QSO stations was 308.7 statute miles and the balloons were 13.5 statute miles apart. Ralph's QTH was 298.1 miles from the EOSS balloon and N9XTN-9 was 8.24 miles from the NSTAR balloon.
>
> 73 de Mark N9XTN
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

838. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 21:26:47 UTC
From: Harry M
Topic: 599 Message: 838

Hi Mike,

I had a blast!
Great to have the opportunity to work with you and the EOSS team also.

Was that corn or small trees? :)

73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

> Hi Harry,
>
> Trees, schmrees .... Turns out we REALLY needed muckin' boots!
>
> Great to see and work with ya this weekend. Wotta gas!
>
> 73 de Mike W5VSI
>

839. W5VSI APRS LT and raw 144.34 packet logs

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-05 13:26:34 UTC
From: Mike Manes
Topic: 839 Message: 839
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Folks,

I've attached the GGA log from the W5VSI-11 APRS module and the raw 144.34 MHz packet log from the TNC in Rick N0KKZ's vehicle as zipped up text files. W5VSI-11 hit just shy of 89K' before burst.

And congratulations to Mark Conner for making two EBBE packet QSOs: one to Harry KC5TRB and then another with Ralph W0RKP, both via EOSS and NSTAR digis. My two attempts to work Mark EBBE timed out, tho.

The EOSS recovery from a muddy corn filed would have benefitted from the mucking boots that Paul got Friday, as pix on the EOSS web site will show shortly!

Great event, and looking forward to GPSL '05 - any takers?

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

840. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 01:07:33 UTC
From: Chris Krengel
Topic: 599 Message: 840

Hay Harry, is there any way that I can have you e-mail
your pictures of the Eoss recovery? I need the
pictures of the "children of the corn".
Thanks
Chris Krengel
kb0yrz
--- Harry M <hhm_74115@...> wrote:
>
> Hi Mike,
>
> I had a blast!
> Great to have the opportunity to work with you and
> the EOSS team also.
>
> Was that corn or small trees? :)
>
> 73
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
>
>
> > Hi Harry,
> >
> > Trees, schmrees .... Turns out we REALLY needed
> muckin' boots!
> >
> > Great to see and work with ya this weekend. Wotta
> gas!
> >
> > 73 de Mike W5VSI
> >
>
>
>
>

Do you Yahoo!?
Take Yahoo! Mail with you! Get it on your mobile phone.
http://mobile.yahoo.com/maildemo

841. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 01:19:16 UTC
From: Bob 2OK119
Topic: 599 Message: 841

Harry while your at it can you send the pictures of all of us to me while your at it thanks
Bob Hill
2OK001@...

----- Original Message -----
From: "Chris Krengel" <kb0yrz@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, July 05, 2004 8:07 PM
Subject: Re: [GPSL] GPSL

> Hay Harry, is there any way that I can have you e-mail
> your pictures of the Eoss recovery? I need the
> pictures of the "children of the corn".
> Thanks
> Chris Krengel
> kb0yrz
> --- Harry M <hhm_74115@...> wrote:
> >
> > Hi Mike,
> >
> > I had a blast!
> > Great to have the opportunity to work with you and
> > the EOSS team also.
> >
> > Was that corn or small trees? :)
> >
> > 73
> >
> > -----
> > Harry - KC5TRB - Tulsa
> > Oklahoma Research Balloons
> > http://members.cox.net/hhm_74775/orb/
> > -----
> >
> >
> >
> > > Hi Harry,
> > >
> > > Trees, schmrees .... Turns out we REALLY needed
> > muckin' boots!
> > >
> > > Great to see and work with ya this weekend. Wotta
> > gas!
> > >

> > > 73 de Mike W5VSI
> > >
> >
> >
> >
> >
>
>
>
>
> ___________________________________
> Do you Yahoo!?
> Take Yahoo! Mail with you! Get it on your mobile phone.
> http://mobile.yahoo.com/maildemo
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>

842. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 03:39:58 UTC
From: Harry M
Topic: 599 Message: 842

Hi Chris,

I had a great time! Looking forward to next year.

I will send the pics when I get the film developed and get them scanned.
I took them in today and they will be ready in a couple days.

73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

> Hay Harry, is there any way that I can have you e-mail
> your pictures of the Eoss recovery? I need the
> pictures of the "children of the corn".
> Thanks
> Chris Krengel
> kb0yrz

843. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 03:41:28 UTC
From: Harry M
Topic: 599 Message: 843

Hi Bill,

Nice to have you along on the flight.
I will send the pics to you as well.

73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

> Harry while your at it can you send the pictures of all of us to me
while
> your at it thanks
> Bob Hill

844. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 03:49:48 UTC
From: Harry M
Topic: 599 Message: 844

Bob,

Sorry about calling you Bill. I threw Bob & Hill together. :)

> Hi Bill,
>

845. ORB GPSL Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 03:47:05 UTC
From: Harry M
Topic: 845 Message: 845

If you have pics of the ORB pre-launch & launch, please send them to me via email.

I can't remember who all was taking pictures of the ORB and EOSS recovery,
so if you have any pics, please send them to me via email.

Thanks!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
---

846. Re: [GPSL] GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 13:21:40 UTC
From: Mike Manes
Topic: 831 Message: 846

Hi Ralph,

Well, congratulations on making the fisrt packet EBBE, altho I'm kinda
disappointed that my two attempts failed .... guess I shoulda had
the W5VSI-1 station in Rick's car beaconing from time to time. I
didn't notice your QSO with Mark until I perused the 144.34 log file
after returning to Denver.

It was nice to learn that the W5VSI-11 beacon made the path your way
at a lower altitude than the others. Coulda done it even lower had
I used the 3W radio and a J-pole! Note that I did have the BALBOX
PBBS running on that module -- coulda dropped me line ...

The next step will be a true ARQ packet QSO!

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> I apologize for not being with you folks for GPSL-2004 but my dance card was
> full. I was able to finagle a few hours at home on Saturday morning to
> participate in telemetry reception and an EBBE QSO with N9XTN-9/m which Mark
> has discussed. Following are a few notes from my log:
>
> 14:48:24z KA0JLF-11 62,673ft 301.56-miles (1st packet rcvd)
> 14:50:07z KC5TRB-11 68,348ft 302.12-miles (1st packet rcvd)
> 14:51:54z W5VSI-11 56,135ft 297.79-miles (1st packet rcvd)
> 14:54z 1st successful digipeat via EOSS
> 15:01z EBBE QSO v EOSS, NSTAR with N9XTN-9
> 15:06:59z KD4STH-11 57,877ft 297.77-miles (1st packet rcvd)
> 15:31:31z N9XTN-11 51,785ft 294.24-miles (1st packet rcvd)
>
> I continued to capture data but QSYed my attention to ANSR-20 which was
> launched at 16:00z with PSK-31 telemetry on 30, 20 and 17m. I copied frames
> on 30m and 20m but heard nothing on 17m (other stations report hearing 17m
> AOK). See http://www.kd7lmo.net/psk31.html for more information.
>
> EOSS and TRAVELER were transmitting pure $GPGGA and $GPRMC GPS frames so I
> was able to plot their tracks with Street Atlas. It was interesting to
> watch their parallel westbound tracks before burst.
>
> Our RECORDS page will be updated shortly
> (http://users.crosspaths.net/wallio/RECORDS.htm).
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...

> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

847. Re: [GPSL] GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 15:25:50 UTC
From: Ralph Wallio, W0RPK
Topic: 831 Message: 847

Mike,

I combed through your log file and do not find evidence of an EBBE QSO between Mark and Harry. Here is the closest detail I find (with bracketing timestamps):

W5VSI-11>APRS:
$GPGGA,145854,3812.3034,N,09717.7120,W,1,07,1.08,18886.4,M,-27.0,M,,*44

N9XTN-9>APS212,NSTAR*,EOSS:
KC5TRB-2 :Hi Harry{1q}

N9XTN-9>APS212,NSTAR,EOSS*:
KC5TRB-2 :Hi Harry{1q}

KC5TRB-2>APW247,K0ANI-14*,WIDE3-3:
:N9XTN-9 :ack1q}

WA0GEH-9>APS215,RELAY,WIDE3-3:
@040258z3757.34N/09719.10W>000/000/A=001424 EOSS80,Tracking Coordinator

N9XTN-9's APRS UI packet successfully transited NSTAR,EOSS but KC5TRB-2's APRS ACK via K0ANI-14 was not repeated by NSTAR. If anyone has a log file with the required EBBE evidence please forward it to me so Mark and Harry get credit they deserve.

I believe allowing UI-packet QSOs for records is very similar to the long-standing METSCAT protocol of repeatedly transmitting required information each way for up to 30sec of each minute until a QSO is complete (or the stations give up). The UI-packet method was first used for QSOs back in 1984 when Bob Carpenter, W3OTC, and I competed the first of several METSCAT QSOs on 6m between Des Moines and Washington D.C. areas and when Rich Zwirko, K1HTV/3, and I completed the first (maybe the only) METSCAT QSO on 2m also between Des Moines and Washington D.C. areas.

(As another proof of the advantage 6m has over 2m for METSCAT paths, Bob and I transferred 3k+bytes of data over a CONNECTED packet radio link -with ACKs- while Rich and I struggled to complete a minimal UI-packet QSO over a period of 2-1/2 hours during a meteor shower.)

Use of UI-packets for QSOs by savvy operators seems much more efficient than repeated connect attempts as well as repeated packet transmissions and ACKs. Data integrity resulting from connected state can be valuable but minimal QSO requirements are a very different animal. I propose we establish the standard and encourage use of UI-packets for QSO records.

Regarding the traffic load on 144.34, using the single channel for telemetry, digipeating, et. al., seems to work AOK when there is only one,

or maybe two, balloon(s) aloft at the same time. Telemetry from ~six balloons at GPSL with lots of digipeating from the multitude of chase vehicles creates a very different situation. Time-slotting of telemetry appears to become a moot point when there are as many digipeated packets (let alone failed digipeating attempts) as we repeatedly experience at GPSL. I heard numerous packet crashes so CSMA was not completely effective. I don't have an immediate comprehensive answer to the problem but will keep thinking.

TNX es 73 de Ralph W0RPK

848. Re: [GPSL] GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 16:15:38 UTC
From: n9xtn@cox.net
Topic: 831 Message: 848

I'll check my logs to see if the return ack from Harry went through both balloons. I guess the question is whether an automated response from a program should count as a QSO, or whether it should require manual input of a message.

There were several reasons for having many collisions on 144.34 last Saturday.

1) KD4STH-11 was beaconing much more than intended. I think there were 6-8 packets per minute from his payload.

2) Time slotting not fully implemented. I believe both KD4STH-11 and W0WR-11 were not slotted.

3) Deaf systems. AFAIK, only W5VSI-11 and N9XTN-11 actually listened on 144.34.

Any one or two of these issues would not cause much trouble, but having all 3 occurring probably did contribute to packet fratricide. From my point of view, the collisions did not interfere with our ability to track payloads.

A connected-mode QSO would be interesting as an experiment, and probably worth documenting as a record. It certainly would be more difficult. But with the CRC(?) built into all packet decoding, including UI frames, we have data integrity checking. We just don't have the connected-mode ACKs going back to tell the originator the receipient got the packet - instead we manually acknowledge it by a return UI message.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
Date: Tuesday, July 6, 2004 10:25 am
Subject: Re: [GPSL] GPSL flights - a report from Iowa

> Mike,
>
> I combed through your log file and do not find evidence of an EBBE QSO
> between Mark and Harry. Here is the closest detail I find (with
> bracketingtimestamps):
>
> W5VSI-11>APRS:
> $GPGGA,145854,3812.3034,N,09717.7120,W,1,07,1.08,18886.4,M,-
> 27.0,M,,*44
> N9XTN-9>APS212,NSTAR*,EOSS:
> KC5TRB-2 :Hi Harry{1q}
>
> N9XTN-9>APS212,NSTAR,EOSS*:
> KC5TRB-2 :Hi Harry{1q}
>
> KC5TRB-2>APW247,K0ANI-14*,WIDE3-3:

> :N9XTN-9 :ack1q}
>
> WA0GEH-9>APS215,RELAY,WIDE3-3:
> @040258z3757.34N/09719.10W>000/000/A=001424 EOSS80,Tracking
> Coordinator
> N9XTN-9's APRS UI packet successfully transited NSTAR,EOSS but
> KC5TRB-2's
> APRS ACK via K0ANI-14 was not repeated by NSTAR. If anyone has a
> log file
> with the required EBBE evidence please forward it to me so Mark
> and Harry
> get credit they deserve.
>
> I believe allowing UI-packet QSOs for records is very similar to the
> long-standing METSCAT protocol of repeatedly transmitting required
> information each way for up to 30sec of each minute until a QSO is
> complete(or the stations give up). The UI-packet method was first
> used for QSOs
> back in 1984 when Bob Carpenter, W3OTC, and I competed the first
> of several
> METSCAT QSOs on 6m between Des Moines and Washington D.C. areas
> and when
> Rich Zwirko, K1HTV/3, and I completed the first (maybe the only)
> METSCAT QSO
> on 2m also between Des Moines and Washington D.C. areas.
>
> (As another proof of the advantage 6m has over 2m for METSCAT
> paths, Bob and
> I transferred 3k+bytes of data over a CONNECTED packet radio link -
> withACKs- while Rich and I struggled to complete a minimal UI-
> packet QSO over a
> period of 2-1/2 hours during a meteor shower.)
>
> Use of UI-packets for QSOs by savvy operators seems much more
> efficient than
> repeated connect attempts as well as repeated packet transmissions
> and ACKs.
> Data integrity resulting from connected state can be valuable but
> minimalQSO requirements are a very different animal. I propose we
> establish the
> standard and encourage use of UI-packets for QSO records.
>
> Regarding the traffic load on 144.34, using the single channel for
> telemetry, digipeating, et. al., seems to work AOK when there is
> only one,
> or maybe two, balloon(s) aloft at the same time. Telemetry from ~six
> balloons at GPSL with lots of digipeating from the multitude of chase
> vehicles creates a very different situation. Time-slotting of
> telemetryappears to become a moot point when there are as many
> digipeated packets

> (let alone failed digipeating attempts) as we repeatedly
> experience at GPSL.
> I heard numerous packet crashes so CSMA was not completely
> effective. I
> don't have an immediate comprehensive answer to the problem but
> will keep
> thinking.
>
> TNX es 73 de Ralph W0RPK
>
>

849. Re: [GPSL] GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 16:12:48 UTC
From: Mike Manes
Topic: 599 Message: 849

Hi Harry,

Wotcha asking me fer? I thought the corn in OK grew "as high as an elephant's eye"!

Great fun and looking forward to doing it again next year.

73 de Mike W5VSI, EOSS

Harry M wrote:
>
> Hi Mike,
>
> I had a blast!
> Great to have the opportunity to work with you and the EOSS team also.
>
> Was that corn or small trees? :)
>
> 73
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
> > Hi Harry,
> >
> > Trees, schmrees .... Turns out we REALLY needed muckin' boots!
> >
> > Great to see and work with ya this weekend. Wotta gas!
> >
> > 73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

850. SSTV report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 18:06:59 UTC
From: Steve KA5YFC
Topic: 850 Message: 850

Just as an FYI, the SSTV seems to have worked a lot better than I thought initially. AB0DP, from Wichita, copied a large number of our pictures and has put them on the web. I think that a lot of the dark area we were seeing on the left edge of the picture was actually, and here we go, I still don't believe this, it just can't be, but it might be, hold on to the edge of your seat, it may be actually the edge of space. After reviewing the better pictures from Guy's set up, you can see that each frame is changing even though it may be only slightly. Also note that it appears that the images are rotated 90 degrees. Use any standard photo editor to rotes the images right 90 and they will be much easier to understand the orientation.

I think that I have figured out why my received images may have been of very poor quality, it seems that the radio had moved frequency to 147.575 instead of .585. Must write note, lock frequency after setting so that it doesn't get accidentally changed, hihi. Also, I need to replace the 15 year old mag mount antenna as the coax and base are about toast.

For a view from the edge of space, take a look at http://fmsstv.net/ and then click on the Special Edition link on the left. Thanks to Guy, AB0DP, for collecting these images.

Next project is to figure out a way to overlay the location and altitude data on each frame so that we can see the important information. Hmmmm, how can we do that?????? Where's that manual at?

73,
Steve
KA5YFC

851. Re: [GPSL] SSTV report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 23:46:38 UTC
From: Don Pfister
Topic: 850 Message: 851

Steve KA5YFC wrote:

> ...
>
> Next project is to figure out a way to overlay the location and altitude
> data on each frame so that we can see the important information. Hmmmm,
> how can we do that?????? Where's that manual at?
>
> 73,
> Steve
> KA5YFC

Our OSD overlay board should handle that, but I'm not sure how readable it will be. We can check. ;-)

http://www.hamtv.com/
http://www.hamtv.com/pdf.files/PCATVcat7.pdf I have the OSD-232 version.
http://www.icircuits.com/osd-232.htm

More to concider: http://www.hamtv.com/oal.html

Don

--

[Signature File]
Name=Don Pfister KA0JLF

852. Project:Traveler batts.

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 23:51:47 UTC
From: Jon Riley
Topic: 852 Message: 852

I was using the lithium ion prismatic batteries from All Electronics.
cat # bte-45 (www.allelectronics.com)The individual cells are 3.7v 1400mAh and 1.6 oz . I have 2 in series.

853. Re: [GPSL] GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 23:53:57 UTC
From: Don Pfister
Topic: 831 Message: 853

Mark, I think all of HABITAT SkyLab teams were tracking APRS on 144.34. I don't think any of us were transmitting during the chase though. My mobile APRS+ was set up to digi through NSTAR (set up for past attempt), however, I used BallTrak for chasing. DUH!

There was a long time when all the trackers in Chase group 2 didn't hear the balloon, I think it was because we were under it. Chase group 1 monitored packets, we couldn't hear, about 5 or 10 miles further South of us at Newton. Hmm, maybe I better check on that. I'm not sure they were monitoring APRS.

Don

n9xtn@... wrote:

> I'll check my logs to see if the return ack from Harry went through both balloons. I guess the question is whether an automated response from a program should count as a QSO, or whether it should require manual input of a message.
>
> There were several reasons for having many collisions on 144.34 last Saturday.
>
> 1) KD4STH-11 was beaconing much more than intended. I think there were 6-8 packets per minute from his payload.
>
> 2) Time slotting not fully implemented. I believe both KD4STH-11 and W0WR-11 were not slotted.
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>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Ralph Wallio, W0RPK" <wallio@...>
> Date: Tuesday, July 6, 2004 10:25 am
> Subject: Re: [GPSL] GPSL flights - a report from Iowa
>
> > Mike,
> >

> > I combed through your log file and do not find evidence of an EBBE QSO
> > between Mark and Harry. Here is the closest detail I find (with
> > bracketingtimestamps):
> >
> > W5VSI-11>APRS:
> > $GPGGA,145854,3812.3034,N,09717.7120,W,1,07,1.08,18886.4,M,-
> > 27.0,M,,*44
> > N9XTN-9>APS212,NSTAR*,EOSS:
> > KC5TRB-2 :Hi Harry{1q}
> >
> > N9XTN-9>APS212,NSTAR,EOSS*:
> > KC5TRB-2 :Hi Harry{1q}
> >
> > KC5TRB-2>APW247,K0ANI-14*,WIDE3-3:
> > :N9XTN-9 :ack1q}
> >
> > WA0GEH-9>APS215,RELAY,WIDE3-3:
> > @040258z3757.34N/09719.10W>000/000/A=001424 EOSS80,Tracking
> > Coordinator
> > N9XTN-9's APRS UI packet successfully transited NSTAR,EOSS but
> > KC5TRB-2's
> > APRS ACK via K0ANI-14 was not repeated by NSTAR. If anyone has a
> > log file
> > with the required EBBE evidence please forward it to me so Mark
> > and Harry
> > get credit they deserve.
> >
> > I believe allowing UI-packet QSOs for records is very similar to the
> > long-standing METSCAT protocol of repeatedly transmitting required
> > information each way for up to 30sec of each minute until a QSO is
> > complete(or the stations give up). The UI-packet method was first
> > used for QSOs
> > back in 1984 when Bob Carpenter, W3OTC, and I competed the first
> > of several
> > METSCAT QSOs on 6m between Des Moines and Washington D.C. areas
> > and when
> > Rich Zwirko, K1HTV/3, and I completed the first (maybe the only)
> > METSCAT QSO
> > on 2m also between Des Moines and Washington D.C. areas.
> >
> > (As another proof of the advantage 6m has over 2m for METSCAT
> > paths, Bob and
> > I transferred 3k+bytes of data over a CONNECTED packet radio link -
> > withACKs- while Rich and I struggled to complete a minimal UI-
> > packet QSO over a
> > period of 2-1/2 hours during a meteor shower.)
> >
> > Use of UI-packets for QSOs by savvy operators seems much more
> > efficient than
> > repeated connect attempts as well as repeated packet transmissions

> > and ACKs.
> > Data integrity resulting from connected state can be valuable but
> > minimalQSO requirements are a very different animal. I propose we
> > establish the
> > standard and encourage use of UI-packets for QSO records.
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> > telemetry, digipeating, et. al., seems to work AOK when there is
> > only one,
> > or maybe two, balloon(s) aloft at the same time. Telemetry from ~six
> > balloons at GPSL with lots of digipeating from the multitude of chase
> > vehicles creates a very different situation. Time-slotting of
> > telemetryappears to become a moot point when there are as many
> > digipeated packets
> > (let alone failed digipeating attempts) as we repeatedly
> > experience at GPSL.
> > I heard numerous packet crashes so CSMA was not completely
> > effective. I
> > don't have an immediate comprehensive answer to the problem but
> > will keep
> > thinking.
> >
> > TNX es 73 de Ralph W0RPK

--

[Signature File]
Name=Don Pfister KA0JLF

854. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-07 09:45:24 UTC
From: wb8elk@aol.com
Topic: 854 Message: 854

In a message dated 7/6/04 10:35:04 AM Central Daylight Time,
wallio@... writes:

> N9XTN-9>APS212,NSTAR*,EOSS:
> KC5TRB-2 :Hi Harry{1q}
>
> N9XTN-9>APS212,NSTAR,EOSS*:
> KC5TRB-2 :Hi Harry{1q}
>
> KC5TRB-2>APW247,K0ANI-14*,WIDE3-3:
> :N9XTN-9 :ack1q}
>
>

I was riding shotgun with Harry and definitely saw N9XTN-9's two messages of
"Hi Harry" on our laptop in the car. The laptop crashed shortly afterwards so
not sure if Harry has anything on the log file he can find.

- Bill WB8ELK

855. QSO records - manual operation required(?)

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-07 12:46:04 UTC
From: Ralph Wallio, W0RPK
Topic: 855 Message: 855

Others have already mentioned this but to make it formal, I propose that Amateur Radio High Altitude Ballooning QSO records require manual operator controlled transmissions of all QSO requirements. This proposal would not allow automated APRS message ACKs to satisfy minimal QSO requirements. Comments will tell us whether we have a consensus of opinion.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

856. Re: [GPSL] GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-06 17:21:03 UTC
From: Mike Manes
Topic: 831 Message: 856

Hi Ralph,

I wish I'd turned on MSTamp on the W5VSI-1 TNC and set DAYtime to CDST.
But I was distracted by silly stuff like filling, launching and
tracking the balloon ...

I think that an ARQ link would be the easiest way to QSO, since the
TNCs automatically handle lost and/or corrupted packet frames. Using
UI requires the ops at both ends to "guess" whether or not to take
another shot. UIs are >especially< tough to pick out from a busy
channel as well, as you prolly saw when parsing my raw log file. That
appears to have been confirmed by your own account of ARQ vs UI
over meteor scatter paths, which are tough to get even one whole
frame thru!

Altho most balloon APRS digis were time-slotted, many of them were
"deaf" beacon generators and thus couldn't abide CSMA rules. These
are great when they have a freq solo, as is the case with most
balloon flights -- but 144.34 was nearly a continuous din of packets
and collisions. About half the W5VSI-11 UI beacons got stepped on,
despite time slotting and adherance to CDMA rules.

Now, I'll be the first to admit that I did gen some non-slotted
UI frames, e.g. TLM and BText, but I set them to run no more often
than every 5 or 10 minutes.

So I guess I'm confused by your recommendation to standardize on
UI vs. ARQ for EBBE QSOs.

"Ralph Wallio, W0RPK" wrote:
>
> Mike,
>
> I combed through your log file and do not find evidence of an EBBE QSO
> between Mark and Harry. Here is the closest detail I find (with bracketing
> timestamps):
>
> W5VSI-11>APRS:
> $GPGGA,145854,3812.3034,N,09717.7120,W,1,07,1.08,18886.4,M,-27.0,M,,*44
>
> N9XTN-9>APS212,NSTAR*,EOSS:
> KC5TRB-2 :Hi Harry{1q}
>
> N9XTN-9>APS212,NSTAR,EOSS*:
> KC5TRB-2 :Hi Harry{1q}
>

> KC5TRB-2>APW247,K0ANI-14*,WIDE3-3:
> :N9XTN-9 :ack1q}
>
> WA0GEH-9>APS215,RELAY,WIDE3-3:
> @040258z3757.34N/09719.10W>000/000/A=001424 EOSS80,Tracking Coordinator
>
> N9XTN-9's APRS UI packet successfully transited NSTAR,EOSS but KC5TRB-2's
> APRS ACK via K0ANI-14 was not repeated by NSTAR. If anyone has a log file
> with the required EBBE evidence please forward it to me so Mark and Harry
> get credit they deserve.
>
> I believe allowing UI-packet QSOs for records is very similar to the
> long-standing METSCAT protocol of repeatedly transmitting required
> information each way for up to 30sec of each minute until a QSO is complete
> (or the stations give up). The UI-packet method was first used for QSOs
> back in 1984 when Bob Carpenter, W3OTC, and I competed the first of several
> METSCAT QSOs on 6m between Des Moines and Washington D.C. areas and when
> Rich Zwirko, K1HTV/3, and I completed the first (maybe the only) METSCAT QSO
> on 2m also between Des Moines and Washington D.C. areas.
>
> (As another proof of the advantage 6m has over 2m for METSCAT paths, Bob and
> I transferred 3k+bytes of data over a CONNECTED packet radio link -with
> ACKs- while Rich and I struggled to complete a minimal UI-packet QSO over a
> period of 2-1/2 hours during a meteor shower.)
>
> Use of UI-packets for QSOs by savvy operators seems much more efficient than
> repeated connect attempts as well as repeated packet transmissions and ACKs.
> Data integrity resulting from connected state can be valuable but minimal
> QSO requirements are a very different animal. I propose we establish the
> standard and encourage use of UI-packets for QSO records.
>
> Regarding the traffic load on 144.34, using the single channel for
> telemetry, digipeating, et. al., seems to work AOK when there is only one,
> or maybe two, balloon(s) aloft at the same time. Telemetry from ~six
> balloons at GPSL with lots of digipeating from the multitude of chase
> vehicles creates a very different situation. Time-slotting of telemetry
> appears to become a moot point when there are as many digipeated packets
> (let alone failed digipeating attempts) as we repeatedly experience at GPSL.
> I heard numerous packet crashes so CSMA was not completely effective. I
> don't have an immediate comprehensive answer to the problem but will keep
> thinking.
>
> TNX es 73 de Ralph W0RPK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

857. Re: [GPSL] GPSL flights - a report from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-07 12:48:23 UTC
From: Mike Manes
Topic: 831 Message: 857

Hi Guys,

I must reiterate that, IMHO, the only legitimate packet QSO is a full ARQ connect, where the TNCs at both end generate impassive and objective acknowlegements of each frame of data. And with ARQ, the burden of wondering whether your last UI got thru is borne by the TNC rather than quizzing you whether or not to repeat your last UI.

The QSO data should be keyboard-generated in real time by ops at both ends, rather than automated responses such as CText or PBBS postings.

For example, would this UI exchange between W0ABC and NOISE count as a QSO?

At 1000, W0ABC beacons to GPSL via EOSS, NSTAR:

QRZ? EBBE de W0ABC

This transmission could easily be a simple BText string repeated periodically thru the command Beacon Every 60, even when 'ABC's OTL. Who's to know?

At 1030, N0ISE sees that UI beacon during a scrollback and returns, via NSTAR, EOSS:

W0ABC de N0ISE QSL

Which may or may not make it thru unscathed to W0ABC's TNC and may also be just another automatic BText entered after N0ISE notices W0ABC in the MHeard list.

I think not. The following in EITHER station's log is unquestionably a QSO, however:

```
cmd: C N0ISE via EOSS, NSTAR
*** Connected to NOISE via EOSS, NSTAR at 1030
Hi Harv. You there?
You betcha, Bubba. TNX es 73!
73 es CUL Harv de W0ABC
*** DISCONNECTED at 1032
cmd:
```

BTW, I think that K-Nodes offer a far better chance of making an EBBE ARQ happen. In a multiple digi link, a single bit hit on any one of the 3 radio paths will stop a frame from getting thru intact to the other end. And for an ARQ link, the far end station's ACK has 3 more shots at getting wiped enroute back. So a single bit hit on any one of the 6 legs is enough to force a retry over the whole path.

As many packet ops have learned, making a multi-hop digi QSO go,
especially where one or more legs are weak, can be quite tedious.

However, with K-Nodes, each leg is separately ack/nacked before it's
passed on the the next leg. Thus if the bit hit occurs on only one
leg of the path, a retry is generated just over that leg rather than
over the whole 6-leg round trip, thus mitigating the traffic loading
on that freq.

My $0.02 ...

RE QRM wiping out APRS beacons: I know for sure that at least half
of W5VSI's GGA's got clobbered, including the one at 88,999 ft; I had
to pull that one out of the BLT log aboard the KCP-3. There were times
when 4 or 5 minutes went by with no new altitude data being heard from
the EOSS bird. Next year, we should limit beaconing on a common freq
to just time-slotted APRS GGA's, assign separate freqs to each bird or
some combo of both.

73 de Mike W5VSI

mconner@... wrote:
>
> I'll check my logs to see if the return ack from Harry went through both balloons. I guess the question is whether an automated response from a program should count as a QSO, or whether it should require manual input of a message.
>
> A connected-mode QSO would be interesting as an experiment, and probably worth documenting as a record. It certainly would be more difficult. But with the CRC(?) built into all packet decoding, including UI frames, we have data integrity checking. We just don't have the connected-mode ACKs going back to tell the originator the receipient got the packet - instead we manually acknowledge it by a return UI message.
>
> 73 de Mark N9XTN
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

858. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-07 13:36:02 UTC
From: Harry M
Topic: 854 Message: 858

I do not find more in my log than what is below from Ralph.
I do remember Bill pointing out the message from Mark and I
saw it on the screen.

My thoughts on the QSO requirements are that the satellite guys
have fully automated stations that require no operator. They
count their contacts!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Wednesday, July 07, 2004 4:45 AM
Subject: Re: [GPSL] N9XTN - KC5TRB EBBE

In a message dated 7/6/04 10:35:04 AM Central Daylight Time, wallio@... writes:

N9XTN-9>APS212,NSTAR*,EOSS:
KC5TRB-2 :Hi Harry{1q}

N9XTN-9>APS212,NSTAR,EOSS*:
KC5TRB-2 :Hi Harry{1q}

KC5TRB-2>APW247,K0ANI-14*,WIDE3-3:
:N9XTN-9 :ack1q}

I was riding shotgun with Harry and definitely saw N9XTN-9's two messages of "Hi Harry" on our laptop in the car. The laptop crashed shortly afterwards so not sure if Harry has anything on the log file he can find.

- Bill WB8ELK

859. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-07 14:36:46 UTC
From: Ralph Wallio, W0RPK
Topic: 854 Message: 859

This is news to me. What OSCAR modes are being used for automatic QSOs that are being counted for distance records by any award granting organization? AMSAT offers awards only for cumulative QSO counts. ARRL offers distance recognition for all VHF-and-up bands but they recognize only longstanding QSO requirements which do not allow automated or relayed/repeated operation.

Amateur Radio High Altitude ballooning does not offer awards (but we could if there is interest). We collectively offer recognition in several record categories including station-to-station QSO distance. We note that these distance records were via EBE or EBBE and could even mention modes as we do in the HF category.

Incidentally, QSOs via high altitude balloons are not valid for ARRL awards. ARRL allows OSCAR QSOs but only for awards with OSCAR endorsements, e.g. Satellite WAS and DXCC where all QSOs have to be via OSCAR.

-w0rpk

860. RE: [GPSL] QSO records - manual operation required(?)

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-07 18:09:00 UTC
From: Rick von Glahn
Topic: 855 Message: 860

I believe that there should be two categories.

1.) QSO

2.) Automated Link

How and Why?

The QSO link should be a manual exchange of individuals keyboard to keyboard.
This would demonstrate "long term" connection viability.

The Automated Link would be able to demonstrate that a quick opening was
discovered by computer programs (most likely APRS) and two way exchange of
data was possible. It would be a record similar to the Telemetry reception
record. But it would demonstrate acknowledged data rather than blind
reception.

But, that wasn't the question really was it? For a QSO, well what is a QSO?
From:

http://www.arrl.org/qst/glossary.html

QSO -- A conversation between two radio amateurs.

I believe that leaves out totally automated connections.

73 -- Rick, NØKKZ

```
----------------------------
| NEW EMAIL ADDRESS IS |
| rick@... |
| Take note |
----------------------------
```

> -----Original Message-----
> From: Ralph Wallio, W0RPK [mailto:wallio@...]
>
> Others have already mentioned this but to make it formal, I
> propose that Amateur Radio High Altitude Ballooning QSO
> records require manual operator controlled transmissions of
> all QSO requirements. This proposal would not allow
> automated APRS message ACKs to satisfy minimal QSO requirements.
> Comments will tell us whether we have a consensus of opinion.

861. HABITAT SkyLab was NOT a "derelict"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-08 03:05:26 UTC
From: Don Pfister
Topic: 861 Message: 861

Rick, regardless of your report our balloon was not a "derelict". I do not know who or why that was reported but it is not the case. While our flight was not like the others, our balloon configuration was not like the others.

While we did not maintain radio contact with the other groups, we did maintain contact with our balloon at all times. It is true; that at sometime during decent our primary tracker was damaged, we are unable to determine when that occurred do to others not keeping to the pre-arranged time-slotting of beacons. Our secondary tracking system worked perfectly and we walked right to the payload after it landed. Our group was the only ones using our secondary tracking frequency, good thing perhaps.

In my opinion our flight was near perfect. We flew almost 100 miles, but landed about 15 miles from the launch site. Perhaps the closest to the launch site of any group there. I believe we had the longest duration flight of any of the groups. I don't think we could have asked for a better flight. We didn't land in the MUD either. ;-) We landed a few hundred feet W of 95th and Plum. A nice little trek, back to the road and we returned to Hutch for lunch. I KNOW we proved you can make a latex flight 'float'! I'm not sure we could ever have another flight so near perfect. We just might try though. ;-)

I would appreciate your updating your recap web page to set the record straight. IF you know who reported that our flight was a "derelict" you might correct them as well. ;-)

Thanks,
Don KA0JLF

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

862. RE: HABITAT SkyLab was NOT a "derelict"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-08 06:40:12 UTC
From: Rick von Glahn
Topic: 861 Message: 862

Oops! Sorry about that Don. I've removed that entire paragraph. The derelict comment was going around during the recovery process. Perhaps it was because we were generally unaware of your intended flight profile. Regardless, if I hear any further comments of this nature I'll be sure to chime in with a correction.

73 -- Rick, NØKKZ

```
----------------------------
| NEW EMAIL ADDRESS IS |
| rick@... |
| Take note |
----------------------------
```

> -----Original Message-----
> From: Don Pfister [mailto:ka0jlf@...]
> Sent: Wednesday, July 07, 2004 8:05 PM
> To: webmaster@...
> Cc: HABITAT_SkyLab@yahoogroups.com; GPSL@yahoogroups.com;
> knsp@yahoogroups.com; project_traveler@yahoogroups.com
> Subject: HABITAT SkyLab was NOT a "derelict"
> Importance: High
>
> Rick, regardless of your report our balloon was not a
> "derelict". I do not know who or why that was reported but it
> is not the case. While our flight was not like the others,
> our balloon configuration was not like the others.
>
> While we did not maintain radio contact with the other
> groups, we did maintain contact with our balloon at all
> times. It is true; that at sometime during decent our primary
> tracker was damaged, we are unable to determine when that
> occurred do to others not keeping to the pre-arranged
> time-slotting of beacons.
> Our secondary tracking system worked perfectly and we walked
> right to the payload after it landed. Our group was the only
> ones using our secondary tracking frequency, good thing perhaps.
>
> In my opinion our flight was near perfect. We flew almost 100
> miles, but landed about 15 miles from the launch site.
> Perhaps the closest to the launch site of any group there. I
> believe we had the longest duration flight of any of the
> groups. I don't think we could have asked for a better
> flight. We didn't land in the MUD either. ;-) We landed a few
> hundred feet W of 95th and Plum. A nice little trek, back to
> the road and we returned to Hutch for lunch. I KNOW we proved

> you can make a latex flight 'float'! I'm not sure we could
> ever have another flight so near perfect. We just might try
> though. ;-)
>
> I would appreciate your updating your recap web page to set
> the record straight.
> IF you know who reported that our flight was a "derelict" you
> might correct them as well. ;-)
>
> Thanks,
> Don KA0JLF
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
>
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
>
> view stations on the web real time (~3 minute updates):
> http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon
>
>

863. Re: [GPSL] RE: HABITAT SkyLab was NOT a "derelict"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-08 12:16:40 UTC
From: Don Pfister
Topic: 861 Message: 863

Thanks Rick! ;-)

We were pretty pleased with the flight. We got to eyeball it for a long time!

73
Don

Rick von Glahn wrote:

> Oops! Sorry about that Don. I've removed that entire paragraph. The derelict
> comment was going around during the recovery process. Perhaps it was because
> we were generally unaware of your intended flight profile. Regardless, if I
> hear any further comments of this nature I'll be sure to chime in with a
> correction.
>
> 73 -- Rick, N?KKZ
>
> ----------------------------
> | NEW EMAIL ADDRESS IS |
> | rick@... |
> | Take note |
> ----------------------------
>
>
> > -----Original Message-----
> > From: Don Pfister [mailto:ka0jlf@...]
> > Sent: Wednesday, July 07, 2004 8:05 PM
> > To: webmaster@...
> > Cc: HABITAT_SkyLab@yahoogroups.com; GPSL@yahoogroups.com;
> > knsp@yahoogroups.com; project_traveler@yahoogroups.com
> > Subject: HABITAT SkyLab was NOT a "derelict"
> > Importance: High
> >
> > Rick, regardless of your report our balloon was not a
> > "derelict". I do not know who or why that was reported but it
> > is not the case. While our flight was not like the others,
> > our balloon configuration was not like the others.
> >
> > While we did not maintain radio contact with the other
> > groups, we did maintain contact with our balloon at all
> > times. It is true; that at sometime during decent our primary
> > tracker was damaged, we are unable to determine when that
> > occurred do to others not keeping to the pre-arranged
> > time-slotting of beacons.
> > Our secondary tracking system worked perfectly and we walked
> > right to the payload after it landed. Our group was the only

> > ones using our secondary tracking frequency, good thing perhaps.
> >
> > In my opinion our flight was near perfect. We flew almost 100
> > miles, but landed about 15 miles from the launch site.
> > Perhaps the closest to the launch site of any group there. I
> > believe we had the longest duration flight of any of the
> > groups. I don't think we could have asked for a better
> > flight. We didn't land in the MUD either. ;-) We landed a few
> > hundred feet W of 95th and Plum. A nice little trek, back to
> > the road and we returned to Hutch for lunch. I KNOW we proved
> > you can make a latex flight 'float'! I'm not sure we could
> > ever have another flight so near perfect. We just might try
> > though. ;-)
> >
> > I would appreciate your updating your recap web page to set
> > the record straight.
> > IF you know who reported that our flight was a "derelict" you
> > might correct them as well. ;-)
> >
> > Thanks,
> > Don KA0JLF
> >
> > --
> >
> > [Signature File]
> > Name=Don Pfister KA0JLF
> >
> > Founder of HABITAT SkyLab
> > (High Altitude Basic Investigation Testing And Tracking)
> >
> > view stations on the web real time (~3 minute updates):
> > http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon
> >

864. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-08 12:03:03 UTC
From: Mike Manes
Topic: 854 Message: 864

Hi Ralph,

Awarding recognition for accomplishments and advancements was one of
the functions that I had in mind for the now much-maligned national
amateur high altitude balloon organization ... not that the present
"Wallio Hall of Fame" doesn't do a pretty good job already, tho.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Amateur Radio High Altitude ballooning does not offer awards (but we could
> if there is interest). We collectively offer recognition in several record
> categories including station-to-station QSO distance. We note that these
> distance records were via EBE or EBBE and could even mention modes as we do
> in the HF category.

Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

865. QSOs and modes

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-08 14:21:48 UTC
From: Ralph Wallio, W0RPK
Topic: 865 Message: 865

All of this discussion would be meaningless were it not for the accomplishment of flying EOSS and NSTAR missions with digital repeating payloads at the same time. The efforts of these flight teams are far more significant than a few minutes of participation by OMs at home in their cozy shacks. We encourage participation by maintaining distance records but MISSION/PROGRAM is the most important column.

There is a longstanding definition of a minimal Amateur Radio QSO. Call signs and one other piece of information must be exchanged and acknowledged. This usually means both call signs are transmitted by both stations (although this does not always happen during contests). The one additional piece of information, e.g., grid squares, signal reports or names, should be acknowledged but does not need to be repeated, e.g., "Roger all that" is enough.

These minimal requirements can be satisfied with full-blown packet connections or UI exchanges or APRS messaging exchanges. Regardless of which method used we should try to satisfy the minimal requirements. Should we accept process as evidence, e.g., packet header information? I have lost track of what the ARRL does but, for our little world, I think we can. We are not talking about fully automated robot QSOs, just call signs and paths in packet headers. Harv and Bubba still need to be at their keyboards.

The best most-efficient highest-probability-of-success method, connections, node connections, UI exchanges or APRS message exchanges, depends on circumstances at the moment for the two stations and payload capabilities. Our N9XTN<>W0RPK QSO was via UI packets but the attempt could easily have failed. It was a pure fluke that Mark was parked instead of moving and therefore could be paying attention to packet activity -and- it was a pure fluke that Mark was paying attention to packet activity at just the right time to see my initial QRZ v EBBE. We would have had a much higher probability of success with APRS messaging but only because Mark was using APRS software.

Mike and Rick were safely driving and navigating rather than watching the packet stream for UI and APRS messaging packets. If I, in my cozy shack, had a better understanding of Mike and Rick's circumstances I would have attempted a direct or node connection.

If I had arranged a QSO with a distant ground station attempting to set a distance record, we might have successfully used UI exchanges because we knew each other were watching the packet stream (possibly while coordinating our attempt via a simultaneous 40m QSO).

Perhaps understanding circumstances is the key to success rather than establishing a common method. All we have to do is announce our individual

circumstances and methods before flights so others will know what method to use.

-w0rpk

866. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-08 15:53:16 UTC
From: Ralph Wallio, W0RPK
Topic: 854 Message: 866

Perhaps we can give recognition for accomplishments and advancements without the overhead of an umbrella organization. It is common for this process to start with nominations, e.g., the Ig Nobel Prize (http://www.improb.com/ig/ig-top.html), followed by a winnowing process and final selection by a peer committee. Awards could be serious, e.g., breaking the altitude record, or in fun, e.g., longest recovery time, but nothing is automatic. Nominations and review would be required.

Recognition could be given at our GPSL evening dinner. Coordination would be a reasonable responsibility for one person (per year) including soliciting, receiving and forwarding nominations, coordinating the decision process and arranging for certificates, all in a couple of months before GPSL (starting May 1st?). A web page would announce and archive results.

My format for our records page is getting pretty big, ~450kB. I am thinking of rebuilding it this winter so it loads in more reasonable time for dial-up users. Perhaps a main page with the top 3 in each category and links to sub-pages for each category with full detail.

-w0rpk

867. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-09 13:40:44 UTC
From: Mike Manes
Topic: 854 Message: 867

Hi Ralph,

Hmmm .. the IgNobel is sponsored by Jour. Irrep. Results, isn't it?
Maybe N&V, CQ VHF or ATV Journal would be willing to do the heavy
lifting at a national level. Joe Lynch W6CL expressed his sincere
intent to support ham radio ballooning in earnest. Of course, there's
some pecuniary interst there ...

Re awards: EOSS's very own version of the IgNobel is the coveted
Lawn Chair Larry, after Larry Walters R.I.P., given to the EOSS member
most dearly deserving of that Exhaulted Honour :=}

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Perhaps we can give recognition for accomplishments and advancements without
> the overhead of an umbrella organization. It is common for this process to
> start with nominations, e.g., the Ig Nobel Prize
> (http://www.improb.com/ig/ig-top.html), followed by a winnowing process and
> final selection by a peer committee. Awards could be serious, e.g.,
> breaking the altitude record, or in fun, e.g., longest recovery time, but
> nothing is automatic. Nominations and review would be required.
>
> Recognition could be given at our GPSL evening dinner. Coordination would
> be a reasonable responsibility for one person (per year) including
> soliciting, receiving and forwarding nominations, coordinating the decision
> process and arranging for certificates, all in a couple of months before
> GPSL (starting May 1st?). A web page would announce and archive results.
>
> My format for our records page is getting pretty big, ~450kB. I am thinking
> of rebuilding it this winter so it loads in more reasonable time for dial-up
> users. Perhaps a main page with the top 3 in each category and links to
> sub-pages for each category with full detail.
>
> -w0rpk
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

868. ARHAB articles and awards vs for-profit journals

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-09 15:39:18 UTC
From: Ralph Wallio, W0RPK
Topic: 868 Message: 868

Hmmm, maybe now is the time to offer an opinion that may generate flaming responses.

I am not a subscriber to Nuts & Volts, CQ-VHF or ATV Journal. Consequently I will not be reading Paul's columns in Nuts & Volts nor will I be reading Zack's GPSL2004 article in CQ-VHF. I believe something is going wrong when our collective information is being published in for-profit journals rather then in extensive web pages that already exist and are available to everyone.

I believe information in these articles and columns belongs to all of us. There is not one project, program, individual or author that has not benefited significantly by learning from time, energy and money invested by other members of our informal group. Most group members regularly go far out of their way to openly publish details of their successes and failures in freely accessible web pages.

Only a very small fraction of content in Nuts & Volts, CQ-VHF, ATV Journal will ever be dedicated to Amateur Radio High Altitude Ballooning. We can serve our very small group much more efficiently and dependably via web publishing that is available to experts and fledglings alike without the subscription expense of for-profit journals.

I do not believe annual coordination of a nomination-based award scheme is any where near "heavy lifting". Volunteer coordinators and peer reviewers will invest a little time and energy but there will be very little expense.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

869. Re: [GPSL] ARHAB articles and awards vs for-profit journals

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-09 16:20:06 UTC
From: Harry M
Topic: 868 Message: 869

Just my opinion!

I also do not subscribe to either mag, although I do pick up a copy of each off the news stand from time to time. If individuals like to submit articles for publication that is their right and if they also wish to not make that information available to the masses through the web, that is also their right, but one of the things that has drawn me to ballooning is the sharing of information by almost all balloon groups, either by email or websites. I would like to see everyone continue to share and not confine their accomplishments and findings to publications!

Peace!
73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Subject: [GPSL] ARHAB articles and awards vs for-profit journals

> Hmmm, maybe now is the time to offer an opinion that may generate flaming
> responses.
>
> I am not a subscriber to Nuts & Volts, CQ-VHF or ATV Journal. Consequently
> I will not be reading Paul's columns in Nuts & Volts nor will I be reading
> Zack's GPSL2004 article in CQ-VHF. I believe something is going wrong when
> our collective information is being published in for-profit journals rather
> then in extensive web pages that already exist and are available to
> everyone.
>
snip...

870. Re: [GPSL] ARHAB articles and awards vs for-profit journals

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-09 16:49:38 UTC
From: Zack Clobes
Topic: 868 Message: 870

I appreciate the free exchange of information - it was invaluable to our group, especially as we started out. I will stick my neck out and say that I pride myself of keeping Project: Traveler's website one of the most up-to-date and content rich ballooning sites on the net.

That being said, from my standpoint, I had nearly $100 in out of pocket expenses for things like the coffee/tea, name badges, borrowing the truck for the helium, etc. When I had the opportunity to get "reimbursed" for some of those costs by doing a write-up, I jumped at it. Unfortunately, I'm kind of written-out at the moment and haven't posted much to the website other than PT's standard Flight Analysis.

But, keep in mind that the "average" ham is more likely to read about ballooning in CQ or Nuts & Volts than they would be to just stumble across one of our websites.

And with that, I'll throw the monkey on someone else's back. If someone were willing to throw a few paragraphs together, and/or some pictures, I would happily post them to the GPSL 2004 website.

Zack

Ralph Wallio, W0RPK wrote:

>Hmmm, maybe now is the time to offer an opinion that may generate flaming
>responses.
>
>I am not a subscriber to Nuts & Volts, CQ-VHF or ATV Journal. Consequently
>I will not be reading Paul's columns in Nuts & Volts nor will I be reading
>Zack's GPSL2004 article in CQ-VHF. I believe something is going wrong when
>our collective information is being published in for-profit journals rather
>then in extensive web pages that already exist and are available to
>everyone.
>
>I believe information in these articles and columns belongs to all of us.
>There is not one project, program, individual or author that has not
>benefited significantly by learning from time, energy and money invested by
>other members of our informal group. Most group members regularly go far
>out of their way to openly publish details of their successes and failures
>in freely accessible web pages.
>
>Only a very small fraction of content in Nuts & Volts, CQ-VHF, ATV Journal
>will ever be dedicated to Amateur Radio High Altitude Ballooning. We can
>serve our very small group much more efficiently and dependably via web
>publishing that is available to experts and fledglings alike without the
>subscription expense of for-profit journals.

>
>I do not believe annual coordination of a nomination-based award scheme is
>any where near "heavy lifting". Volunteer coordinators and peer reviewers
>will invest a little time and energy but there will be very little expense.
>
>TNX es 73 de Ralph Wallio, W0RPK
>wallio@...
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>Hubbert's Peak - The Mother of all Perfect Storms
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>Yahoo! Groups Links
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871. Re: [GPSL] ARHAB articles and awards vs for-profit journals

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-09 17:05:22 UTC
From: n9xtn@cox.net
Topic: 868 Message: 871

I'll chime in, as an author of a ballooning article in the previous CQ VHF issue.....

The articles for ATVQ and CQ VHF are rather non-technical in nature and have more to do with either recapping an event and/or providing an intro to the hobby. The articles from Paul I've seen in N&V are decidedly technical, but are geared to spurring ideas in microcontroller users outside of amateur radio ballooning. In both cases, I believe the articles repackage much of what can already be found on the web.

I have already gotten e-mail contacts through Paul's N&V articles from people totally outside the hobby until now. Not so much yet from CQ VHF, but it's only been out a few weeks.

I view articles in the for-profit magazines as a way to reach people who may not know of our existence. Simply publishing a web site doesn't get you eyeballs on the page - either the person has to search for you specifically or you depend on a serendipitous bout of near-random surfing. We are NOT reaching a wide audience with our websites - I had about 8000 hits on my main NSTAR page between Apr 2003 and this past June. Many of those were bots.

OTOH, a VHF enthusiast who subscribes to CQ VHF or ATVQ who doesn't know about our hobby reads about us in an article and may become interested enough to participate. I can read the various news web sites all day long, but I still subscribe to the Omaha newspaper because it brings me things I might not read otherwise.

Unless this hobby exclusively publishes information in the magazines that is not available by the web, I don't see a threat. I don't see this happening, either, given our group's track record on open collaboration and information sharing. The articles are a good means to reach out beyond our current small audience to attract new people, and I for one STRONGLY ENCOURAGE people to write for the various publications.

This brings me back to a need for a one-stop shop for amateur radio ballooning on the internet. We collectively have a LOT of stuff out there, but it's not indexed or cross-referenced, and an outsider has a devil of a time sorting it all out. It's a pain for me, and I know what I'm looking for.

73 de Mark N9XTN

872. Re: [GPSL] My thoughts about a national website and magazines

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-09 18:51:34 UTC
From: wb8elk@aol.com
Topic: 872 Message: 872

OK...here's my 2 bits worth...actually, 2 bucks worth <smile>.....

I personally feel that there should be efforts in both types of medias....free websites and paid journals. I've found that usually most newcomers find out about ham ballooning from reading articles in magazines or through word of mouth...radio clubs, school projects etc. I've noticed the disturbing trend that even among senior class engineering students, many of them have never even heard about ham radio.

I've written dozens of articles in several magazines promoting the idea of ham radio ballooning in the late 80s and early 90s...the July 91 issue of 73 magazine even had a ham balloon on the front cover (lots of good foxhunting articles in that issue)....the August 91 issue (another balloon on the cover) was practically devoted to ham ballooning with my 5 page how-to article inside....I even had Wayne Green fired up about the idea and we did a few launches from the headquarters building and he mentioned ballooning in his column many times after that.
As a side note, when we bought an article for 73, we only had rights to it prior to and during the publication month when the issue was on the newstands...after that the author could resell it or post it publically in it's entirety with the only caveat that they reference that it was originally published in 73....at least this policy was true when I was editor there. There was no reason that they couldn't post a rewritten version (or by another author) on the internet before, during or after publication however.

Now to the other side of the story.....the above was certainly true when the internet was in it's infancy....however, it is getting easier and easier to find out about ballooning through web searches....this is a great place to find out what the other groups are doing and the free exchange of information...it's an invaluable source of techniques and technical information.....but this
mostly only gets to the people who already have an interest in ballooning....that's where articles in national (or international) publications really have a
place....to inspire newcomers into both ham radio and a way to use ham radio in a fun, exciting manner that can do some real science....to reach out from the newstands and grab their attention.

So in conclusion:

I think we need a presence in BOTH paid publications AND free access websites...maybe a free e-zine or online newsletter about ham ballooning?....but this takes a huge effort or a dedicated person to maintain and update the website...(as those of you with websites truly know). I don't have much info (and very outdated) stuff on my website: www.wb8elk.com.....mainly due to a lack of free time to do so....I'm going to try to change that this weekend, however.

I also agree we need a national (or international) web domain that is easy to remember so we can point or link to all the other groups....Although several groups have amazing websites with links to other groups (some more complete than others)...it still would be nice to have a site with "balloons" in the domain name.

To that end, I offer the use of the domain "www.hamballoons.com"....to anyone who wants to manage it and put links, announcements, articles, FAQ's online as a national (and international) balloon forum website. Even if it just shows a link on the front page to all the other groups that would be handy and easy to remember. It would be nice that in addition to the launch annoucement lists on Yahoo and via HABLIC, that there be an automated posting area on the website for launch announcements....something like the "dxworld.com" propagation pages. The idea is to centralize so information can be found.

If I get a chance, I'll sketch out a framework of what I have in mind on the "hamballoons.com" website this weekend.

- Bill WB8ELK

873. EOSS-80 GPSL recap firming up

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-10 00:37:56 UTC
From: Rick von Glahn
Topic: 873 Message: 873

I've finally added some pictures from both the symposium and flight day and all the data files I could gather:

http://www.eoss.org/ansrecap/ar_100/recap080.htm

73 -- Rick, NØKKZ

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| NEW EMAIL ADDRESS IS |
| rick@... |
| Take note |
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874. Re: [GPSL] EOSS-80 GPSL recap firming up

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-10 02:32:50 UTC
From: Harry M
Topic: 873 Message: 874

Thanks for posting all the GPSL stuff Rick!
Would you send me the pic of me sticking my head out of the corn. (without insert)

Thanks & 73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Subject: [GPSL] EOSS-80 GPSL recap firming up

875. Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-10 17:52:37 UTC
From: pverhage1960
Topic: 875 Message: 875

I got three or four predicted landing sites. I need eveyone's GPS coordinates of their landings to figure who was closest to their prediction.

Paul

876. Re: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-10 20:59:34 UTC
From: Harry M
Topic: 875 Message: 876

ORB-11 LANDING

KC5TRB-11>APT310,RELAY,WIDE3-3:/154824h3806.05N/09717.76WO240/000/A=001512/O
RB Balloon

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

>Subject: [GPSL] Landing Sites
>
> I got three or four predicted landing sites. I need eveyone's GPS
> coordinates of their landings to figure who was closest to their
> prediction.

877. Re: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-10 21:04:28 UTC
From: Zack Clobes
Topic: 875 Message: 877

Project: Traveler - 38? 1.7085'N, 96? 18.2869'W

pverhage1960 wrote:

>I got three or four predicted landing sites. I need eveyone's GPS
>coordinates of their landings to figure who was closest to their
>prediction.
>
>Paul
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>Yahoo! Groups Links
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878. RE: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-10 21:25:44 UTC
From: Rick von Glahn
Topic: 875 Message: 878

For eoss-80 the first recorded packet on the ground post landing was:

W5VSI-11>APRS:$GPGGA,161754,3802.9145,N,09717.6454,W,1,03,0.82,397.2,M,-27.0,M
,,*45

73 -- Rick, NØKKZ

| NEW EMAIL ADDRESS IS |
| rick@... |
| Take note |

> -----Original Message-----
> From: pverhage1960 [mailto:paul.verhage@...]
> Sent: Saturday, July 10, 2004 10:53 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Landing Sites
>
> I got three or four predicted landing sites. I need
> eveyone's GPS coordinates of their landings to figure who was
> closest to their prediction.
>
> Paul
>
>
>
> ------------------------ Yahoo! Groups Sponsor
> ----------------------~--> Yahoo! Domains - Claim yours for
> only $14.70 http://us.click.yahoo.com/Z1wmxD/DREIAA/yQLSAA/ELTolB/TM
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> Yahoo! Groups Links
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879. Radio Beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 00:28:57 UTC
From: pverhage1960
Topic: 879 Message: 879

Bill, were you the one with the locator beacon kit?

I'd like to order one. How much are they and where do I send the money?

I plan to write an article on it and a timer combination I thought up while on the road. It's amazing how much time I have to think about stuff while on these trips.

Paul

880. OnSet Prize

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 00:36:50 UTC
From: pverhage1960
Topic: 880 Message: 880

OnSet Computing, the manufacturer of the Hobo data logger has set up the OnSet Prize for 2004. The group with the highest flight this year will win a 4 channel, 8 bit data logger, a copy of their advanced software, and a remote temperature sensor. They are worth about $200 and all you have to do is get the highest flight this year.

Please announce your flight in advance and post the highest altitude packet recieved during the flight. I'll be traveling this winter, so I may be able to present the award myself. If not, I'll send it in the mail.

OnSet also send some catalogs so you can look at their other products. The data loggers are used by the BalloonSat programs and I had one to show at GPSL. If you wouldn't mind, I'd like to send a couple of catalogs to each group. I was hoping they would arrive in time for GPSL so I could include them with the packets we handed out this year. Please reply back to me with an address I could send your group some of the catalogs.

We need to keep track of high flights this year. Ralph, is this something you could do for us?

Thanks everyone,
Paul

881. OnSet part two

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 00:39:15 UTC
From: pverhage1960
Topic: 881 Message: 881

I forgot to ask everyone to pass the word about the OnSet Prize.
Please let everyone know and I'll be announcing it in Nuts and Volts
magazine.

Zack, how are the articles going?

Paul

882. Re: [GPSL] OnSet part two

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 02:51:11 UTC
From: Zack Clobes
Topic: 881 Message: 882

CQ-VHF has been submitted. I'm still working on the ATV Quarterly.

pverhage1960 wrote:

>I forgot to ask everyone to pass the word about the OnSet Prize.
>Please let everyone know and I'll be announcing it in Nuts and Volts
>magazine.
>
>Zack, how are the articles going?
>
>Paul
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>Yahoo! Groups Links
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883. 20K119

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 09:35:28 UTC
From: Mark Conner
Topic: 883 Message: 883

Is the person with the mailing address
2OK119@... on here? I've tried responding twice
to your e-mails, but I get a bounce saying there is no such user
as '2OK119'.

73 de Mark N9XTN

884. Re: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 09:38:22 UTC
From: Mark Conner
Topic: 875 Message: 884

NSTAR's landing site was 37? 54.42' N, 96? 57.82' W.

73 de Mark N9XTN

----- Original Message -----
From: "pverhage1960" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, July 10, 2004 12:52
Subject: [GPSL] Landing Sites

> I got three or four predicted landing sites. I need eveyone's
GPS
> coordinates of their landings to figure who was closest to
their
> prediction.
>
> Paul
>

885. Re: [GPSL] ARHAB articles and awards vs for-profit journals

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 04:16:42 UTC
From: Mike Manes
Topic: 868 Message: 885

Hi Ralph,

Paul seems to have a whole lot better luck ni getting published in
the broader journals than EOSS does - we just collect rejection
notices ...

And I do think it's important to get our story out beyond our own
little choir. Not only to expand interest amongst other clubs, but
to bring more new members into out existing ones. This is not to say
that we should publish nitty-gritty advanced ballooning technology
stuff in QST, etc. We have a pretty good forum(s) (fora??) for that
already.

The only ham rags I subscribe to are QST and QEX -- and those go unread
for too long already. But one of our members does get N&V and brings
in cc's of Paul's column to pass around at our meetings.

I agree that running an awards program for balloning is no big deal
(altho I suspect you're a better judge of that!). But organizing
the GPSL is a HUGE burden, and that's the "heavy lifting" that I
was referring to. Eight EOSS members spent 9 months putting together
the 1st (and Last?) Small Balloon Conference and Proceedings back in
'93. The GPSL conference isn't burdened with published proceedings,
but it sure would be nice to have such a document on the shelf every
year. And that's where a publisher could really shine!

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Hmmm, maybe now is the time to offer an opinion that may generate flaming
> responses.
>
> I am not a subscriber to Nuts & Volts, CQ-VHF or ATV Journal. Consequently
> I will not be reading Paul's columns in Nuts & Volts nor will I be reading
> Zack's GPSL2004 article in CQ-VHF. I believe something is going wrong when
> our collective information is being published in for-profit journals rather
> then in extensive web pages that already exist and are available to
> everyone.
>
> I believe information in these articles and columns belongs to all of us.
> There is not one project, program, individual or author that has not
> benefited significantly by learning from time, energy and money invested by
> other members of our informal group. Most group members regularly go far
> out of their way to openly publish details of their successes and failures
> in freely accessible web pages.

>
> Only a very small fraction of content in Nuts & Volts, CQ-VHF, ATV Journal
> will ever be dedicated to Amateur Radio High Altitude Ballooning. We can
> serve our very small group much more efficiently and dependably via web
> publishing that is available to experts and fledglings alike without the
> subscription expense of for-profit journals.
>
> I do not believe annual coordination of a nomination-based award scheme is
> any where near "heavy lifting". Volunteer coordinators and peer reviewers
> will invest a little time and energy but there will be very little expense.
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

886. Re: [GPSL] 20K119

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 17:12:34 UTC
From: Robert 2OK119
Topic: 883 Message: 886

I dont know whats up with this email some times but you can try to email me
at my yahoo Copenhagen4me@...

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
To: "GPSL List" <gpsl@yahoogroups.com>
Sent: Sunday, July 11, 2004 4:35 AM
Subject: [GPSL] 20K119

> Is the person with the mailing address
> 2OK119@... on here? I've tried responding twice
> to your e-mails, but I get a bounce saying there is no such user
> as '2OK119'.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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887. Re: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 19:02:30 UTC
From: Don Pfister
Topic: 875 Message: 887

pverhage1960 wrote:

> I got three or four predicted landing sites. I need eveyone's GPS
> coordinates of their landings to figure who was closest to their
> prediction.
>
> Paul

> > Don, I took GPS readings of HABITAT balloon at launch, N 38* 21.6551' &
> > W 097* 41.167' . The landing was at N 38* 09.684 & W 097* 55.2811. 73
> > Andy W0AFQ
>

Paul, here is our landing Lat/Long.

Has anyone made a map of all flights yet?

We are working on moving secondary data over to our primary data (144.34) to add the last part of decent to a mapable file.

Great flight! Lots of fun!

Our newest ham, should have it ticket this week. He successfully passed his license exam Saturday! Our two newest: Dean KC0SSI issued 7/1/04, Chris passed the exam 7/10/04. GPSL 2004 milestones for HABITAT SkyLab! ;-)

73
Don

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

888. Re: [GPSL] FTP site for photo uploads

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 20:37:39 UTC
From: Zack Clobes
Topic: 824 Message: 888

Could you send me the instructions for the FTP site. I've got a variety
of photos, including aerial, to upload.

Also, could you resend the photos that Shari took - my spam filter ate them.

Thanks,
Zack

Mark Conner wrote:

>I've made an FTP site for uploading photos from this year's GPSL.
>FTP to n9xtn (dot) dyndns (dot) org. Your login ID will be your
>group name (EOSS, TRAVELER, ORB, HABITAT, IDAHO) and your
>password is the callsign and SSID you flew with your primary
>payload. All letters are caps, and the password includes the
>hyphen before the SSID. I didn't want to type everything out for
>fear of a password-harvesting program getting the information.
>If you have trouble with the FTP server let me know.
>
>If anyone else not part of one of these groups would like to
>contribute pictures, e-mail me and I'll send you instructions.
>
>Alternatively, you can e-mail me pictures at mark_conner (at)
>cox.net. You may be limited on file size and the mailbox limit.
>
>73 de Mark N9XTN
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>Yahoo! Groups Links
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889. GPSL 2004 pictures

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 21:57:22 UTC
From: Mark Conner
Topic: 889 Message: 889

I have sent FTP instructions to at least one person from all the groups that flew. If anyone else would like to contribute pictures to the GPSL 2004 CD, just e-mail me for details.

73 de Mark N9XTN

890. RE: [GPSL] OnSet part two

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 22:29:48 UTC
From: ATVQ
Topic: 881 Message: 890

I go to press this coming Thursday, July 15th, and ATVQ is filling fast to meet the deadline. I would like to run something, but will need to know when it will come and about what size the article will be.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publishers of:
Amateur Television Quarterly
ATVQ@...
http://www.hampubs.com

-----Original Message-----
From: Zack Clobes [mailto:zclobes@...]
Sent: Saturday, July 10, 2004 9:51 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] OnSet part two

CQ-VHF has been submitted. I'm still working on the ATV Quarterly.

pverhage1960 wrote:

>I forgot to ask everyone to pass the word about the OnSet Prize.
>Please let everyone know and I'll be announcing it in Nuts and Volts
>magazine.
>
>Zack, how are the articles going?
>
>Paul
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>Yahoo! Groups Links
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Yahoo! Groups Links

891. Re: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-11 22:45:44 UTC
From: Zack Clobes
Topic: 875 Message: 891

Where did yours land, Paul?

Zack

pverhage1960 wrote:

>I got three or four predicted landing sites. I need eveyone's GPS
>coordinates of their landings to figure who was closest to their
>prediction.
>
>Paul
>
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>Yahoo! Groups Links
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892. Re: [GPSL] Digest Number 248

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-12 21:49:13 UTC
From: K. Mark Caviezel
Topic: 892 Message: 892

Message: 6
Date: Sun, 11 Jul 2004 00:36:50 -0000
From: "pverhage1960"
<paul.verhage@...>
Subject: OnSet Prize

Paul:
this is for calendar year 2004 ?

- KMC ac0ak Denver

893. GPSL 2004 track maps

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-13 23:35:54 UTC
From: Mark Conner
Topic: 893 Message: 893
Attachments: 2 described; binary payloads are missing from this source WARC

Attached is a GIF showing all 6 balloon tracks from this year's GPSL. Also I have a Street Atlas 9 file with the same info.

Track data was recreated from the FindU archive and may not contain the very last position reports, but at this scale the landings are probably within the blue squares in the GIF. In the HABITAT case, Don sent me his Rino log data and I reformatted it into APRS posits so his track is truly start to finish.

73 de Mark N9XTN

894. Picture contributions

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-14 22:29:05 UTC
From: Mark Conner
Topic: 894 Message: 894

I have pictures from TRAVELER, ORB, and HABITAT so far - almost
200 Mbytes worth! More are welcome for any of the groups - if
you didn't already get login/password information just e-mail me.

73 de Mark N9XTN

895. NSTAR landing location at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-15 00:12:18 UTC
From: Mark Conner
Topic: 895 Message: 895
Attachments: 1 described; binary payloads are missing from this source WARC

As many of you know, we had a little difficulty finding the NSTAR payloads at this year's GPSL. The attached graphic provides some background.

The main payload (N9XTN-11) exhausted its batteries prematurely, at about 29,000 ft on descent. The backup payload (N9XTN-12) continued to function, and its last airborne position at 2788 ft AGL was digipeated and I was able to receive it while I was over 30 miles away helping Paul recover his flight.

After making a couple of loops around the section where it landed, we were unable to hear any signals from any of the payloads. Part of the EOSS T&R team also joined us and began listening. We made contact with the landowner and he volunteered to take us out in his 4WD truck to help us look. Initially we looked too far south, then we spotted the payloads after going north about 300-400 yards.

Although I took my GPS with me for the hunt, I forgot to enter the last known location into the GPS. This might have helped us focus our search a little better, since we knew the overall track and speed. With a 30-mph forward speed, a 1200 ft/min descent, and about 1200 ft to the landing, I figured the payload could have traveled up to a half-mile from its last position. The actual distance was only 0.28 miles and a little to the left of the expected landing position.

73 de Mark N9XTN

897. Suntracker X balloon Findlay Ohio Sat July 17th at 10:30 EDT

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 17:08:08 UTC
From: wb8elk@aol.com
Topic: 897 Message: 897

Launchsite: Findlay, Ohio

APRS callsign: KC8MSY

144.34 MHz APRS

439.25 MHz live camera ATV (note: vertical polarization)

Launchtime: Sat. July 17th at 10:30 am EDT

Preliminary predicted landing site about 16 miles to the south at a 180 degree heading.

898. GPSL 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 19:01:22 UTC
From: paul.verhage@boiseschools.org
Topic: 839 Message: 898

> Great event, and looking forward to GPSL '05 - any takers?

We do!!!

Drum roll please......

GPSL 2005 will be hosted by NSTAR. Over to you, Mark.

Paul

899. Balloon Group in Kansas

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 19:07:23 UTC
From: mgray@ess-us.com
Topic: 899 Message: 899

Is there a balloon group that operates near The University of Kansas in Lawerence, KS? I have an e-mail from a university group that needs some assistance. I've answered his questions for now, but was hoping to have them work with a local group. Since the university if working as part of NASA Space Grant, it might help to get you some funding for balloon flights.

Thanks,
Michael Gray

900. OnSet Prize

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 19:13:05 UTC
From: paul.verhage@boiseschools.org
Topic: 831 Message: 900

Remember, I need to know the highest flight for this year. I have about $200 in awards for that flight.

Please pass the word around.

Paul

901. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 19:37:05 UTC
From: paul.verhage@boiseschools.org
Topic: 854 Message: 901

I like this idea.

Do we want to create a permanent GPSL webpage? I guess we would use the calendar year for events.

Paul

> Perhaps we can give recognition for accomplishments and advancements without
> the overhead of an umbrella organization. It is common for this process to
> start with nominations, e.g., the Ig Nobel Prize
> (http://www.improb.com/ig/ig-top.html), followed by a winnowing process and
> final selection by a peer committee. Awards could be serious, e.g.,
> breaking the altitude record, or in fun, e.g., longest recovery time, but
> nothing is automatic. Nominations and review would be required.
>
> Recognition could be given at our GPSL evening dinner. Coordination would
> be a reasonable responsibility for one person (per year) including
> soliciting, receiving and forwarding nominations, coordinating the decision
> process and arranging for certificates, all in a couple of months before
> GPSL (starting May 1st?). A web page would announce and archive results.
>
> My format for our records page is getting pretty big, ~450kB. I am thinking
> of rebuilding it this winter so it loads in more reasonable time for dial-up
> users. Perhaps a main page with the top 3 in each category and links to
> sub-pages for each category with full detail.
>
> -w0rpk
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> Yahoo! Groups Links
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902. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 19:44:47 UTC
From: paul.verhage@boiseschools.org
Topic: 854 Message: 902

I can ask N&V and Parallax, if there's an interest in doing this.

Paul

> Hi Ralph,
>
> Hmmm .. the IgNobel is sponsored by Jour. Irrep. Results, isn't it?
> Maybe N&V, CQ VHF or ATV Journal would be willing to do the heavy
> lifting at a national level. Joe Lynch W6CL expressed his sincere
> intent to support ham radio ballooning in earnest. Of course, there's
> some pecuniary interst there ...
>
> Re awards: EOSS's very own version of the IgNobel is the coveted
> Lawn Chair Larry, after Larry Walters R.I.P., given to the EOSS member
> most dearly deserving of that Exhaulted Honour :=}
>
> 73 de Mike W5VSI
>
> "Ralph Wallio, W0RPK" wrote:
> >
> > Perhaps we can give recognition for accomplishments and advancements without
> > the overhead of an umbrella organization. It is common for this process to
> > start with nominations, e.g., the Ig Nobel Prize
> > (http://www.improb.com/ig/ig-top.html), followed by a winnowing process and
> > final selection by a peer committee. Awards could be serious, e.g.,
> > breaking the altitude record, or in fun, e.g., longest recovery time, but
> > nothing is automatic. Nominations and review would be required.
> >
> > Recognition could be given at our GPSL evening dinner. Coordination would
> > be a reasonable responsibility for one person (per year) including
> > soliciting, receiving and forwarding nominations, coordinating the decision
> > process and arranging for certificates, all in a couple of months before
> > GPSL (starting May 1st?). A web page would announce and archive results.
> >
> > My format for our records page is getting pretty big, ~450kB. I am thinking
> > of rebuilding it this winter so it loads in more reasonable time for dial-up
> > users. Perhaps a main page with the top 3 in each category and links to
> > sub-pages for each category with full detail.
> >
> > -w0rpk
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>

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> Yahoo! Groups Links
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903. Re: [GPSL] ARHAB articles and awards vs for-profit journals

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 19:50:58 UTC
From: paul.verhage@boiseschools.org
Topic: 868 Message: 903

I don't think we have any worries here.

I'm not only making my information available for the magazine. I'll still be sharing everything I know freely. My book will be available as a free download from parallax. My articles will eventually be rolled into an updated version of the book.

Whew, if I knew it was going to be this much work......

Paul

>
> Just my opinion!
>
> I also do not subscribe to either mag, although I do pick up a copy of
> each off the news stand from time to time. If individuals like to submit
> articles for publication that is their right and if they also wish to not
> make that information available to the masses through the web, that is
> also their right, but one of the things that has drawn me to ballooning
> is the sharing of information by almost all balloon groups, either by email
> or websites. I would like to see everyone continue to share and not confine
> their accomplishments and findings to publications!
>
> Peace!
> 73
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
>
>
> Subject: [GPSL] ARHAB articles and awards vs for-profit journals
>
>
> > Hmmm, maybe now is the time to offer an opinion that may generate flaming
> > responses.
> >
> > I am not a subscriber to Nuts & Volts, CQ-VHF or ATV Journal. Consequently
> > I will not be reading Paul's columns in Nuts & Volts nor will I be reading
> > Zack's GPSL2004 article in CQ-VHF. I believe something is going wrong when
> > our collective information is being published in for-profit journals rather
> > then in extensive web pages that already exist and are available to
> > everyone.
> >

> snip...
>
>
>
>

904. RE: [GPSL] Balloon Group in Kansas

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 20:06:06 UTC
From: Steve KA5YFC
Topic: 899 Message: 904

Michael,

HABITAT SkyLab is in Overland Park. Please check out our page at:

http://habitat.netlab.org/index.shtml

Please feel free to contact us at habitat@... or ka0jlf@...

If they are able to come into Overland Park on Saturday, 17 July, we
will be meeting at the Godfather's at Antioch and 83rd St. at 12:00ish
till around 4:30pm. We would be glad to talk to them.

Please pass this information along and if they need a telephone contact
they can e-mail me direct for the number. My e-mail is ka5yfc@....

Thanks for the heads up.

Steve

-----Original Message-----
From: mgray
Subject: [GPSL] Balloon Group in Kansas

Is there a balloon group that operates near The University of Kansas in
Lawerence, KS? I have an e-mail from a university group that needs some
assistance. I've answered his questions for now, but was hoping to have
them work with a local group. Since the university if working as part
of
NASA Space Grant, it might help to get you some funding for balloon
flights.

Thanks,
Michael Gray

905. Re: [GPSL] Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 20:08:20 UTC
From: paul.verhage@boiseschools.org
Topic: 875 Message: 905

I didn't make a prediction, I thought it would look bad, since I set up the competitions.

I landed next to a bush. I'll have to get the GPS coordinates and post them.

I haven't seen any logs yet. Can some one sending me a copy of my balloon posits?

Paul

> Where did yours land, Paul?
>
> Zack
>
> pverhage1960 wrote:
>
> >I got three or four predicted landing sites. I need eveyone's GPS
> >coordinates of their landings to figure who was closest to their
> >prediction.
> >
> >Paul
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> >Yahoo! Groups Links
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> Yahoo! Groups Links
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906. OnSet Prize Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 20:09:03 UTC
From: paul.verhage@boiseschools.org
Topic: 892 Message: 906

Yes, it's for 2004.

Paul
>
> Paul:
> this is for calendar year 2004 ?
>
> - KMC ac0ak Denver
>
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> Yahoo! Groups Links
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907. Re: [GPSL] Picture contributions

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 20:19:09 UTC
From: paul.verhage@boiseschools.org
Topic: 894 Message: 907

I just got back from backpacking in Yosemite. They have a forest fire and we were asked to leave early.

I'll get stuff together and send it out.

please don't forget, if you presented, please send text that can be included int he CD.

Mark, I'd like to get extra copes of the CD for Parallax, Nuts and Volts, and Global Aerospace.

Paul

> I have pictures from TRAVELER, ORB, and HABITAT so far - almost
> 200 Mbytes worth! More are welcome for any of the groups - if
> you didn't already get login/password information just e-mail me.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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908. RE: [GPSL] Balloon Group in Kansas

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 21:03:10 UTC
From: mgray@ess-us.com
Topic: 899 Message: 908

Steve,

Thank you for the fast response. I'll forward your information on to the group. They've attempted flights in the past, but lost hardware and weren't able to track the payloads.

Michael Gray

On Fri, 16 Jul 2004, Steve KA5YFC wrote:

> Michael,
>
> HABITAT SkyLab is in Overland Park. Please check out our page at:
>
> http://habitat.netlab.org/index.shtml
>
> Please feel free to contact us at habitat@... or ka0jlf@...
>
> If they are able to come into Overland Park on Saturday, 17 July, we
> will be meeting at the Godfather's at Antioch and 83rd St. at 12:00ish
> till around 4:30pm. We would be glad to talk to them.
>
> Please pass this information along and if they need a telephone contact
> they can e-mail me direct for the number. My e-mail is ka5yfc@....
>
> Thanks for the heads up.
>
> Steve
>
>
> -----Original Message-----
> From: mgray
> Subject: [GPSL] Balloon Group in Kansas
>
>
> Is there a balloon group that operates near The University of Kansas in
> Lawerence, KS? I have an e-mail from a university group that needs some
> assistance. I've answered his questions for now, but was hoping to have
> them work with a local group. Since the university if working as part
> of
> NASA Space Grant, it might help to get you some funding for balloon
> flights.
>
> Thanks,
> Michael Gray
>

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> Yahoo! Groups Links
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909. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 22:56:29 UTC
From: Zack Clobes
Topic: 854 Message: 909

I'd be willing to maintain the page if someone could come up with an ISP. Ideally we should have at least a couple hundred megabytes of storage where we could put videos and plenty of photos online.

Having PHP/MySQL would be a huge plus as far as I'm concerned.

Zack Clobes, W0ZC

paul.verhage@... wrote:

I like this idea.

Do we want to create a permanent GPSL webpage? I guess we would use the calendar year for events.

Paul

Perhaps we can give recognition for accomplishments and advancements without the overhead of an umbrella organization. It is common for this process to start with nominations, e.g., the Ig Nobel Prize (http://www.improb.com/ig/ig-top.html), followed by a winnowing process and final selection by a peer committee. Awards could be serious, e.g., breaking the altitude record, or in fun, e.g., longest recovery time, but nothing is automatic. Nominations and review would be required.

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-w0rpk

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<*> To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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http://docs.yahoo.com/info/terms/

910. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 23:04:13 UTC
From: mgray@ess-us.com
Topic: 854 Message: 910

I have bandwidth and a Linux server with Apache 2.x, PHP, and MySQL that
would fit the bill. It has 120+ GB of free space and I can always throw
on another 250GB drive if we really needed it. Sorry, no Windoze here.

Something to consider....

On Fri, 16 Jul 2004, Zack Clobes wrote:

> I'd be willing to maintain the page if someone could come up with an ISP.? Ideally we
> should have at least a couple hundred megabytes of storage where we could put videos and
> plenty of photos online.
>
> Having PHP/MySQL would be a huge plus as far as I'm concerned.
>
> Zack Clobes, W0ZC
>
>
> paul.verhage@... wrote:
>
> I like this idea.
>
> Do we want to create a permanent GPSL webpage? I guess we would use the
> calendar year for events.
>
> Paul
>
>
>
>
> Perhaps we can give recognition for accomplishments and advancements without
> the overhead of an umbrella organization. It is common for this process to
> start with nominations, e.g., the Ig Nobel Prize
> (http://www.improb.com/ig/ig-top.html), followed by a winnowing process and
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> nothing is automatic. Nominations and review would be required.
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> Recognition could be given at our GPSL evening dinner. Coordination would
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> process and arranging for certificates, all in a couple of months before
> GPSL (starting May 1st?). A web page would announce and archive results.
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> My format for our records page is getting pretty big, ~450kB. I am thinking
> of rebuilding it this winter so it loads in more reasonable time for dial-up
> users. Perhaps a main page with the top 3 in each category and links to

> sub-pages for each category with full detail.
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> -w0rpk
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>

911. Re: [GPSL] N9XTN - KC5TRB EBBE

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-16 23:14:29 UTC
From: Zack Clobes
Topic: 854 Message: 911

That would be fine with me - that's about what I'm doing all of my new development on now days.

I assume that it has a public IP that we can point a domain at?

ZC

mgray@... wrote:

I have bandwidth and a Linux server with Apache 2.x, PHP, and MySQL that would fit the bill. It has 120+ GB of free space and I can always throw on another 250GB drive if we really needed it. Sorry, no Windoze here.

Something to consider....

On Fri, 16 Jul 2004, Zack Clobes wrote:

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paul.verhage@... wrote:

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Paul

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-w0rpk

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<*> Your use of Yahoo! Groups is subject to:
http://docs.yahoo.com/info/terms/

912. Re: [GPSL] N9XTN - KC5TRB EBBE WEB SITE for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-17 01:57:43 UTC
From: wb8elk@aol.com
Topic: 912 Message: 912

I checked online and found that the following two domain names are available so I grabbed them for use as a GPSL domain name (sadly GPSL.ORG was not available).

http://www.gpsl.info

and

http://www.gpsl.biz

I can point them to any URL website.

I also have: "http://www.hamradioballoons" that I can point to a site as well.

- Bill WB8ELK

913. Re: [GPSL] N9XTN - KC5TRB EBBE WEB SITE for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-17 02:32:07 UTC
From: Zack Clobes
Topic: 912 Message: 913

I kind of liked Paul's suggestion of superlaunch.com or whatever.

wb8elk@... wrote:
I checked online and found that the following two domain names are available so I grabbed them for use as a GPSL domain name (sadly GPSL.ORG was not available).

http://www.gpsl.info

and

http://www.gpsl.biz

I can point them to any URL website.

I also have: "http://www.hamradioballoons" that I can point to a site as well.

- Bill WB8ELK

914. Re: [GPSL] Balloon Group in Kansas

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-17 03:06:04 UTC
From: Don Pfister
Topic: 899 Message: 914

Steve KA5YFC wrote:

> Michael,
>
> HABITAT SkyLab is in Overland Park. Please check out our page at:
>
> http://habitat.netlab.org/index.shtml

I would prefer to publish this web site, http://habitatskylab.org, but it is still new. It has a link for GPSL 2004 - barely anything there, but it will auto load the old page for now.

>
>
> Please feel free to contact us at habitat@... or ka0jlf@...

Actully, it is best not to use habitat@..., I will probably be removing that email, but ka0jlf@... OR HABITAT_SkyLab@... would be ok.

We would love to help them out.

> If they are able to come into Overland Park on Saturday, 17 July, we
> will be meeting at the Godfather's at Antioch and 83rd St. at 12:00ish
> till around 4:30pm. We would be glad to talk to them.
>
> Please pass this information along and if they need a telephone contact
> they can e-mail me direct for the number. My e-mail is ka5yfc@....
>
> Thanks for the heads up.
>
> Steve
>
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> From: mgray
> Subject: [GPSL] Balloon Group in Kansas
>
> Is there a balloon group that operates near The University of Kansas in
> Lawerence, KS? I have an e-mail from a university group that needs some
> assistance. I've answered his questions for now, but was hoping to have
> them work with a local group. Since the university if working as part
> of
> NASA Space Grant, it might help to get you some funding for balloon
> flights.
>
> Thanks,
> Michael Gray

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

915. [GPSL] HamRadioBalloons.com website test

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-17 05:00:02 UTC
From: wb8elk@aol.com
Topic: 915 Message: 915

I put up a test phpBB website to see how it works out.

http://www.hamradioballoons.com

- Bill WB8ELK

916. Re: [GPSL] GPSL 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-17 12:29:03 UTC
From: Mike Manes
Topic: 839 Message: 916

Kudos, Mark! I think you can count on another EOSS contingent
for GPSL '05. Looking forward to hearing the date and venue.

The 4th of July is on Monday in 2005, so if that weekend still works,
then conference on Fri 7/1/05, Launch Sat 7/2 w/ wx date Sun 7/3?

73 de Mike W5VSI, EOSS

paul.verhage@... wrote:
>
> > Great event, and looking forward to GPSL '05 - any takers?
>
> We do!!!
>
> Drum roll please......
>
> GPSL 2005 will be hosted by NSTAR. Over to you, Mark.
>
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

917. Re: [GPSL] GPSL 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-17 17:01:46 UTC
From: Mark Conner
Topic: 839 Message: 917

Another possibility is having the conference on Saturday, flight Sunday, backup date Monday. That might save a day of vacation for some people. I can go either way.

I had also thought about having it Memorial Day weekend. The Iowa corn will be a heck of a lot shorter, but the weather is more iffy (more likely to have stronger winds surface and aloft in May than July).

73 de Mark N9XTN

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <GPSL@yahoogroups.com>
Cc: "EOSS membership reflector" <EOSS@yahoogroups.com>
Sent: Saturday, July 17, 2004 07:29
Subject: Re: [GPSL] GPSL 2005

> Kudos, Mark! I think you can count on another EOSS contingent
> for GPSL '05. Looking forward to hearing the date and venue.
>
> The 4th of July is on Monday in 2005, so if that weekend still works,
> then conference on Fri 7/1/05, Launch Sat 7/2 w/ wx date Sun 7/3?
>
> 73 de Mike W5VSI, EOSS
>

918. NSTAR 04-D (GPSL) recap posted

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-18 05:26:09 UTC
From: Mark Conner
Topic: 918 Message: 918

See http://www.nstar.org/#04D for more. I only have one picture posted - more will come later on.

73 de Mark N9XTN

919. Re: Entry for greatest telemetry downlink reception range

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-18 14:25:01 UTC
From: Ralph Wallio, W0RPK
Topic: 919 Message: 919

Bill,

Fantastic! Thanks for your significant effort to have the right equipment
at the right place at the right time to shatter our telemetry reception
distance record. Ok you westerners, starting picking your mountain tops.
This record is no longer (using intelligence-speak) a slam dunk.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: <WB8ELK@...>
To: <wallio@...>
Cc: <WB8ELK@...>; <woodyard@...>
Sent: Saturday, July 17, 2004 5:43 PM
Subject: Entry for greatest telemetry downlink reception range

Hi Ralph,

Here's my entry for the Greatest Telemetry Downlink Reception Range
category (VHF)....mode BE (Balloon Earth).

from the KC8MSY balloon on 144.34 FM APRS on July 17th, 2004.

I started to receive the balloon weakly at 1650z (about 103,000 ft at that
point) and it rapidly got strong enough to hear on FM. I started to get good
copy on the packet telemetry at 1657:45 when it was at 108,091 feet over
Pandora,
Ohio. I copied the telemetry (up to a strong S-4 signal) until burst around
1703:05z when it was at 111,363 feet. There may be one more altitude packet
that I didn't receive. I'll check with the launch team. When I find out the
final
altitude packet, I'll have them send that to you for the altitude records
section.

My QTH coordinates in Falkville, AL (Wilson Mountain):

34d 24.53m
86d 48.77
1120 ft elevation (500 feet HAAT.)

KC8MSY balloon at furthest reception (1703:05z GPGGA packet):

40d 56.8524
83d 52.397
111,363 ft altitude

According to the online GCD calculator I used that works out to 479 miles.

My station stats:....Icom 706, Cushcraft 11-element beam on tripod 10 feet off the ground (on the edge of a 500-foot tall cliff), Kantronics KPC3.

A portion of the recorded packet information I received here in Alabama on 144.34 MHz FM:
(I used the last $GPGGA frame received (1703:55z) for my distance calculation.)

$GPGGA,170255,4056.8218,N,08352.3100,W,1,08,1.3,33903.2,M,-33.8,M,,/LAST FIX
KC8MSY>APRTLM: <<UI>>:
T#046,254,003,213,201,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#047,254,000,213,199,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#048,254,000,212,202,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#050,254,015,212,202,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#051,252,000,211,198,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#052,253,128,213,201,000,11111111, MIM v1.07
KC8MSY>APRS: <<UI>>:
$GPGGA,170305,4056.8524,N,08352.3970,W,1,08,1.3,33943.3,M,-33.8,M,,/LAST FIX
KC8MSY>APRTLM: <<UI>>:
T#057,253,169,213,201,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#058,254,000,214,200,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#059,252,000,212,198,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#060,254,150,213,201,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#061,254,000,213,202,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#062,252,000,212,199,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#063,253,145,213,201,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#064,253,047,212,202,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#066,254,012,213,202,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#067,254,000,213,200,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#068,254,005,214,202,000,11111111, MIM v1.07
KC8MSY>APRTLM: <<UI>>:
T#077,254,000,211,201,000,11111111, MIM v1.07

920. Re: [GPSL] Re: Entry for greatest telemetry downlink reception range

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-18 18:05:05 UTC
From: wb8elk@aol.com
Topic: 919 Message: 920

I can't wait to see someone break the 500 mile balloon reception barrier!!!!....I calculated that at 479 miles, I'd start to pick up the KC8MSY Ohio balloon at 103,000 feet and it came out of the noise at precisely that altitude. Since the balloon was almost over my parent's farm in Ohio, I told my Dad (WB8MSJ) that if he put up a 110,000 foot tall tower we could work every day on 2 meters. He replied that he had trouble climbing a 50-foot tower, let alone one that tall.

- Bill WB8ELK

921. RE: [GPSL] Re: Entry for greatest telemetry downlink reception range

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-18 19:33:22 UTC
From: ATVQ
Topic: 919 Message: 921

Shari & I were hearing the 144.34 packet for almost 2 hours here in Rockford, Illinois. Your dad could talk to us as well. S meter was 4 out of 10. No video though, but the 440 beam I have is horizontal.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publishers of:
Amateur Television Quarterly
ATVQ@...
http://www.hampubs.com

-----Original Message-----
From: wb8elk@... [mailto:wb8elk@...]
Sent: Sunday, July 18, 2004 1:05 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: Entry for greatest telemetry downlink reception range

I can't wait to see someone break the 500 mile balloon reception barrier!!!!....I calculated that at 479 miles, I'd start to pick up the KC8MSY Ohio balloon at 103,000 feet and it came out of the noise at precisely that altitude. Since the balloon was almost over my parent's farm in Ohio, I told my Dad (WB8MSJ) that if he put up a 110,000 foot tall tower we could work every day on 2 meters. He replied that he had trouble climbing a 50-foot tower, let alone one that tall.

- Bill WB8ELK

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922. Cheap balloons?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 15:20:54 UTC
From: Gene Harlan
Topic: 922 Message: 922

Cheap is not always the best, but for your information. I just discovered this site.

http://www.sciplus.com/sale.cfm

Weather Balloon!
The weather balloon is a perennial favorite at A.S.&S. This one, of tan-colored latex, is rated at 10 feet dia but we'd stop at 8 feet to be on the safe side. It's available with a 1-1/2" x 3-1/2" dia O-ring and heavy 1-3/4" dia nozzle, or with a standard reinforced 2-3/4" neck. (Both have a dusting of talc as a preservative.) Great fun, but remember -- this is, indeed, a meteorological balloon. It's not made to bump into anything sharper than a cloud. Hit concrete, roof shingles or a patch of crabgrass with it when it's inflated, and that balloon is history!

They are selling for $7.95.

It is under the sale items. No connection with this company and only discovered it as it was recommended by an ATV'er that I met at a hamfest a couple of weeks ago.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

923. Re: [GPSL] Cheap balloons?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 15:23:37 UTC
From: Harry M
Topic: 922 Message: 923

Here is the response I got from them...

Dear Harry,
Thanks for your question. All three of the weather balloons that we have in stock were manufactured by Kaysam International. 34713 and 34751 were made between fall 2000 and spring 2001, and weigh 800g and 700g respectively, and 29842 was made in early 1984, and weighs 2210g. Please let me know if I can be of any help to you in the future.

Best regards,

CJ Baehni

Technical Department

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Subject: [GPSL] Cheap balloons?

Cheap is not always the best, but for your information. I just discovered this site.

http://www.sciplus.com/sale.cfm

924. Re: [GPSL] N9XTN - KC5TRB EBBE WEB SITE for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 18:15:24 UTC
From: paul.verhage@boiseschools.org
Topic: 912 Message: 924

Actually that was someone else's suggestion. But it is a good one.

Paul

> I kind of liked Paul's suggestion of superlaunch.com or whatever.
>
>
> wb8elk@... wrote:
> I checked online and found that the following two domain names are available so I grabbed
> them for use as a GPSL domain name (sadly GPSL.ORG was not available).
>
> http://www.gpsl.info
>
> and
>
> http://www.gpsl.biz
>
> I can point them to any URL website.
>
> I also have: "http://www.hamradioballoons" that I can point to a site as well.
>
> - Bill WB8ELK
>
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>
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>
>
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> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
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925. GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 18:25:00 UTC
From: paul.verhage@boiseschools.org
Topic: 925 Message: 925
Attachments: 2 described; binary payloads are missing from this source WARC

I have the write up on the awards for GPSL. I am missing information. Please look over the attachment and give me the missing info.

Thanaks,
Paul

926. OnSet Prize

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 18:26:01 UTC
From: paul.verhage@boiseschools.org
Topic: 880 Message: 926
Attachments: 2 described; binary payloads are missing from this source WARC

Attached is the formal announecment of the OnSet Prize. Please pass this around.

Paul

927. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 19:10:17 UTC
From: Harry M
Topic: 925 Message: 927

Hi Paul,

ORB's official altitude was...
KC5TRB-11>APT310,N9XTN-9*,WIDE3-3:
<UI>:/145935h3812.74N/09729.20WO251/007/A=082944

My last name is spelled Mueller.

Thanks!
73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Subject: [GPSL] GPSL 2004 Awards

> I have the write up on the awards for GPSL. I am missing information.
Please look
> over the attachment and give me the missing info.
>
> Thanaks,
> Paul

928. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 19:38:08 UTC
From: Ralph Wallio, W0RPK
Topic: 925 Message: 928

I use a DIY EXCEL spreadsheet with Geometry Functions add-in (see http://nmml.afsc.noaa.gov/Software/ExcelGeoFunctions/excelgeofunc.htm) to calculate distances between sets of coordinates for our records. This method yields the following distances:

KC5TRB 15.13 miles
W0ZC 51.27 miles
W5VSI 11.44 miles
N9XTN 14.11 miles

All of these prediction errors exceed our collective records average of ~8.2 miles.

-w0rpk

----- Original Message -----
From: <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, July 19, 2004 1:25 PM
Subject: [GPSL] GPSL 2004 Awards

I have the write up on the awards for GPSL. I am missing information. Please look
over the attachment and give me the missing info.

Thanaks,
Paul

929. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 21:35:41 UTC
From: n9xtn@cox.net
Topic: 925 Message: 929

NSTAR had a max altitude of 84,875 ft.

Website is http://www.nstar.org

The highest for W5VSI-11 available on FindU was 88,027 ft, but they may have additional data available:

W5VSI-11>APRS,qAR,W0ZC:$GPGGA,152854,3812.0267,N,09732.1616,W,1,05,1.03,26831.2,M,-26.9,M,,*40

73 de Mark N9XTN

----- Original Message -----
From: <paul.verhage@...>
Date: Monday, July 19, 2004 1:25 pm
Subject: [GPSL] GPSL 2004 Awards

> I have the write up on the awards for GPSL. I am missing
> information. Please look
> over the attachment and give me the missing info.
>
> Thanaks,
> Paul
>

930. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 23:28:28 UTC
From: Zack Clobes
Topic: 925 Message: 930

There's a typo on my touchdown point. It should be 97W for the touchdown. That works out to be less than 6 miles.

Also, my burst altitude was 94,467ft (28,794m).

Zack Clobes, W0ZC
Project: Traveler

paul.verhage@... wrote:

I have the write up on the awards for GPSL. I am missing information. Please look over the attachment and give me the missing info.

Thanaks,
Paul

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http://groups.yahoo.com/group/GPSL/

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---- File information -----------
File: GPSL 2004 Awards.doc
Date: 19 Jul 2004, 0:29
Size: 22016 bytes.
Type: Unknown

931. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-19 23:39:55 UTC
From: Don Pfister
Topic: 925 Message: 931

paul.verhage@... wrote:

> I have the write up on the awards for GPSL. I am missing information. Please look
> over the attachment and give me the missing info.
>
> Thanaks,
> Paul

Too bad there wasn't one for longest flight (time), closed to launch site, or well enough whinning. ;-)

HABITAT SkyLab's new domain and web site is: http://habitatskylab.org please update links on your pages. ;-)

Paul, since I saw these seemed to be blank in your Word Doc, I thought you may have been asking.

THANKS! (Big Thanks)

73
Don KA0JLF

932. Re: [GPSL] Cheap balloons?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 03:40:20 UTC
From: Mike Manes
Topic: 922 Message: 932

Hi Gene,

There's a reason they're so cheap: latex deteriorates over time, as some of us in the balloonacy community have learned. These bargain bin bags lose their economic attractiveness when they burst at fill, dumping $50-100 of helium ... Kinda like putting recycled motor oil in your new Lexus crankcase ...

They're fine if you're filling 'em with homebrewed hydrogen and don't care much about burst altitude.

73 de Mike W5VSI

> Gene Harlan wrote:
>
> Cheap is not always the best, but for your information. I just
> discovered this site.
>
>
> http://www.sciplus.com/sale.cfm
>
> Weather Balloon!
> The weather balloon is a perennial favorite at A.S.&S. This one, of
> tan?colored latex, is rated at 10 feet dia but we?d stop at 8 feet to
> be on the safe side. It?s available with a 1?1/2? x 3?1/2? dia O?ring
> and heavy 1?3/4? dia nozzle, or with a standard reinforced 2?3/4?
> neck. (Both have a dusting of talc as a preservative.) Great fun, but
> remember ?? this is, indeed, a meteorological balloon. It?s not made
> to bump into anything sharper than a cloud. Hit concrete, roof
> shingles or a patch of crabgrass with it when it?s inflated, and that
> balloon is history!
>
> They are selling for $7.95.
>
> It is under the sale items. No connection with this company and only
> discovered it as it was recommended by an ATV'er that I met at a
> hamfest a couple of weeks ago.
>
> Gene Harlan - WB9MMM
> NEW - Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> ATVQ@...
> 815-398-2683 - voice
> 815-398-2688 - fax
> http://www.hampubs.com
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

933. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 04:06:17 UTC
From: Mike Manes
Topic: 925 Message: 933

Hi Paul,

Give Rick Von Glahn N0KKZ the credit for the EOSS-80 prediction.

And here's our max GPS altitude:

*** 1030 CDST: Burst at 88,999.3 ft MSL; avg ascent 1029 fpm ***
$GPGGA,152954,3811.9076,N,09732.9173,W,1,05,1.03,27127.0,M,-26.9,M,,*48

The URL for the EOSS web site is: www.eoss.org

73 de Mike W5VSI
Prez EOSS

paul.verhage@... wrote:
>
> I have the write up on the awards for GPSL. I am missing information. Please look
> over the attachment and give me the missing info.
>
> Thanaks,
> Paul
>
>
>
> Yahoo! Groups Links
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> ---- File information -----------
> File: GPSL 2004 Awards.doc
> Date: 19 Jul 2004, 0:29
> Size: 22016 bytes.
> Type: Unknown
>
> --
> Name: GPSL 2004 Awards.doc
> GPSL 2004 Awards.doc Type: Download File (application/msword)

> Encoding: BASE64

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

934. SuperLaunch website

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 04:51:11 UTC
From: wb8elk@aol.com
Topic: 934 Message: 934

OK...

I liked the Superlaunch website idea so I obtained one for use for GPSL.
Here are a few domains that I have that can be pointed anywhere for GPSL
and Superlaunch activities....I currently have them all pointed to my test BBS
balloon launch announcement site.

http://www.superlaunch.org

http://www.gpsl.info

http://www.gpsl.biz

http://www.hamradioballoons.com

http://www.hamballoons.com

http://www.balloonatics.org

73s de Bill WB8ELK

935. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 13:02:47 UTC
From: Ralph Wallio, W0RPK
Topic: 925 Message: 935

Corrected for this typo my calculation of Zack's prediction error yields
5.27 miles. This is significantly better than our collective average of
~8.2 miles. If submitted for placement Zack's prediction error would place
15th-of-68.

-w0rpk

----- Original Message -----
From: "Zack Clobes" <zclobes@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, July 19, 2004 6:28 PM
Subject: Re: [GPSL] GPSL 2004 Awards

There's a typo on my touchdown point. It should be 97W for the touchdown.
That works out to be less than 6 miles.

Also, my burst altitude was 94,467ft (28,794m).

Zack Clobes, W0ZC
Project: Traveler

936. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 17:21:15 UTC
From: Zack Clobes
Topic: 925 Message: 936

Considered it submitted - do you need anything else from me on that?

I still have your email regarding the GPS-18 and the other rates. The
GPS is sitting beside me, I just need to make up an adapter cable to
query it from the PC.

Zack

Ralph Wallio, W0RPK wrote:

>Corrected for this typo my calculation of Zack's prediction error yields
>5.27 miles. This is significantly better than our collective average of
>~8.2 miles. If submitted for placement Zack's prediction error would place
>15th-of-68.
>
>-w0rpk
>
>
>----- Original Message -----
>From: "Zack Clobes" <zclobes@...>
>To: <GPSL@yahoogroups.com>
>Sent: Monday, July 19, 2004 6:28 PM
>Subject: Re: [GPSL] GPSL 2004 Awards
>
>
>There's a typo on my touchdown point. It should be 97W for the touchdown.
>That works out to be less than 6 miles.
>
>Also, my burst altitude was 94,467ft (28,794m).
>
>
>Zack Clobes, W0ZC
>Project: Traveler
>
>
>
>
>
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>
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>Yahoo! Groups Links
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937. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 22:19:25 UTC
From: paul.verhage@boiseschools.org
Topic: 925 Message: 937

Thanks for the improved measurements. I'll check out this webpage when I get back, it would have saved me a lot of trouble.

Paul

> I use a DIY EXCEL spreadsheet with Geometry Functions add-in (see
> http://nmml.afsc.noaa.gov/Software/ExcelGeoFunctions/excelgeofunc.htm) to
> calculate distances between sets of coordinates for our records. This
> method yields the following distances:
>
> KC5TRB 15.13 miles
> W0ZC 51.27 miles
> W5VSI 11.44 miles
> N9XTN 14.11 miles
>
> All of these prediction errors exceed our collective records average of ~8.2
> miles.
>
> -w0rpk
>
>
> ----- Original Message -----
> From: <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Monday, July 19, 2004 1:25 PM
> Subject: [GPSL] GPSL 2004 Awards
>
>
> I have the write up on the awards for GPSL. I am missing information.
> Please look
> over the attachment and give me the missing info.
>
> Thanaks,
> Paul
>
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> Yahoo! Groups Links
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938. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 22:23:23 UTC
From: paul.verhage@boiseschools.org
Topic: 925 Message: 938

Thanks. I assumed there was an error, but didn't want to change anything until I asked.

Since the awards are the same, I'll award first and second place.

Paul

> There's a typo on my touchdown point. It should be 97W for the touchdown. That works out
to
> be less than 6 miles.
>
> Also, my burst altitude was 94,467ft (28,794m).
>
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> paul.verhage@... wrote:
> I have the write up on the awards for GPSL. I am missing information. Please look
> over the attachment and give me the missing info.
>
> Thanaks,
> Paul
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> Yahoo! Groups Links
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>
> The following section of this message contains a file attachment
> prepared for transmission using the Internet MIME message format.
> If you are using Pegasus Mail, or any another MIME-compliant system,
> you should be able to save it or view it from within your mailer.
> If you cannot, please ask your system administrator for assistance.
>
> ---- File information -----------
> File: GPSL 2004 Awards.doc
> Date: 19 Jul 2004, 0:29
> Size: 22016 bytes.

> Type: Unknown
>
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>
> Yahoo! Groups Links
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

939. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 22:29:16 UTC
From: paul.verhage@boiseschools.org
Topic: 925 Message: 939

Glad to have to updated error of prediction.

Okay, Zack has both awards. So I will give the second award to second place, which would be EOSS.

I'll rewrite what I have and submit it again for final corrections.

I have a presentation to give at AstroCon 2005 on Friday. I should be able to email the correction at my sister's house.

Paul

> Corrected for this typo my calculation of Zack's prediction error yields
> 5.27 miles. This is significantly better than our collective average of
> ~8.2 miles. If submitted for placement Zack's prediction error would place
> 15th-of-68.
>
> -w0rpk
>
>
> ----- Original Message -----
> From: "Zack Clobes" <zclobes@...>
> To: <GPSL@yahoogroups.com>
> Sent: Monday, July 19, 2004 6:28 PM
> Subject: Re: [GPSL] GPSL 2004 Awards
>
>
> There's a typo on my touchdown point. It should be 97W for the touchdown.
> That works out to be less than 6 miles.
>
> Also, my burst altitude was 94,467ft (28,794m).
>
>
> Zack Clobes, W0ZC
> Project: Traveler
>
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> Yahoo! Groups Links
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940. RE: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-20 23:53:17 UTC
From: Rick von Glahn
Topic: 925 Message: 940

The highest packet received by EOSS was:

W5VSI-11>APRS:$GPGGA,152954,3811.9076,N,09732.9173,W,1,05,1.03,27127.0,M,-26.9
,M,,*48

The altitude is 88,999.34 feet.

This record is contained in the data file available from:

http://www.eoss.org/ansrecap/ar_100/recap80.htm

73 -- Rick, NØKKZ

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----------------------------
| NEW EMAIL ADDRESS IS |
| rick@fastmail.us |
| Take note |
----------------------------
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> -----Original Message-----
> From: paul.verhage@...
> [mailto:paul.verhage@...]
> Sent: Monday, July 19, 2004 11:25 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] GPSL 2004 Awards
>
> I have the write up on the awards for GPSL. I am missing
> information. Please look over the attachment and give me the
> missing info.
>
> Thanaks,
> Paul
>
>
> ------------------------ Yahoo! Groups Sponsor
> ----------------------~--> Make a clean sweep of pop-up ads.
> Yahoo! Companion Toolbar.
> Now with Pop-Up Blocker. Get it for free!
> http://us.click.yahoo.com/L5YrjA/eSIIAA/yQLSAA/ELTolB/TM
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> -------~->
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941. Re: [GPSL] GPSL 2004 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 04:15:47 UTC
From: Mike Manes
Topic: 925 Message: 941

Thanks, Paul,

And congratulations to Zack, our GPSL 2004 host, for his fine
achievement, not to mention a great GSPL!

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Glad to have to updated error of prediction.
>
> Okay, Zack has both awards. So I will give the second award to second place, which would
> be EOSS.
>
> I'll rewrite what I have and submit it again for final corrections.
>
> I have a presentation to give at AstroCon 2005 on Friday. I should be able to email the
> correction at my sister's house.
>
> Paul
>
> > Corrected for this typo my calculation of Zack's prediction error yields
> > 5.27 miles. This is significantly better than our collective average of
> > ~8.2 miles. If submitted for placement Zack's prediction error would place
> > 15th-of-68.
> >
> > -w0rpk
> >
> >
> > ----- Original Message -----
> > From: "Zack Clobes" <zclobes@...>
> > To: <GPSL@yahoogroups.com>
> > Sent: Monday, July 19, 2004 6:28 PM
> > Subject: Re: [GPSL] GPSL 2004 Awards
> >
> >
> > There's a typo on my touchdown point. It should be 97W for the touchdown.
> > That works out to be less than 6 miles.
> >
> > Also, my burst altitude was 94,467ft (28,794m).
> >
> >
> > Zack Clobes, W0ZC
> > Project: Traveler
> >
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

942. Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 06:03:03 UTC
From: pverhage1960
Topic: 942 Message: 942

Here's the updated GPSL Awards report. Please look it over and identify any remaining errors.

I couldn't add an attachment, so I have copied and pasted the text

Thanks,
Paul

++
GPSL 2004 Awards

Due to the generous support of both Nuts and Volts magazine and Parallax, the Great Plains Super Launch (GPSL) 2004 was able to hold two competitions. Amateur near space teams vied for the most accurate landing prediction and the highest altitude achieved. Winners of both competitions would receive a one year subscription to Nuts and Volts magazine and a Parallax Basic Stamp 2-IC.

Landing predictions were made prior to launch of the near spacecraft and compared to the final landing site as recorded by a handheld GPS receiver. Altitude data transmitted during the flight over APRS was used to document the highest altitude reached by the near spacecraft. Below are the results from the GPSL 2004 competition.

Harry Mueller (KC5TRB) of Oklahoma Research Balloons
Predicted Landing: 37.8939 N 97.2052 W
Recorded Landing: 38.1008 N 97.2960 W
Prediction Error: 0.2069 N 0.0908 W =
15.13 miles
Highest Altitude: 82,944 feet

Zack Clobes (W0WR) of Project: Traveler
Predicted Landing: 37.9696 N 97.2434 W
Recorded Landing: 38.0285 N 97.3048 W
Prediction Error: 0.0589 N 0.1014 W =
5.27 miles
Highest Altitude: 94,467 feet

Rick Von Glahn (N0KKZ) of Edge of Space Sciences
Predicted Landing: 37.9111 N 97.1770 W
Recorded Landing: 38.0486 N 97. 2941 W
Prediction Error: 0.1375 N 0.1171 W =
11.44 miles
Highest Altitude: 88,027 feet

Mark Conner (N9XTN) of Nebraska Stratospheric Amateur Radio
Predicted Landing: 37.9683 N 97.2107 W

Recorded Landing: 37.9070 N 96.9637 W
Prediction Error: 0.0613 N 0.2470 W =
14.11 miles
Highest Altitude: 84,875 feet

Congratulations to Zack Clobes for finishing in first place and Rick Von Glahn for finishing in second place at GPSL 2004.

You can read more about the participants of GPSL 2004 at their websites
EOSS: http://www.eoss.org
HABITAT: http://habtiatskylab.org
NSTAR: http://www.nstar.org
ORB http://members.cox.net/hhm_74775/orb/
Project: Traveler http://www.rckara.org/project_traveler/

GPSL 2005 will be hosted over the Fourth of July weekend by NSTAR. All amateur near space groups and other interested individuals are invited to participate. A formal announcement will be made at a later time. In the mean time, please subscribe to the GPSL email list under Yahoo Groups for information on this, and other, amateur near space events.

943. Re: [GPSL] Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 11:11:30 UTC
From: Ralph Wallio, W0RPK
Topic: 942 Message: 943

A few changes to consider:

1) Zack's call is W0ZC. W0WR is the RCKARA club call.

2) It is my impression that a discussion continues about when GPSL-2005 will be held. It may not be on/near July 4th.

3) I suggest again that "Amateur Radio" be part of all names for our hobby. I am also concerned that "Near Space" is also being achieved by amateur rocketry. We are balloonists so "balloon" should be part of all names for our hobby. "Amateur Radio High Altitude Ballooning" or "Amateur Radio Near Space Ballooning" would therefore be more appropriate.

4) Prediction errors in latitude and longitude seem redundant. Errors are great circle distances between two sets of lat/long coordinates as calculated by longstanding navigation methods, aka, spherical trig.

-w0rpk

----- Original Message -----
From: "pverhage1960" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, July 22, 2004 1:03 AM
Subject: [GPSL] Fixed Awards Report

Here's the updated GPSL Awards report. Please look it over and identify any remaining errors.

I couldn't add an attachment, so I have copied and pasted the text

Thanks,
Paul

++
GPSL 2004 Awards

Due to the generous support of both Nuts and Volts magazine and Parallax, the Great Plains Super Launch (GPSL) 2004 was able to hold two competitions. Amateur near space teams vied for the most accurate landing prediction and the highest altitude achieved. Winners of both competitions would receive a one year subscription to Nuts and Volts magazine and a Parallax Basic Stamp 2-IC.

Landing predictions were made prior to launch of the near spacecraft and compared to the final landing site as recorded by a handheld GPS receiver. Altitude data transmitted during the flight over APRS was used to document the highest altitude reached by the near spacecraft. Below are the results from the GPSL 2004 competition.

Harry Mueller (KC5TRB) of Oklahoma Research Balloons
Predicted Landing: 37.8939 N 97.2052 W
Recorded Landing: 38.1008 N 97.2960 W
Prediction Error: 0.2069 N 0.0908 W =
15.13 miles
Highest Altitude: 82,944 feet

Zack Clobes (W0WR) of Project: Traveler
Predicted Landing: 37.9696 N 97.2434 W
Recorded Landing: 38.0285 N 97.3048 W
Prediction Error: 0.0589 N 0.1014 W =
5.27 miles
Highest Altitude: 94,467 feet

Rick Von Glahn (N0KKZ) of Edge of Space Sciences
Predicted Landing: 37.9111 N 97.1770 W
Recorded Landing: 38.0486 N 97. 2941 W
Prediction Error: 0.1375 N 0.1171 W =
11.44 miles
Highest Altitude: 88,027 feet

Mark Conner (N9XTN) of Nebraska Stratospheric Amateur Radio
Predicted Landing: 37.9683 N 97.2107 W
Recorded Landing: 37.9070 N 96.9637 W
Prediction Error: 0.0613 N 0.2470 W =
14.11 miles
Highest Altitude: 84,875 feet

Congratulations to Zack Clobes for finishing in first place and Rick Von Glahn for finishing in second place at GPSL 2004.

You can read more about the participants of GPSL 2004 at their websites
EOSS: http://www.eoss.org
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GPSL 2005 will be hosted over the Fourth of July weekend by NSTAR. All amateur near space groups and other interested individuals are invited to participate. A formal announcement will be made at a later time. In the mean time, please subscribe to the GPSL email list under Yahoo Groups for information on this, and other, amateur near space events.

944. GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 14:17:36 UTC
From: n9xtn@cox.net
Topic: 944 Message: 944

I have received only one input regarding dates for GPSL 2005, and that was to have it sometime other than 4th of July weekend. I know, however, others would like to take advantage of a holiday weekend so as not to burn as many vacation days. For those groups who may attend next year, please post your thoughts on possible dates:

1) 4th of July weekend, as usual
2) Memorial Day weekend
3) Others? Mid-June is probably out due to the BalloonSat conference, and Field Day weekend is no good either. Mid-July will be the teachers' workshop at UNO and NSTAR will have a BalloonSat launch with that, but perhaps we could have the GPSL in association with that launch.

My wife and I were considering having some alternate activities for Friday while the balloon conference was going on. This would be for spouses and children who aren't particularly interested in balloonacy. The Omaha Zoo and Children's Museum are possibilities. This might make it worthwhile to bring families to Omaha next year for a mini-vacation.

Since Paul probably needs to get the awards report out, I would leave the GPSL 2005 date information in that as a generic "summer 2005" statement.

73 de Mark N9XTN

> 2) It is my impression that a discussion continues about when GPSL-
> 2005 will be held. It may not be on/near July 4th.
>

945. Re: GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 15:49:25 UTC
From: pverhage1960
Topic: 944 Message: 945

Memorial Day and Labor Day won't do it for me. As A teacher, I don't get many days of vacation during the school year. I still like the 4th of July, but am flexible.

I'll need to know the day dy December. I have to begin making reservations early in the year for my back packing trips.

Paul

946. Re: Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 15:56:41 UTC
From: pverhage1960
Topic: 942 Message: 946

--- In GPSL@yahoogroups.com, "Ralph Wallio, W0RPK" <wallio@c...>
wrote:
> A few changes to consider:

I made the changes Ralph suggested and I used the term, amateur radio
near space balloon.

Paul

947. RE: [GPSL] Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 18:24:39 UTC
From: Rick von Glahn
Topic: 942 Message: 947

I'm thinking I sent in that altitude report but ... I was wrong.

The actual max altitude was 88,999.34 ft.

It doesn't make a significant change regarding awards etc. however, that is
the correct figure.

Sorry about that!

Rick Von Glahn (N0KKZ) of Edge of Space Sciences
Predicted Landing: 37.9111 N 97.1770 W
Recorded Landing: 38.0486 N 97. 2941 W
Prediction Error: 0.1375 N 0.1171 W =
11.44 miles
Highest Altitude: 88,027 feet

73 -- Rick, NØKKZ

| NEW EMAIL ADDRESS IS |
| rick@... |
| Take note |

> -----Original Message-----
> From: pverhage1960 [mailto:paul.verhage@...]
> Sent: Wednesday, July 21, 2004 11:03 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Fixed Awards Report
>
> Here's the updated GPSL Awards report. Please look it over
> and identify any remaining errors.
>
> I couldn't add an attachment, so I have copied and pasted the text
>
> Thanks,
> Paul
>
> ++
> GPSL 2004 Awards
>
> Due to the generous support of both Nuts and Volts magazine
> and Parallax, the Great Plains Super Launch (GPSL) 2004 was
> able to hold two competitions. Amateur near space teams vied
> for the most accurate landing prediction and the highest
> altitude achieved.
> Winners of both competitions would receive a one year

> subscription to Nuts and Volts magazine and a Parallax Basic
> Stamp 2-IC.
>
> Landing predictions were made prior to launch of the near
> spacecraft and compared to the final landing site as recorded
> by a handheld GPS receiver. Altitude data transmitted during
> the flight over APRS was used to document the highest
> altitude reached by the near spacecraft. Below are the
> results from the GPSL 2004 competition.
>
> Harry Mueller (KC5TRB) of Oklahoma Research Balloons
> Predicted Landing: 37.8939 N 97.2052 W
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> Prediction Error: 0.0589 N 0.1014 W =
> 5.27 miles
> Highest Altitude: 94,467 feet
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> Rick Von Glahn (N0KKZ) of Edge of Space Sciences
> Predicted Landing: 37.9111 N 97.1770 W
> Recorded Landing: 38.0486 N 97. 2941 W
> Prediction Error: 0.1375 N 0.1171 W =
> 11.44 miles
> Highest Altitude: 88,027 feet
>
> Mark Conner (N9XTN) of Nebraska Stratospheric Amateur Radio
> Predicted Landing: 37.9683 N 97.2107 W
> Recorded Landing: 37.9070 N 96.9637 W
> Prediction Error: 0.0613 N 0.2470 W =
> 14.11 miles
> Highest Altitude: 84,875 feet
>
> Congratulations to Zack Clobes for finishing in first place
> and Rick Von Glahn for finishing in second place at GPSL 2004.
>
> You can read more about the participants of GPSL 2004 at
> their websites
> EOSS: http://www.eoss.org
> HABITAT: http://habtiatskylab.org
> NSTAR: http://www.nstar.org
> ORB http://members.cox.net/hhm_74775/orb/
> Project: Traveler http://www.rckara.org/project_traveler/
>
> GPSL 2005 will be hosted over the Fourth of July weekend by NSTAR.

> All amateur near space groups and other interested
> individuals are invited to participate. A formal
> announcement will be made at a later time. In the mean time,
> please subscribe to the GPSL email list under Yahoo Groups
> for information on this, and other, amateur near space events.
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948. Re: [GPSL] GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 19:38:20 UTC
From: Ralph Wallio, W0RPK
Topic: 944 Message: 948

Usual suspects could consider the following calendar and make wild guesses about which weekends are already taken for their groups. As examples, I find the following flights in 2004 that may be repeated in 2005:

ANSR Williams Hamfest 03Jul04

EOSS CU/BalloonSat Conference 19Jun04
EOSS CU/Upward Bound 18Jul04
EOSS CU/Spacegrant heavies 07Aug04

Groups that anticipate attending GPSL-2005 could look ahead and make guesses. We could then consider which weekend will be reasonable for the majority of potential attendees.

Paul's school year limits him to June, July and August.

There is no significant difference in Mean Zonal Winds between June, July and August. There may be a significant difference in the probability of inclement weather.

June 3-5 Possibly too soon in June (1st weekend after Memorial Day)
June 10-12 ARRL June VHF QSO Party
June 17-19 EOSS - CU BalloonSat Conference? (June 17-19 in 2004)
June 24-26 ARRL Field Day

July 1-3 Long weekend - July 4th on Monday ANSR Williams Hamfest (July 3 in 2004)
July 8-10
July 15-17 EOSS - CU Upward Bound? (July 18 in 2004)
July 22-24 NSTAR - UNO Aerospace Education Workshop? (June 24 in 2004)
July 29-31

August 5-7
August 12-14
August 19-21
August 26-28 Possibly too late in August (last weekend before Labor Day)

Please respond by the end of this coming weekend so Mark can make a decision and announcement. I will compile the results.

Would UNO be a good venue for our gathering. Would they cooperate by supplying low cost (read, "free") meeting space and support?

-w0rpk

----- Original Message -----
From: <n9xtn@...>
To: <GPSL@yahoogroups.com>

Sent: Thursday, July 22, 2004 9:17 AM
Subject: [GPSL] GPSL 2005 date discussion

I have received only one input regarding dates for GPSL 2005, and that was to have it sometime other than 4th of July weekend. I know, however, others would like to take advantage of a holiday weekend so as not to burn as many vacation days. For those groups who may attend next year, please post your thoughts on possible dates:

1) 4th of July weekend, as usual
2) Memorial Day weekend
3) Others? Mid-June is probably out due to the BalloonSat conference, and Field Day weekend is no good either. Mid-July will be the teachers' workshop at UNO and NSTAR will have a BalloonSat launch with that, but perhaps we could have the GPSL in association with that launch.

My wife and I were considering having some alternate activities for Friday while the balloon conference was going on. This would be for spouses and children who aren't particularly interested in balloonacy. The Omaha Zoo and Children's Museum are possibilities. This might make it worthwhile to bring families to Omaha next year for a mini-vacation.

Since Paul probably needs to get the awards report out, I would leave the GPSL 2005 date information in that as a generic "summer 2005" statement.

73 de Mark N9XTN

949. Re: [GPSL] GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 20:36:33 UTC
From: Harry M
Topic: 944 Message: 949

The following would be good for ORB...

July 29-31
August 5-7
August 12-14
August 19-21

For the Oklahoma area the following dates are not good...
July 15-16 CORA Ham Holiday (Oklahoma City)

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
---

950. Re: GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-22 23:33:35 UTC
From: pverhage1960
Topic: 944 Message: 950

I'm free any week during school summer.

I just need to know a few months in advance.

Paul

951. Re: [GPSL] GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 02:05:37 UTC
From: Don Pfister
Topic: 944 Message: 951

I like the July 4th weekend.

Don

n9xtn@... wrote:

> I have received only one input regarding dates for GPSL 2005, and that was to have it sometime other than 4th of July weekend. I know, however, others would like to take advantage of a holiday weekend so as not to burn as many vacation days. For those groups who may attend next year, please post your thoughts on possible dates:
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> 1) 4th of July weekend, as usual
> 2) Memorial Day weekend
> 3) Others? Mid-June is probably out due to the BalloonSat conference, and Field Day weekend is no good either. Mid-July will be the teachers' workshop at UNO and NSTAR will have a BalloonSat launch with that, but perhaps we could have the GPSL in association with that launch.
>
> My wife and I were considering having some alternate activities for Friday while the balloon conference was going on. This would be for spouses and children who aren't particularly interested in balloonacy. The Omaha Zoo and Children's Museum are possibilities. This might make it worthwhile to bring families to Omaha next year for a mini-vacation.
>
> Since Paul probably needs to get the awards report out, I would leave the GPSL 2005 date information in that as a generic "summer 2005" statement.
>
> 73 de Mark N9XTN
>
> > 2) It is my impression that a discussion continues about when GPSL-
> > 2005 will be held. It may not be on/near July 4th.
> >

952. Re: [GPSL] Re: Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 02:07:04 UTC
From: Don Pfister
Topic: 942 Message: 952

Personally, I don't like "Amateur Radio" ballooning, I think it is too restrictive.I much prefer "Amateur Ballooning" whatever.

Don

pverhage1960 wrote:

> --- In GPSL@yahoogroups.com, "Ralph Wallio, W0RPK" <wallio@c...>
> wrote:
> > A few changes to consider:
>
> I made the changes Ralph suggested and I used the term, amateur radio
> near space balloon.
>
> Paul
>

953. Re: [GPSL] Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 02:22:50 UTC
From: Don Pfister
Topic: 942 Message: 953

> 3) I suggest again that "Amateur Radio" be part of all names for our hobby.
> I am also concerned that "Near Space" is also being achieved by amateur
> rocketry. We are balloonists so "balloon" should be part of all names for
> our hobby. "Amateur Radio High Altitude Ballooning" or "Amateur Radio Near
> Space Ballooning" would therefore be more appropriate.

I don't think the hobby would die without Amateur Radio. I think there might well be many more non-hams that would be interested in the hobby. This seems to me to be a statement "only Hams allowed". I don't think that is a message we want to send. Personally, most of the people that have helped me over the years have been non-hams!

Aren't the majority of the very students and young people we are reaching out to non-hams?

Paul, I would suggest, while many of your readers are hams, aren't there also non-hams? I think Amateur Ballooning gives us more opportunities to include others. Probably a benefit to getting companies like Parallax and Nut&Volts to sponsor us, not to mention others. But then again, people complain because we write for magazines.

I do not understand the drive to put "Amateur Radio" on everything?

OH well. FWIW,
Don

954. Re: [GPSL] GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 01:59:23 UTC
From: Mike Manes
Topic: 944 Message: 954

Hi Guys,

EOSS sets its flight docket in cooperation with Colo Space Grant to avoid conflicts with known alternate events, such as Field Day, ham fests, MS-150, JOTA, etc. Otherwise it's first come, first served.

So the sooner GPSL 2005 gets nailed to a date, the better chance it has to avoid getting stepped on by a Space Grant flight. I expect to be working the 2005 schedule with Chris Koehler in the next couple of months.

73 de Mike W5VSI, EOSS

"Ralph Wallio, W0RPK" wrote:
>
> Usual suspects could consider the following calendar and make wild guesses
> about which weekends are already taken for their groups. As examples, I
> find the following flights in 2004 that may be repeated in 2005:
>
> ANSR Williams Hamfest 03Jul04
>
> EOSS CU/BalloonSat Conference 19Jun04
> EOSS CU/Upward Bound 18Jul04
> EOSS CU/Spacegrant heavies 07Aug04
>
> Groups that anticipate attending GPSL-2005 could look ahead and make
> guesses. We could then consider which weekend will be reasonable for the
> majority of potential attendees.
>
> Paul's school year limits him to June, July and August.
>
> There is no significant difference in Mean Zonal Winds between June, July
> and August. There may be a significant difference in the probability of
> inclement weather.
>
> June 3-5 Possibly too soon in June (1st weekend after Memorial Day)
> June 10-12 ARRL June VHF QSO Party
> June 17-19 EOSS - CU BalloonSat Conference? (June 17-19 in 2004)
> June 24-26 ARRL Field Day
>
> July 1-3 Long weekend - July 4th on Monday ANSR Williams Hamfest (July 3
> in 2004)
> July 8-10
> July 15-17 EOSS - CU Upward Bound? (July 18 in 2004)
> July 22-24 NSTAR - UNO Aerospace Education Workshop? (June 24 in 2004)
> July 29-31

>
> August 5-7
> August 12-14
> August 19-21
> August 26-28 Possibly too late in August (last weekend before Labor Day)
>
> Please respond by the end of this coming weekend so Mark can make a decision
> and announcement. I will compile the results.
>
> Would UNO be a good venue for our gathering. Would they cooperate by
> supplying low cost (read, "free") meeting space and support?
>
> -w0rpk
>
> ----- Original Message -----
> From: <n9xtn@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, July 22, 2004 9:17 AM
> Subject: [GPSL] GPSL 2005 date discussion
>
> I have received only one input regarding dates for GPSL 2005, and that was
> to have it sometime other than 4th of July weekend. I know, however, others
> would like to take advantage of a holiday weekend so as not to burn as many
> vacation days. For those groups who may attend next year, please post your
> thoughts on possible dates:
>
> 1) 4th of July weekend, as usual
> 2) Memorial Day weekend
> 3) Others? Mid-June is probably out due to the BalloonSat conference, and
> Field Day weekend is no good either. Mid-July will be the teachers'
> workshop at UNO and NSTAR will have a BalloonSat launch with that, but
> perhaps we could have the GPSL in association with that launch.
>
> My wife and I were considering having some alternate activities for Friday
> while the balloon conference was going on. This would be for spouses and
> children who aren't particularly interested in balloonacy. The Omaha Zoo
> and Children's Museum are possibilities. This might make it worthwhile to
> bring families to Omaha next year for a mini-vacation.
>
> Since Paul probably needs to get the awards report out, I would leave the
> GPSL 2005 date information in that as a generic "summer 2005" statement.
>
> 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
>
>
>

>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

955. Re: [GPSL] Fixed Awards Report

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 02:23:10 UTC
From: Mike Manes
Topic: 942 Message: 955

I heartily concur. And pls include Rick's revised apogee data.
73 de Mike W5VSI, EOSS

"Ralph Wallio, W0RPK" wrote:
>
> A few changes to consider:
>
> 1) Zack's call is W0ZC. W0WR is the RCKARA club call.
>
> 2) It is my impression that a discussion continues about when GPSL-2005 will
> be held. It may not be on/near July 4th.
>
> 3) I suggest again that "Amateur Radio" be part of all names for our hobby.
> I am also concerned that "Near Space" is also being achieved by amateur
> rocketry. We are balloonists so "balloon" should be part of all names for
> our hobby. "Amateur Radio High Altitude Ballooning" or "Amateur Radio Near
> Space Ballooning" would therefore be more appropriate.
>
> 4) Prediction errors in latitude and longitude seem redundant. Errors are
> great circle distances between two sets of lat/long coordinates as
> calculated by longstanding navigation methods, aka, spherical trig.
>
> -w0rpk
>
> ----- Original Message -----
> From: "pverhage1960" <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, July 22, 2004 1:03 AM
> Subject: [GPSL] Fixed Awards Report
>
> Here's the updated GPSL Awards report. Please look it over and
> identify any remaining errors.
>
> I couldn't add an attachment, so I have copied and pasted the text
>
> Thanks,
> Paul
>
> ++
> GPSL 2004 Awards
>
> Due to the generous support of both Nuts and Volts magazine and
> Parallax, the Great Plains Super Launch (GPSL) 2004 was able to hold
> two competitions. Amateur near space teams vied for the most
> accurate landing prediction and the highest altitude achieved.

> Winners of both competitions would receive a one year subscription to
> Nuts and Volts magazine and a Parallax Basic Stamp 2-IC.
>
> Landing predictions were made prior to launch of the near spacecraft
> and compared to the final landing site as recorded by a handheld GPS
> receiver. Altitude data transmitted during the flight over APRS was
> used to document the highest altitude reached by the near
> spacecraft. Below are the results from the GPSL 2004 competition.
>
> Harry Mueller (KC5TRB) of Oklahoma Research Balloons
> Predicted Landing: 37.8939 N 97.2052 W
> Recorded Landing: 38.1008 N 97.2960 W
> Prediction Error: 0.2069 N 0.0908 W =
> 15.13 miles
> Highest Altitude: 82,944 feet
>
> Zack Clobes (W0WR) of Project: Traveler
> Predicted Landing: 37.9696 N 97.2434 W
> Recorded Landing: 38.0285 N 97.3048 W
> Prediction Error: 0.0589 N 0.1014 W =
> 5.27 miles
> Highest Altitude: 94,467 feet
>
> Rick Von Glahn (N0KKZ) of Edge of Space Sciences
> Predicted Landing: 37.9111 N 97.1770 W
> Recorded Landing: 38.0486 N 97. 2941 W
> Prediction Error: 0.1375 N 0.1171 W =
> 11.44 miles
> Highest Altitude: 88,027 feet
>
> Mark Conner (N9XTN) of Nebraska Stratospheric Amateur Radio
> Predicted Landing: 37.9683 N 97.2107 W
> Recorded Landing: 37.9070 N 96.9637 W
> Prediction Error: 0.0613 N 0.2470 W =
> 14.11 miles
> Highest Altitude: 84,875 feet
>
> Congratulations to Zack Clobes for finishing in first place and Rick
> Von Glahn for finishing in second place at GPSL 2004.
>
> You can read more about the participants of GPSL 2004 at their
> websites
> EOSS: http://www.eoss.org
> HABITAT: http://habtiatskylab.org
> NSTAR: http://www.nstar.org
> ORB http://members.cox.net/hhm_74775/orb/
> Project: Traveler http://www.rckara.org/project_traveler/
>
> GPSL 2005 will be hosted over the Fourth of July weekend by NSTAR.
> All amateur near space groups and other interested individuals are

> invited to participate. A formal announcement will be made at a
> later time. In the mean time, please subscribe to the GPSL email
> list under Yahoo Groups for information on this, and other, amateur
> near space events.
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

956. Re: [GPSL] GPSL 2005 date discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 03:54:15 UTC
From: wb8elk@aol.com
Topic: 944 Message: 956

I prefer the July 4th weekend since it is usually a fun time to watch the fireworks from 30,000 feet during my plane trip...I witnessed thousands of displays on my way back, but here are my ideas on alternative dates:

I think a likely and appropriate alternative might be to coincide with the UNO workshop. I prefer July since the chances for good weather and calm morning surface winds seem to make that a good choice. June seems too early for me (need a month to recover from Dayton and Field Day)....early August is another possibility, but as you go further into August, those with children have the school year starting.

- Bill WB8ELK

957. World Year of Physics 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 14:09:40 UTC
From: Ralph Wallio, W0RPK
Topic: 957 Message: 957

Perhaps we can tie Amateur Radio Near Space Ballooning to the World Year of Physics 2005. See http://www.physics2005.org/ and note purposes, events and sponsors.

World Year of Physics 2005: Einstein in the 21st Century

The International Union of Pure and Applied Physics declared 2005 as the World Year of Physics, which coincides with the 100th anniversary of the year in which Einstein published three very influential physics papers. The United States physics community created this website to promote "plans to bring the excitement of physics to the public and inspire a new generation of scientists." Educators and students can find out about the schedule of events as well as ideas on how to become involved. The also site features a timeline of Einstein's life and achievements. To receive news and updates on events, users can sign up for the free World Year of Physics newsletter. While many of the media links are currently being constructed, users can find a downloadable poster and logo.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Amateur Radio - The Ultimate Nerdvana
Hubbert's Peak - The Mother of all Perfect Storms

958. Re: World Year of Physics 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-23 15:37:57 UTC
From: pverhage1960
Topic: 957 Message: 958

--- In GPSL@yahoogroups.com, "Ralph Wallio, W0RPK" <wallio@c...>
wrote:
> Perhaps we can tie Amateur Radio Near Space Ballooning to the World
Year of
> Physics 2005. See http://www.physics2005.org/ and note purposes,
events and
> sponsors.

I like this idea. Collecting cosmic ray data would be a good tie
in. When I get back home, I will look deeper into this. Is anyone
else interested?

Perhaps we could help through the UNO Physics Department.

Paul

959. Re: [GPSL] Digest Number 260

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-24 02:38:48 UTC
From: KC0KXR@aol.com
Topic: 959 Message: 959

Just to dovetail on Don Pfister's comment, I became a ham PRIMARILY because of balloons in 2001, so anything we can do to include/encourage non-hams is a good thing.

==========
73 DE KC0KXR Paul McCrone
NSTAR Member
==========

In a message dated 7/23/2004 10:49:05 AM Central Daylight Time, GPSL@yahoogroups.com writes:

Date: Thu, 22 Jul 2004 21:22:50 -0500
From: Don Pfister <ka0jlf@...>
Subject: Re: Fixed Awards Report

> 3) I suggest again that "Amateur Radio" be part of all names for our hobby.
> I am also concerned that "Near Space" is also being achieved by amateur
> rocketry. We are balloonists so "balloon" should be part of all names for
> our hobby. "Amateur Radio High Altitude Ballooning" or "Amateur Radio Near
> Space Ballooning" would therefore be more appropriate.

I don't think the hobby would die without Amateur Radio. I think there might well be many more non-hams that would be interested in the hobby. This seems to
me to be a statement "only Hams allowed". I don't think that is a message we want to send. Personally, most of the people that have helped me over the years
have been non-hams!

Aren't the majority of the very students and young people we are reaching out to
non-hams?

Paul, I would suggest, while many of your readers are hams, aren't there also non-hams? I think Amateur Ballooning gives us more opportunities to include others. Probably a benefit to getting companies like Parallax and Nut&Volts to
sponsor us, not to mention others. But then again, people complain because we write for magazines.

I do not understand the drive to put "Amateur Radio" on everything?

OH well. FWIW,
Don

960. Addresses

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-26 17:41:06 UTC
From: paul.verhage@boiseschools.org
Topic: 960 Message: 960

Rick and Zack, I need to know what address I need to send your awards to.

Also, please get photos with you and the awards. I need to include those to the donors.

Paul

961. Photos

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-26 17:51:48 UTC
From: paul.verhage@boiseschools.org
Topic: 961 Message: 961

I need photos of the participants holding their copies of Nuts and Volts and the Parallax catalog. I need to send them to the companies in thanks for their donations to GPSL 2004.

Paul

962. Last call for GPSL pictures

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-27 00:04:57 UTC
From: Mark Conner
Topic: 962 Message: 962

If anyone wants to contribute digital pictures to the GPSL 2004 photo CD, please upload them in the next couple of days. To cut down on my mailing costs, I will send several CDs to each of the participating groups for futher distribution. The CD copying and mailing project will hopefully happen later this week or over the weekend.

If you need the address, login, and password for the FTP server to send the pix to, e-mail me offlist.

73 de Mark N9XTN

963. Address for Zack

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-28 20:33:52 UTC
From: paul.verhage@boiseschools.org
Topic: 963 Message: 963

Zack, I need your address to send the awards for the GPSL competition.

Paul

964. Attendee photos (again)

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-28 20:33:03 UTC
From: paul.verhage@boiseschools.org
Topic: 964 Message: 964

Rick, I have lost your email. Can you resend the photos you took of the attendees at GPSL and the magazines?

Thanks,
Paul

965. Re: Habitat payload info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-29 12:20:59 UTC
From: Don Pfister
Topic: 965 Message: 965

WB8ELK@... wrote:

> Hi Don,
>
> I'm going to try to break 500 miles for balloon reception with both your
> flight and also Harry's in Oklahoma this weekend....it turns out both of you
> are almost exactly the same distance from me here in Alabama...533 miles to
> your respective launchsites.

I've been preoccupied, when is Harry's flight? I guess I better check email messages better before the weekend.

> I can't seem to find particulars on the frequencies you plan to use though on
> some of the payloads you're flying...can you send me that information....it
> would be great to make a contact through your crossband repeater from 500
> miles out....also I'll be monitoring ATV (are your horiz or vertically
> polarized on ATV?).

Oh boy, here goes from memory, correct me guys if I mess up. ;-)

Crossband repeater - talk up on 2M 145.56 - listen down on 445.525
ATV - 439.25 verticle
APRS 144.34 gated to findu.com and 144.39
SSTV 147.585

IF the crossband repeater works well early in the flight we may try a test of SSTV through the crossband repeater. That will be announced during the flight. We are trying to schedule the test with some of you distance stations. Would you be willing/able to try a test like that?

We MIGHT also try a test of the IRLP link with the crossband. This is still undecided.

It would be great if we could make contact with you through the balloon! ;-)

> If I find the time to put it all together by Sunday, I may even try to fly
> one of my crossband repeater payloads as well to link up with yours for a DX
> EBBE QSO.
>
> 73s de Bill WB8ELK

I'll get the launch info updated on the http://habitat.netlab.org/launchsite.html page tonight.

Thanks Bill!

73
Don

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

966. Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-30 15:13:00 UTC
From: Ralph Wallio, W0RPK
Topic: 966 Message: 966

Lets see if I can stay current.

http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm

Suggestions, corrections and flames are encouraged.

-w0rpk

967. Re: [GPSL] Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-30 21:34:47 UTC
From: Zack Clobes
Topic: 966 Message: 967

I think you're biting off a pretty good chunk... :-) Good luck.

Ideally, it should be up to the individual groups to update their own schedules. That would save you a lot of headaches..

Zack

Ralph Wallio, W0RPK wrote:

>Lets see if I can stay current.
>
>http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm
>
>Suggestions, corrections and flames are encouraged.
>
>-w0rpk
>
>
>
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>
>
>Yahoo! Groups Links
>
>
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>
>

968. Re: [GPSL] Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-30 22:31:53 UTC
From: Mike Manes
Topic: 966 Message: 968

Hi Ralph,

I assume that this page hopes to compile the launch announcments
from all of the various bealloon groups whose reflectors you are
signed up on?

If so, that sure would be a great service! Even better if had a
more concise URL :={. What would be even better is a SINGLE email
reflector dedicated to balloon launch announcements w/o any other
chit-chat - it'd have to be moderated, or posting permissions limited
to just a select few in each balloon group. Email is more timely,
since I go a-browsing only once in a blue moon.

73 de Mike W5VSI, EOSS

"Ralph Wallio, W0RPK" wrote:
>
> Lets see if I can stay current.
>
> http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm
>
> Suggestions, corrections and flames are encouraged.
>
> -w0rpk
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

969. Re: [GPSL] Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-30 23:20:28 UTC
From: Don Pfister
Topic: 966 Message: 969

We probably shouldn't be listed under "Amateur Radio High Altitude Balloon"
since at least two of our packages will not be "Amateur Radio". ;-)

Don

"Ralph Wallio, W0RPK" wrote:

> Lets see if I can stay current.
>
> http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm
>
> Suggestions, corrections and flames are encouraged.
>
> -w0rpk

--

[Signature File]
Name=Don Pfister KA0JLF

970. Re: [GPSL] Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 06:43:28 UTC
From: wb8elk@aol.com
Topic: 966 Message: 970

Ralph,

The announcement page looks great....I'll point some easy to remember domain names to it (listed below)...For those who want to post a launch announcement on a bulletin board format in addition to emailing Ralph for his page, I also have a link on my pages to do that as well....thanks to Mark N9XTN for trying it out for his last flight.

Also, I agree with Mike about the scattered reflector groups, I'm sure I've missed out on some launch opportunities since I was unaware of the flights unless they were announced on GPSL or Balloon_Sked (the two reflectors to which I am subscribed). Either reflector seems to me a good choice for national email launch announcements since most of the active groups seem to be on them.

The following domain names will have a link to Ralph's Launch Announcement page (take your pick which one is easiest to remember):

http://www.balloonatics.org

http://www.superlaunch.org

http://www.hamballoons.com

http://www.hamradioballoons.com

http://www.gpsl.info

http://www.gpsl.biz

http://www.upintheair.biz

http://www.wb8elk.com

Note that the GPSL and SuperLaunch web domains are also available for use for next's year's GPSL if so desired.

73s de Bill WB8ELK

971. Re: Habitat payload info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 12:59:31 UTC
From: Don Pfister
Topic: 965 Message: 971

Bill, I didn't get a reply or acknowledgment that you read this. Are you flying a balloon on Sunday too? You mentioned putting a crossband repeater together and fly it Sunday, if you have time.

HARRY, we too will be without a true TNC. We will be flying a Pocket Tracker (TinyTrak III), and Garmin Rino(s). I think the Crossband Repeater might be the only hope. IF Bill can hear the Crossband repeater you could send him a packet through it. It would only be EBE, unless Bill too flys a crossband repeater, but that too might be neat with a crossband repeater rather than a digipeater. IF the two of you are interested in a test of this sort, let me know so we can plan it. Either way be sure to check into the crossband repeater if you have the opportunity. I'm not sure if ORB will be down before we launch at 10 CDT.

Our launch status, equipment, and frequencies are on our http://habitat.netlab.org/launchsite.html page. We have a 40M freq. listed 7253.5 (oops I see it is listed as 40M 7253.5 MHz - I guess I better change that ;-).

Later,
Don

Don Pfister wrote:

> WB8ELK@... wrote:
>
> > Hi Don,
> >
> > I'm going to try to break 500 miles for balloon reception with both your
> > flight and also Harry's in Oklahoma this weekend....it turns out both of you
> > are almost exactly the same distance from me here in Alabama...533 miles to
> > your respective launchsites.
>
> I've been preoccupied, when is Harry's flight? I guess I better check email
> messages better before the weekend.
>
> > I can't seem to find particulars on the frequencies you plan to use though on
> > some of the payloads you're flying...can you send me that information....it
> > would be great to make a contact through your crossband repeater from 500
> > miles out....also I'll be monitoring ATV (are your horiz or vertically
> > polarized on ATV?).
>
> Oh boy, here goes from memory, correct me guys if I mess up. ;-)
>
> Crossband repeater - talk up on 2M 145.56 - listen down on 445.525
> ATV - 439.25 verticle
> APRS 144.34 gated to findu.com and 144.39
> SSTV 147.585

>
> IF the crossband repeater works well early in the flight we may try a test of
> SSTV through the crossband repeater. That will be announced during the flight.
> We are trying to schedule the test with some of you distance stations. Would you
> be willing/able to try a test like that?
>
> We MIGHT also try a test of the IRLP link with the crossband. This is still
> undecided.
>
> It would be great if we could make contact with you through the balloon! ;-)
>
> > If I find the time to put it all together by Sunday, I may even try to fly
> > one of my crossband repeater payloads as well to link up with yours for a DX
> > EBBE QSO.
> >
> > 73s de Bill WB8ELK
>
> I'll get the launch info updated on the
> http://habitat.netlab.org/launchsite.html page tonight.
>
> Thanks Bill!
>
> 73
> Don
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
>
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
>
> view stations on the web real time (~3 minute updates):
> http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

972. Re: [GPSL] Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 14:26:34 UTC
From: Mark Conner
Topic: 966 Message: 972

Also, I agree with Mike about the scattered reflector groups, I'm sure I've missed out on some launch opportunities since I was unaware of the flights unless they were announced on GPSL or Balloon_Sked (the two reflectors to which I am subscribed). Either reflector seems to me a good choice for national email launch announcements since most of the active groups seem to be on them.

I think we need to somehow promote Balloon_Sked as a national list - it was started for the sole purpose of launch announcements with no chit-chat. The central US groups regularly post, but there's less participation by groups outside the region. Perhaps someone can e-mail contacts for the other groups and (a) let them know of the Balloon_Sked list and (b) encourage them to post their announcements to it.

GPSL was started as a discussion list related to (go figure) the Super Launch, but it's also a good way to touch the key players among several groups.

Bill, once I have a 2005 Super Launch page figured out I'd like to take advantage of the domain name you registered.

I spoke with Mike Larson of UNO after last week's NSTAR BalloonSat launch. He's excited about the possibility of having the Super Launch during the UNO aerospace teachers' workshop in 2005. This would be a non-4th weekend though, probably 22/23 July (Fri/Sat). He also believes he could work our Friday presentations into his lesson plans.

73 de Mark N9XTN

973. Launch announcement loose ends

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 15:49:44 UTC
From: Ralph Wallio, W0RPK
Topic: 973 Message: 973

Most groups announce their flights to email lists. I subscribe to all lists I hear about and therefore already know about most flights. It takes very little additional time to periodically (weekly?) scan through web pages for info. It is reasonable to update the page every time a change is required.

I agree, balloon-sked should be used only for announcements.

I can easily copy/paste/post our launch page in HTML format to balloon-sked every time it is changed.

Bill has taken care of easily remembered URLs but users are clicking on links so a long obtuse URL doesn't appear to make much difference.

I volunteer for the chore of inviting all known groups to announce their flights on balloon-sked.

-w0rpk

974. GPSL-2005 during UNO workshop

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 15:58:38 UTC
From: Ralph Wallio, W0RPK
Topic: 974 Message: 974

I spoke with Mike Larson of UNO after last week's NSTAR BalloonSat launch. He's excited about the possibility of having the Super Launch during the UNO aerospace teachers' workshop in 2005. This would be a non-4th weekend though, probably 22/23 July (Fri/Sat). He also believes he could work our Friday presentations into his lesson plans.

73 de Mark N9XTN

I vote for GPSL-2005 on/with UNO workshop weekend assuming Mike Larson's excitement includes arrangements for a free well-equipped meeting oom. -w0rpk

975. Re: [GPSL] GPSL-2005 during UNO workshop

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 19:29:10 UTC
From: wb8elk@aol.com
Topic: 974 Message: 975

Hi Mark,

That weekend sounds great to me and looks like a nice tie-in with the UNO workshop.

- Bill WB8ELK

976. Amateur Radio high altitude balloon launch announcement service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-07-31 22:43:09 UTC
From: Ralph Wallio, W0RPK
Topic: 976 Message: 976

We have a new Amateur Radio high altitude balloon launch announcement service at http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm. Additions and changes will be updated almost daily as necessary.

Launch information is also posted to Balloon_Sked@yahoogroups.com. Balloon_Sked-subscribe@yahoogroups.com to subscribe (no subject or text is required).

All high altitude ballooning groups, Amateur Radio, university, et al., are encouraged to submit information to be included in these announcements. As of 31Jul04 we have five flights scheduled to be launched from Tulsa, Kansas City, Denver, Dallas and Houston areas.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

977. Re: [GPSL] GPSL-2005 during UNO workshop

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-01 18:52:01 UTC
From: Mark Conner
Topic: 974 Message: 977

The "free" part is not definite, but I'd say it's 98% there. Especially if he can tie it to the teachers' workshop. It may not be as nice as the room at Hutch where we had WiFi and wired Internet. But we should have computer, DVD, and VHS on a projector.

We may have non-free expenses like coffee and so forth. But I believe there are well-stocked vending machines nearby.

Since the workshop is now over I should be able to get with Mike Larson to work out the details for next year. More as I get them from him.

- Mark

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, July 31, 2004 10:58
Subject: [GPSL] GPSL-2005 during UNO workshop

> I spoke with Mike Larson of UNO after last week's NSTAR BalloonSat launch.
> He's excited about the possibility of having the Super Launch during the UNO
> aerospace teachers' workshop in 2005. This would be a non-4th weekend
> though, probably 22/23 July (Fri/Sat). He also believes he could work our
> Friday presentations into his lesson plans.
>
> 73 de Mark N9XTN
>
> I vote for GPSL-2005 on/with UNO workshop weekend assuming Mike Larson's
> excitement includes arrangements for a free well-equipped meeting
> oom. -w0rpk
>
>

978. Re: [GPSL] Re: Habitat payload info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-02 16:29:11 UTC
From: paul.verhage@boiseschools.org
Topic: 965 Message: 978

Since the Rino is a FRS radio, what kind of range do you expect?

Paul

> Bill, I didn't get a reply or acknowledgment that you read this. Are you flying a
> balloon on Sunday too? You mentioned putting a crossband repeater together and fly
> it Sunday, if you have time.
>
> HARRY, we too will be without a true TNC. We will be flying a Pocket Tracker
> (TinyTrak III), and Garmin Rino(s). I think the Crossband Repeater might be the only
> hope. IF Bill can hear the Crossband repeater you could send him a packet through
> it. It would only be EBE, unless Bill too flys a crossband repeater, but that too
> might be neat with a crossband repeater rather than a digipeater. IF the two of you
> are interested in a test of this sort, let me know so we can plan it. Either way be
> sure to check into the crossband repeater if you have the opportunity. I'm not sure
> if ORB will be down before we launch at 10 CDT.
>
> Our launch status, equipment, and frequencies are on our
> http://habitat.netlab.org/launchsite.html page. We have a 40M freq. listed 7253.5
> (oops I see it is listed as 40M 7253.5 MHz - I guess I better change that ;-).
>
> Later,
> Don
>
> Don Pfister wrote:
>
> > WB8ELK@... wrote:
> >
> > > Hi Don,
> > >
> > > I'm going to try to break 500 miles for balloon reception with both your
> > > flight and also Harry's in Oklahoma this weekend....it turns out both of you
> > > are almost exactly the same distance from me here in Alabama...533 miles to
> > > your respective launchsites.
> >
> > I've been preoccupied, when is Harry's flight? I guess I better check email
> > messages better before the weekend.
> >
> > > I can't seem to find particulars on the frequencies you plan to use though on
> > > some of the payloads you're flying...can you send me that information....it
> > > would be great to make a contact through your crossband repeater from 500
> > > miles out....also I'll be monitoring ATV (are your horiz or vertically
> > > polarized on ATV?).
> >
> > Oh boy, here goes from memory, correct me guys if I mess up. ;-)

> >
> > Crossband repeater - talk up on 2M 145.56 - listen down on 445.525
> > ATV - 439.25 verticle
> > APRS 144.34 gated to findu.com and 144.39
> > SSTV 147.585
> >
> > IF the crossband repeater works well early in the flight we may try a test of
> > SSTV through the crossband repeater. That will be announced during the flight.
> > We are trying to schedule the test with some of you distance stations. Would you
> > be willing/able to try a test like that?
> >
> > We MIGHT also try a test of the IRLP link with the crossband. This is still
> > undecided.
> >
> > It would be great if we could make contact with you through the balloon! ;-)
> >
> > > If I find the time to put it all together by Sunday, I may even try to fly
> > > one of my crossband repeater payloads as well to link up with yours for a DX
> > > EBBE QSO.
> > >
> > > 73s de Bill WB8ELK
> >
> > I'll get the launch info updated on the
> > http://habitat.netlab.org/launchsite.html page tonight.
> >
> > Thanks Bill!
> >
> > 73
> > Don
> >
> > --
> >
> > [Signature File]
> > Name=Don Pfister KA0JLF
> >
> > Founder of HABITAT SkyLab
> > (High Altitude Basic Investigation Testing And Tracking)
> >
> > view stations on the web real time (~3 minute updates):
> > http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon
>
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> Yahoo! Groups Links
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>

>

979. Re: [GPSL] GPSL-2005 during UNO workshop

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-02 16:30:59 UTC
From: paul.verhage@boiseschools.org
Topic: 974 Message: 979

> I spoke with Mike Larson of UNO after last week's NSTAR BalloonSat launch.
> He's excited about the possibility of having the Super Launch during the UNO
> aerospace teachers' workshop in 2005. This would be a non-4th weekend
> though, probably 22/23 July (Fri/Sat). He also believes he could work our
> Friday presentations into his lesson plans.
>
> 73 de Mark N9XTN
>
> I vote for GPSL-2005 on/with UNO workshop weekend assuming Mike Larson's
> excitement includes arrangements for a free well-equipped meeting
> oom. -w0rpk

I second. Is there a state contract for helium that we might be able to take advantage of?

Paul

980. Re: [GPSL] Ralph's pretty good LAUNCH ANNOUNCEMENT service

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-02 16:21:27 UTC
From: paul.verhage@boiseschools.org
Topic: 966 Message: 980

Ralph, I'll mention the website in Nuts and Volts.

Paul

> Lets see if I can stay current.
>
> http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm
>
> Suggestions, corrections and flames are encouraged.
>
> -w0rpk
>
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>
> Yahoo! Groups Links
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981. Re: [GPSL] Re: Habitat payload info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-02 20:03:03 UTC
From: Don Pfister
Topic: 965 Message: 981

UHF line of site, hundreds of miles.

Ralph you can list the Rino GPS (not the FRS) but the GPS as good above 60,000'. It feed the KC0SSI-11 Open Tracker on 2M yesterday. Unexpectedly he did get it going (thanks to the KS PFranc for the 'rPlug') in time for the flight.

Don

paul.verhage@... wrote:

> Since the Rino is a FRS radio, what kind of range do you expect?
>
> Paul
>
> > Bill, I didn't get a reply or acknowledgment that you read this. Are you flying a
> > balloon on Sunday too? You mentioned putting a crossband repeater together and fly
> > it Sunday, if you have time.
> >
> > HARRY, we too will be without a true TNC. We will be flying a Pocket Tracker
> > (TinyTrak III), and Garmin Rino(s). I think the Crossband Repeater might be the only
> > hope. IF Bill can hear the Crossband repeater you could send him a packet through
> > it. It would only be EBE, unless Bill too flys a crossband repeater, but that too
> > might be neat with a crossband repeater rather than a digipeater. IF the two of you
> > are interested in a test of this sort, let me know so we can plan it. Either way be
> > sure to check into the crossband repeater if you have the opportunity. I'm not sure
> > if ORB will be down before we launch at 10 CDT.
> >
> > Our launch status, equipment, and frequencies are on our
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> > (oops I see it is listed as 40M 7253.5 MHz - I guess I better change that ;-).
> >
> > Later,
> > Don
> >
> > Don Pfister wrote:
> >
> > > WB8ELK@... wrote:
> > >
> > > > Hi Don,
> > > >
> > > > I'm going to try to break 500 miles for balloon reception with both your
> > > > flight and also Harry's in Oklahoma this weekend....it turns out both of you
> > > > are almost exactly the same distance from me here in Alabama...533 miles to
> > > > your respective launchsites.
> > >
> > > I've been preoccupied, when is Harry's flight? I guess I better check email

> > > messages better before the weekend.
> > >
> > > > I can't seem to find particulars on the frequencies you plan to use though on
> > > > some of the payloads you're flying...can you send me that information....it
> > > > would be great to make a contact through your crossband repeater from 500
> > > > miles out....also I'll be monitoring ATV (are your horiz or vertically
> > > > polarized on ATV?).
> > > >
> > > Oh boy, here goes from memory, correct me guys if I mess up. ;-)
> > > >
> > > Crossband repeater - talk up on 2M 145.56 - listen down on 445.525
> > > ATV - 439.25 verticle
> > > APRS 144.34 gated to findu.com and 144.39
> > > SSTV 147.585
> > > >
> > > IF the crossband repeater works well early in the flight we may try a test of
> > > SSTV through the crossband repeater. That will be announced during the flight.
> > > We are trying to schedule the test with some of you distance stations. Would you
> > > be willing/able to try a test like that?
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> > > We MIGHT also try a test of the IRLP link with the crossband. This is still
> > > undecided.
> > > >
> > > It would be great if we could make contact with you through the balloon! ;-)
> > > >
> > > > If I find the time to put it all together by Sunday, I may even try to fly
> > > > one of my crossband repeater payloads as well to link up with yours for a DX
> > > > EBBE QSO.
> > > >
> > > > 73s de Bill WB8ELK
> > > >
> > > I'll get the launch info updated on the
> > > http://habitat.netlab.org/launchsite.html page tonight.
> > > >
> > > Thanks Bill!
> > > >
> > > 73
> > > Don
> > > >
> > > --
> > > >
> > > [Signature File]
> > > Name=Don Pfister KA0JLF
> > > >
> > > Founder of HABITAT SkyLab
> > > (High Altitude Basic Investigation Testing And Tracking)
> > > >
> > > view stations on the web real time (~3 minute updates):
> > > http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

982. Re: [GPSL] Re: Habitat payload info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-02 23:36:49 UTC
From: Ralph Wallio, W0RPK
Topic: 965 Message: 982

Did you actually have RINO polling working over hundreds of miles? Taking a guess at receive antenna gain (-9dB), receive noise temperature (1000dK) and required demod SNR (24dB), I calculate a maximum line-of-sight range of ~150kM (~90 miles) in an otherwise reasonable situation (e.g., antenna orientation and polarization).

We need your RINO model and software version for our 60kft listing.

TNX es 73 de Ralph Wallio, W0RPK
wallio@crosspaths.net
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: Don Pfister
To: GPSL@yahoogroups.com
Sent: Monday, August 02, 2004 3:03 PM
Subject: Re: [GPSL] Re: Habitat payload info

UHF line of site, hundreds of miles.

Ralph you can list the Rino GPS (not the FRS) but the GPS as good above 60,000'. It feed the KC0SSI-11 Open Tracker on 2M yesterday. Unexpectedly he did get it going (thanks to the KS PFranc for the 'rPlug') in time for the flight.

Don

983. GPSL 2005 - July 22-24, 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-04 14:05:14 UTC
From: n9xtn@cox.net
Topic: 983 Message: 983

I've gotten confirmation on the dates for next year's UNO Aerospace Education workshop, so the 2005 Great Plains Super Launch will be held July 22-24, 2005.

Dr Larson is not yet able to officially reserve classroom space for us this far in advance, but it will be no problem to do so and we will have it at no charge. I'm 90% sure this will be held at the UNO campus in Omaha (near 60th and Dodge if you're curious). We might have to go to Iowa Western Community College which is a few miles east of Council Bluffs on US 6.

As usual, presentations will be on Friday and the launch on Saturday, with a backup launch date of Sunday.

If there is sufficient interest, we may be able to organize outings to the Henry Doorly Zoo or the Omaha Children's Museum on Friday for family members who aren't attending the presentations.

Here is our tentative set of launch sites:

Primary launch site (landing 0-180° from launch)
Treynor (IA) High School
N41° 13.87 W95° 36.50
http://www.terraserver.microsoft.com/image.aspx?t=1&s=10&x=1406&y=22838&z=15&w=1

Alternate launch site (landing 180-359° from launch)
Wahoo (NE) High School
N41° 13.50' W96° 37.58'
http://www.terraserver.microsoft.com/image.aspx?t=1&s=10&x=3494&y=22831&z=14&w=1

If the winds are extremely light, we may have to find a launch site farther east than Treynor - bursts lower than 80,000' would land 5-10 mi east of the launch site, while a 100 kft burst would land 5-10 mi west of the launch site.

73 de Mark N9XTN

984. HABITAT SkyLab 7 year anniversary flights 04D 8/21/04 and 04E 9/11/04

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-07 00:14:32 UTC
From: Don Pfister
Topic: 984 Message: 984

The HABITAT SkyLab group will be working tomorrow on planning for their 7 year anniversary flights. Our "first flight attempt" flight will be 8/21/04 from our Original Launch Site, the Edgerton Park, Edgerton, KS. The detail haven't been worked out yet but this will be a dual flight. The new CAP-N-SPACE group will be joining us for their first flight attempt.

We plan to fly at the Herrington Airport Open House again this year on 9/11/04. Details on that too are being worked out. This will be the 7 year anniversary of our "first successful flight" flight. ;-) This too MAY BE a dual flight with Project Traveler again. They may be tied up with other commitments.

While these flight dates are not the exact dates of our flights 7 years ago, they are correct to month and year. I will update the web pages, and groups as details are confirmed.

We are going to attempt to get as many of the original members to join us as possible.

Thanks,
Don KA0JLF

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)
http://habitatskylab.org or http://www.habitatskylab.org

985. GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-12 20:00:13 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 985

I need to know the names and callsigns of the couple that helped me launch my balloon. If you're reading the email list, or know who they are, please let me know.

Thanks,
Paul

986. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-12 22:55:50 UTC
From: Don Pfister
Topic: 531 Message: 986

paul.verhage@... wrote:

> I need to know the names and callsigns of the couple that helped me launch my
> balloon. If you're reading the email list, or know who they are, please let me know.
>
> Thanks,
> Paul

Paul, it was Troy and his wife. I don't remember there calls, even though I saw them both last night. If he doesnt answer you I'll get you the info, just let me know.

73
Don

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

987. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-13 00:28:19 UTC
From: Zack Clobes
Topic: 531 Message: 987

I think my mother-in-law was helping with yours. Jaymie O'Dell (no call).

Zack

paul.verhage@... wrote:

>I need to know the names and callsigns of the couple that helped me launch my
>balloon. If you're reading the email list, or know who they are, please let me know.
>
>Thanks,
>Paul
>
>
>
>
>Yahoo! Groups Links
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>

988. Radio Range

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-13 02:15:12 UTC
From: w2osu
Topic: 988 Message: 988

I was wondering if anyone can help me out here. I was looking for a simple way to predicte the range of given system. I understand the 1.23*sqrt(alt) is the LOS, but the question I have is how does power fit into this picture. It seems to me that a 1W system or less will have a shorter range then a 10W system with every thing else hold constant.

Any help would be great.

Joe Conner
W2OSU

989. ANSR Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 16:00:01 UTC
From: paul.verhage@boiseschools.org
Topic: 989 Message: 989

Mike, I don't have your email address and I can't bring up the ANSR home page.

I'm updating my information on near space groups. I'd like to find out which city ANSR operates from and should I list you as the point of contact for anyone interested in learning more about ANSR.

Thanks,
Paul

990. Publications for GPSL Launches

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 17:27:53 UTC
From: paul.verhage@boiseschools.org
Topic: 990 Message: 990

Has anyone written about GPSL flights? I'd like to make a list for an article I'm writing.

Thanks,
Paul

PS, I have both of Zack's and Don's for GPSL 2004

991. Texas Group

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 17:39:02 UTC
From: paul.verhage@boiseschools.org
Topic: 991 Message: 991

I need a name and point of contact for the Texas group that attended GPSL 2004.
Also, do you have a webpage?

Thanks,
Paul

992. Re: [GPSL] ANSR Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 17:41:35 UTC
From: mgray@ess-us.com
Topic: 989 Message: 992

Paul,

Good to hear from you. The ANSR web site is at http://www.ansr.org
It worked just a few minutes ago.

We are based in Phoenix, Arizona

My e-mail is my callsign (kd7lmo) sent to my doman kd7lmo.net

My web site is located at http://www.kd7lmo.net

On Tue, 17 Aug 2004 paul.verhage@... wrote:

> Mike, I don't have your email address and I can't bring up the ANSR home page.
>
> I'm updating my information on near space groups. I'd like to find out which city
> ANSR operates from and should I list you as the point of contact for anyone
> interested in learning more about ANSR.
>
> Thanks,
> Paul
>
>
>
>
> Yahoo! Groups Links
>
>
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>
>

993. Re: [GPSL] ANSR Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 17:46:47 UTC
From: paul.verhage@boiseschools.org
Topic: 989 Message: 993

> Good to hear from you. The ANSR web site is at http://www.ansr.org
> It worked just a few minutes ago.

It may be something with my school. When I try to go to the website, my Netscape just sits there waiting.

Paul

994. Re: [GPSL] ANSR Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 17:54:22 UTC
From: mgray@ess-us.com
Topic: 989 Message: 994

Let me know if you are still having problems. I tried it from two
different ISPs, and they both loaded very quickly. Maybe try refresh on
Netscape or clear your history. Sometimes the history/cache files get
very large in Netscape and this can clog up the system.

On Tue, 17 Aug 2004 paul.verhage@... wrote:

> > Good to hear from you. The ANSR web site is at http://www.ansr.org
> > It worked just a few minutes ago.
>
> It may be something with my school. When I try to go to the website, my Netscape
> just sits there waiting.
>
> Paul
>
>
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>
> Yahoo! Groups Links
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995. Re: [GPSL] ANSR Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-17 19:41:49 UTC
From: Mike Manes
Topic: 989 Message: 995

Paul,
I assume you mean Mike Grey KD7LMO of ANSR out of Phoenix AZ, right?
73 de Mike Manes W5VSI, EOSS, Denver CO.

paul.verhage@... wrote:
>
> Mike, I don't have your email address and I can't bring up the ANSR home page.
>
> I'm updating my information on near space groups. I'd like to find out which city
> ANSR operates from and should I list you as the point of contact for anyone
> interested in learning more about ANSR.
>
> Thanks,
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

996. Pre-GPSL Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-19 13:14:00 UTC
From: paul.verhage@boiseschools.org
Topic: 996 Message: 996

Back in 2000, I visited Kansas for a balloon launch on 1 July. Mark and I lanuched a flight, but I don't remember if Bill All tried. There was a launch where his balloon had a hole in it as it came from the company. Was that the flight?

Paul

997. Fw: South Texas BLT-20 Info

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-24 14:24:36 UTC
From: Ralph Wallio, W0RPK
Topic: 997 Message: 997

Recap of latest BLT flight near Houston. Note successful RC flying wing glider release from low altitude. - Ralph W0RPK

----- Original Message -----
From: "MacAllister, Andrew [EPM/HOU]"
<Andrew.MacAllister@...>
To: "'Ralph Wallio, W0RPK'" <wallio@...>
Cc: <k5gd@...>
Sent: Tuesday, August 24, 2004 8:32 AM
Subject: RE: South Texas BLT-20 Info

Hi Ralph!

As long as there is one small hole in the clouds that we can squeeze the balloon through, we will have a launch! We went up about 38 minutes late, but that is normal for us. Although we only advertised the "Mode B" repeater with two meters up and 70-cm down, it was bidirectional. There were some potential interference issues, but if the NTBP had not scrubbed, and if they were bi-directional also, we would have moved the 70-cm frequency on our repeater to match theirs and announced the bi-directional capability of our system. Not this time, but it would be fun to try at a future date!

Our flight went VERY well!! The wing glider was released just as the payloads entered the clouds. The TV from the wing glider went from gray nothing to quickly-approaching ground! Then N5RPQ pulled out of the dive and headed for the airport runway. We crossed over Highway 59 (future IH-69) and came in for a smooth landing in the grass just short of the runway - watching the video the whole time.

The main payload continued on to @~83K' with great video, APRS and cross-band repeater activity. After burst the payload floated down to a spot about 100' off of a nice paved county road in a cleared field - only 0.5 miles from our usual post-flight BBQ restaurant!

Absolutely FANTASTIC! I will be updating the website as time allows. I got the "Final Integration Meeting" photos up last night. The 35-mm camera pix show a lot of cloud shots, but I will get them scanned as soon as Pete KD5ELH, our Photo Master, gets them to me.

A good time was had by all! Now we can kick back and play with the cross-band repeater on the NTBP project on September 4th!!!

73 de Andy W5ACM

http://www.qsl.net/w5acm/

-----Original Message-----
From: Ralph Wallio, W0RPK [mailto:wallio@...]
Sent: Tuesday, August 24, 2004 6:40 AM
To: MacAllister, Andrew [EPM/HOU]
Subject: Re: South Texas BLT-20 Info

After the NTBP WX scrub I brought up Houston WX radar early Saturday morning and noted thunderstorms in your area. Did you folks fly BLT-20 or did you scrub and announce another date?

I note that both BLT and NTBP are including cross-band voice repeaters, BLT with VHF>UHF and NTBP with UHF>VHF. Given flights at the same time on the same day, frequency coordination might yield some interesting EBBE QSOs with potential distance records.

There have been only two EBBE QSOs to date (see http://users.crosspaths.net/wallio/RECORDS.htm) both far short of maximum distance.

It is tough enough to get one balloon off the ground let alone two with coordinated payloads at the same time. Record distances also require cooperation of ground stations out at the edge of coverage from near maximum altitudes.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

998. Re: [GPSL] OnSet Prize

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-26 13:13:48 UTC
From: paul.verhage@boiseschools.org
Topic: 880 Message: 998

I'll use Ralph's webpage of records for the OnSet Prize. So far the highest flight is 112,764 feet, on 10 Jan 2004, by SSOK, Pete Sias (WBØDRL)

Paul

999. TVNSP Launch Announcement TV04B

Yahoo group: GPSL (2002 — 2008)
Date: 2004-08-31 23:11:16 UTC
From: John - K7JPS
Topic: 999 Message: 999

Treasure Valley Near Space Program Inc (TVNSP Inc) will launch TV04B on Saturday, September 4th at approx 7:15 am MDT (1415 UTC).

The flight will consist of 2 capsules flying under the TVNSP Inc call sign NS7TV-1 and Dan Paulson's callsign KD7OST-11. The balloon will be a 1200 gram Kaysam. The expected burst altitude will be 103,000 feet or more.

The first capsule, NS7TV-1, will be flying an Alinco DJ-S11 with a TT3 and Garmin GPS 35 LV on 144.39 MHz. This capsule will be Jeff's Camera Platform and will also control the cut-away device for the balloon. The capsule will carry a panoramic camera and is programmed to take photos of the balloon, horizon, and the release of the second capsule.

The second capsule, KD7OST-11, which will be the first test of Dan's High Altitude/Low Opening Freefall (HALO) recovery system (Project Icarus) will also be flying a Alinco DJ-S11 with a TT3 with a Gecko GPS also on 144.39 MHz. This is likely to be the first and only flight of this hardware configuration. We hope to implement this recovery technology into most if not all of our future capsules.

This flight will have a single launch with separate recoveries for the two capsules. The release capsule will be cut away upon a command from the ground and will freefall to 20k where it will deploy it's parachute and enter a normal recovery mode.

Photos of both of the capsules can be found at http://www.tvnsp.org/modules.php?name=Gallery.

The launch point is yet to be determined. Landing of both capsules will be along the Owyhee front.

1000. GPSL winners

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-11 20:48:02 UTC
From: paul.verhage@boiseschools.org
Topic: 1000 Message: 1000

I nned the mailing addresses for the Nuts an dvolts subscription winners at GPSL 2004.

Thanks,
Paul

1001. [Fwd: [Fwd: [Fwd: [HABITAT_SkyLab] 88,585 ft. Successful flight!]]]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-12 01:23:49 UTC
From: Don Pfister
Topic: 1001 Message: 1001

Due to last minute changes, only had 70% of a 300 cu. ft tank, payloads were not flown.

Flew under KA0JLF-3, last packet on APRS was about 53,000 ft.

I'll try to get the SSTV pictures uploaded to the web site tomorrow. Some pretty neat pics from the SSTV.

More later,
Don

> Don Pfister wrote:
> >
> > habitat_skylab wrote:
> > >
> > > We got to 88,585 ft today. All three chase teams, 2 ground mobile and
> > > one air mobile, got to watch the decent! Very neat!!!
> > >
> > > More info, data to come. Lots of great pictures from the SSTV!!!
> > >
> > > Don KA0JLF
> > > Founder HABITAT SkyLab
> > > 7 years with a perfect record!! Over 20 flights, all successful!!
> > > 4 flights in 60 days, that should be a record too. ;-)
> > > 5 flights so far for 2004, with about 4 more planned
> > > next flight in two weeks, probably 2 in Oct. maybe 2 in Nov.
> > >
> > > Yahoo! Groups Links
> > >

--

[Signature File]
Name=Don Pfister KA0JLF
PFranc of KS - GPS cables and connectors
http://pfranc.com/cgi-bin/pub/u_KS?pid=eD1
http://pfranc.com/cgi-bin/pub/u_KS?pid=pD32
http://pfranc.com/cgi-bin/pub/u_KS?pid=pD8
http://pfranc.com/cgi-bin/pub/u_KS
http://pfranc.com/cgi-bin/pub/u_KS?pid=ePlug
http://pfranc.com/cgi-bin/pub/u_KS?pid=USB_G4 USB to Serial converter - also a 6' cord version
http://pfranc.com/cgi-bin/pub/u_KS?pid=eMax - power and data combo

Founder of HABITAT SkyLab soon to add SeaLab (underwater robotics)
(High Altitude Basic Investigation Testing And Tracking)
email: habitat@...

http://users.crosspaths.net/wallio/RECORDS.html
Email=ka0jlf@... or ka0jlf@... or donp@...

http://home.kc.rr.com/cdpfister/Kites/kites1.html Our Kite Page

http://habitat.netlab.org
http://www.netlab.org:8888/ Visit the Lab in the Hobby wing. HABITAT being built...

view stations on the web real time (~3 minute updates):
http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon

1002. Re: [GPSL] GPSL 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-13 13:21:33 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 1002

Zack, I need your mailing address for your Nuts and Volts subscription.

Paul

1003. Addresses for Winners

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-13 13:40:06 UTC
From: paul.verhage@boiseschools.org
Topic: 531 Message: 1003

Rick, I'll also need your address for the Nuts and Volts subscription.

Paul

1004. HABITAT SkyLab HS04E flight SSTV pictures - slideshow

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-21 01:58:27 UTC
From: Don Pfister
Topic: 1004 Message: 1004

I have created little slideshows for each of the SSTV pictures captured by the following people:

http://www.habitatskylab.org/HS04E/IMAGES/SSTV/W0RPK/ - Ralph in Iowa
http://www.habitatskylab.org/HS04E/IMAGES/SSTV/W0JRT/ - Jerome in Lenexa, KS
http://www.habitatskylab.org/HS04E/IMAGES/SSTV/N4BM/ - Bob in Wichita, KS
http://www.habitatskylab.org/HS04E/IMAGES/SSTV/KA5YFC/ - Steve, mobile chase team
http://www.habitatskylab.org/HS04E/IMAGES/SSTV/KA0JLF/ - Don, mobile chase team

Steve, KA5YFC, got the most pictures. He has several from before the launch at the airport, and some at the landing.

I find it interesting to see the pictures captured from all the locations. I'm not sure of the distance for each station but some are a hundred miles or more, I think. Thanks to everyone that captured the SSTV pictures and sent them too me.

73
Don KA0JLF

--

[Signature File]
Name=Don Pfister KA0JLF

1005. [HABITAT_SkyLab] flight freqs]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-26 03:40:00 UTC
From: Don Pfister
Topic: 1005 Message: 1005

Just an attempt to let you know about the balloon flight in the morning.
9/26/04 10:30 a.m. CDT from Edgerton, KS

We hope to get to about 90,000 feet so there should be a range of about 500
miles in all directions.

The 2M RDF locator beacon will have a horizontal antenna.

Let me know if you hear anything. You should be able to see where it is at on
the web at findu.com see links below.

Pictures from the balloons should be received every 3 minutes. You can check our
web site for SSTV picture slideshows from previous flight at habitatskylab.org.

73
Don KA0JLF

> > Don Pfister wrote:
> > >
> > > http://habitatskylab.org/launchsite/launchsite.html updated with flight
> > > info.
> > >
> > > 73
> > > Don KA0JLF
> > >
> > > Don Pfister wrote:
> > > > >
> > > > > habitat_skylab wrote:
> > > > > >
> > > > > > Last update: 09/25/04 20:54:
> > > > > >
> > > > > > 1) KA0JLF-11 Primary tracking - 144.34 MHz gated to Internet and
> > > > > > 144.39
> > > > > >
> > > > > > 2) KA0JLF-12 Secondary tracking & control - 144.39 and gated to
> > > > > > Internet
> > > > > >
> > > > > > 3) SSTV 147.585 simplex automatically transmit picture every 3 mins
> > > > > > (first to be dropped if wgt limit)
> > > > > >
> > > > > > 4) 2M simplex repeater 145.555 MHz
> > > > > >
> > > > > > 5) 147.455 MHz RDF locator beacon
> > > > > >
> > > > > > 6) RDF locator beacons at: 216.045 and 147.455
> > > > > >

> > > > > 7) 40M net 7253.5 KHz
> > > > >
> > > > > Anyone able to announce flight info on 40M tomorrow?
> > > > >
> > > > > Don
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
>
> view stations on the web real time (~3 minute updates):
> http://www.findu.com/cgi-bin/find.cgi?KA0JLF-11 balloon
> http://www.findu.com/cgi-bin/find.cgi?KA0JLF-12 balloon
> http://fmsstv.net possible SSTV pictures every 3 minutes from the balloon

1006. Re: [GPSL] [HABITAT_SkyLab] flight freqs]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-26 17:35:54 UTC
From: Michael L. Bogard
Topic: 1005 Message: 1006

Position of KA0JLF-11

7.1 miles southwest of Olathe, KS

The balloon is on the ground and they are looking for it now.

1007. Re: [GPSL] [HABITAT_SkyLab] flight freqs]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-26 18:01:18 UTC
From: Michael L. Bogard
Topic: 1005 Message: 1007

Position of KA0JLF-11

7.1 miles southwest of Olathe, KS

Larry (call unkown) has found the package at 12:58.

1008. Re: [GPSL] [HABITAT_SkyLab] flight freqs]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-26 23:09:29 UTC
From: Harry M
Topic: 1005 Message: 1008

Hi Don,

We took off at 10:40 CDT from Harvey Young on the east side of Tulsa in a Cessna 180 and flew to Grand Lake Regional at an altitude between 2k & 3k. I listened for the simplex repeater and the RDF beacon. NO JOY!

Sorry!

73

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

1009. Re: [GPSL] [HABITAT_SkyLab] flight freqs]

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-26 23:18:44 UTC
From: Don Pfister
Topic: 1005 Message: 1009

No problem Harry. We had checkins on the Simplex repeater from KS, NE, IA as far as I remember.

Guy in Wichita, KS captured 20 SSTV pictures, they are online at http://fmsstv.net/sp/index.html until the next special event that over writes them. About the last two show the runways at New Century Airport.

Thanks for the report! More later, 73
Don

Harry M wrote:

> Hi Don,
>
> We took off at 10:40 CDT from Harvey Young on the east side of Tulsa in a
> Cessna 180 and flew to Grand Lake Regional at an altitude between 2k & 3k. I
> listened for the simplex repeater and the RDF beacon. NO JOY!
>
> Sorry!
>
> 73
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/

1010. manual for Canon Elph LT camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-29 23:52:53 UTC
From: Don Pfister
Topic: 1010 Message: 1010

I bought a Canon Elph LT camera at Best Buy last night. It seems to work fine, but it was an open item and no manual.

Do any of you have a manual that could pass along any points of operation that might not be obvious?

The specs on the web says it is suppose to impose the date/time on the film but didn't. I have the date/time set but am not sure how to set the camera to super impose it on the photo.

I quickly took a roll of film and had it processed today. Seems to be ok.

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF

1011. Re: [KNSP] manual for Canon Elph LT camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-30 00:13:00 UTC
From: Mark Conner
Topic: 1011 Message: 1011

Press the "Date" button on the back of the camera until DATE shows in the display. You have the choice of 2 formats: day/time or year/month/day - keep pressing unti the right one comes up. The information is not burned onto the negative, but instead is recorded on a magnetic strip in the cassette I believe.

However, the photofinisher software doesn't always follow the coding. At Wal-Mart, it always gave me the YMD format on the photo itself. However, the recorded year/month/day/time was always printed on the back.

73 de Mark N9XTN
----- Original Message -----
From: Don Pfister
To: KNSP@yahoogroups.com ; GPSL@yahoogroups.com
Sent: Wednesday, September 29, 2004 18:52
Subject: [KNSP] manual for Canon Elph LT camera?

I bought a Canon Elph LT camera at Best Buy last night. It seems to work fine, but it was an open item and no manual.

Do any of you have a manual that could pass along any points of operation that might not be obvious?

The specs on the web says it is suppose to impose the date/time on the film but didn't. I have the date/time set but am not sure how to set the camera to super impose it on the photo.

I quickly took a roll of film and had it processed today. Seems to be ok.

Thanks,
Don

--

[Signature File]
Name=Don Pfister KA0JLF

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP

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1012. Re: [GPSL] Re: [KNSP] manual for Canon Elph LT camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-30 12:28:54 UTC
From: Don Pfister
Topic: 1011 Message: 1012

Thanks Mark, I had/have it set so Day hh:mm 'Date' shows in the LCD but didn't show up on the photos. Hmm... There isn't a date on the back of the prints either. Do I have to request it be printed?

OH, well now I remember, I guess I didn't hit the set/select buttons enought because the colon was still blinking and the time didn't update. At lunch yesterday Larry and I looked at the camera and processed film. We figured out the flashing colon was why the time hadn't updated. I think we hit one of the buttons another time and then the time started updating.

Isn't that the kind of camera you used for a while Mark?

73
Don

Mark Conner wrote:

> Press the "Date" button on the back of the camera until DATE shows in the
> display. You have the choice of 2 formats: day/time or year/month/day - keep
> pressing unti the right one comes up. The information is not burned onto the
> negative, but instead is recorded on a magnetic strip in the cassette I
> believe. However, the photofinisher software doesn't always follow the
> coding. At Wal-Mart, it always gave me the YMD format on the photo itself.
> However, the recorded year/month/day/time was always printed on the back. 73
> de Mark N9XTN
>
> ----- Original Message -----
> From: Don Pfister
> To: KNSP@yahoogroups.com ; GPSL@yahoogroups.com
> Sent: Wednesday, September 29, 2004 18:52
> Subject: [KNSP] manual for Canon Elph LT camera?
> I bought a Canon Elph LT camera at Best Buy last night. It seems to
> work fine,
> but it was an open item and no manual.
>
> Do any of you have a manual that could pass along any points of
> operation that
> might not be obvious?
>
> The specs on the web says it is suppose to impose the date/time on
> the film but
> didn't. I have the date/time set but am not sure how to set the
> camera to super
> impose it on the photo.
>
> I quickly took a roll of film and had it processed today. Seems to

> be ok.
>
> Thanks,
> Don
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
>
>

1013. Re: [GPSL] Re: [KNSP] manual for Canon Elph LT camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-09-30 12:36:56 UTC
From: Mark Conner
Topic: 1011 Message: 1013

Yes, it's the same kind I've flown for about 2 years now.

I've never had to ask for the date/time to be printed.

- Mark

----- Original Message -----
From: "Don Pfister" <ka0jlf@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, September 30, 2004 07:28
Subject: Re: [GPSL] Re: [KNSP] manual for Canon Elph LT camera?

> Thanks Mark, I had/have it set so Day hh:mm 'Date' shows in the
> LCD but didn't
> show up on the photos. Hmm... There isn't a date on the back of
> the prints
> either. Do I have to request it be printed?
>
> OH, well now I remember, I guess I didn't hit the set/select
> buttons enought
> because the colon was still blinking and the time didn't
> update. At lunch
> yesterday Larry and I looked at the camera and processed film.
> We figured out
> the flashing colon was why the time hadn't updated. I think we
> hit one of the
> buttons another time and then the time started updating.
>
> Isn't that the kind of camera you used for a while Mark?
>
> 73
> Don
>
> Mark Conner wrote:
>
>> Press the "Date" button on the back of the camera until DATE
>> shows in the
>> display. You have the choice of 2 formats: day/time or
>> year/month/day - keep
>> pressing unti the right one comes up. The information is not
>> burned onto the
>> negative, but instead is recorded on a magnetic strip in the
>> cassette I
>> believe. However, the photofinisher software doesn't always
>> follow the
>> coding. At Wal-Mart, it always gave me the YMD format on the

>> photo itself.
>> However, the recorded year/month/day/time was always printed
>> on the back. 73
>> de Mark N9XTN
>>
>> ----- Original Message -----
>> From: Don Pfister
>> To: KNSP@yahoogroups.com ; GPSL@yahoogroups.com
>> Sent: Wednesday, September 29, 2004 18:52
>> Subject: [KNSP] manual for Canon Elph LT camera?
>> I bought a Canon Elph LT camera at Best Buy last night.
>> It seems to
>> work fine,
>> but it was an open item and no manual.
>>
>> Do any of you have a manual that could pass along any
>> points of
>> operation that
>> might not be obvious?
>>
>> The specs on the web says it is suppose to impose the
>> date/time on
>> the film but
>> didn't. I have the date/time set but am not sure how to
>> set the
>> camera to super
>> impose it on the photo.
>>
>> I quickly took a roll of film and had it processed today.
>> Seems to
>> be ok.
>>
>> Thanks,
>> Don
>>
>> --
>>
>> [Signature File]
>> Name=Don Pfister KA0JLF
>>
>>
>
>
>
> ------------------------ Yahoo! Groups
>
>
> Yahoo! Groups Links
>
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>
>

1014. Last Weekend's ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 14:11:26 UTC
From: paul.verhage@boiseschools.org
Topic: 1014 Message: 1014
Attachments: 2 described; binary payloads are missing from this source WARC

Here's an update on the ISU launch last weekend. It was the best flight I've seen in Idaho. No surface winds and a 20 mile flight that landed a few hundred feet from the road in a plowed farm field. There were well placed roads for the entire flight. we spent lots of time with the farmer of the property we launched from and at a truck stop showing visitors the balloon and the UI View map.

I ran out into the field as the balloon landed and missed grabbing it by about 3 feet. The plowed field was uneven and I couldn't change my running direction fast enough without tripping. I'll email a few photos when I get them from ISU. I'm attaching a spreadsheet of the science data my flight collected.

Another topic. BalloonSats are popular with college students. The University of Idaho recommends using the plastic tube of a ball point pen to run the load line through. ISU says they saw metal pipe (from lamps) being used at Boulder. We lost three BalloonSats when the metal tube of one BalloonSats abradied the load line. I recommend using plastic tubing from hobby shops for the loal line and three cord suspension system. I'll post photos of the design shortly. I would also recommend using 1/2" thick styrofoam in place of the foam core. I'll write up an article on this for Nuts and Volts for early next year. I'm planning on getting Boise School District students to make a bunch of BalloonSats for launch.

Paul

1015. Re: [GPSL] Last Weekend's ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 14:42:34 UTC
From: n9xtn@cox.net
Topic: 1014 Message: 1015

> I ran out into the field as the balloon landed and missed grabbing
> it by about 3 feet.
> The plowed field was uneven and I couldn't change my running
> direction fast enough
> without tripping.

Very cool. We haven't quite been able to do that here yet, though we have had good luck being within a couple hundred yards as the payloads come down.

>
> Another topic. BalloonSats are popular with college students.
> The University of
> Idaho recommends using the plastic tube of a ball point pen to run
> the load line
> through. ISU says they saw metal pipe (from lamps) being used at
> Boulder. We lost
> three BalloonSats when the metal tube of one BalloonSats abradied
> the load line. I
> recommend using plastic tubing from hobby shops for the loal line
> and three cord
> suspension system. I'll post photos of the design shortly. I
> would also recommend
> using 1/2" thick styrofoam in place of the foam core. I'll write
> up an article on this for
> Nuts and Volts for early next year. I'm planning on getting Boise
> School District
> students to make a bunch of BalloonSats for launch.

For the UNO BalloonSat flight, I believe the students used plastic tubing used to run water to things like ice makers in refrigerators, etc. Easily obtained from a hardware or home improvement store. To keep the tubing from sliding through the cube, a metal retaining clip (looks like a "C" with flanges that grip the tube) was placed on both sides of the cube. This worked pretty well for us. The tube was flexible enough to keep the line from abrading. We also put a separate line from the top tracking payload to the bottom one so that if one of the BalloonSats did cut the load line, the tracking payloads would remain tied together. There were no cameras in our BalloonSats so there were no issues with obscuring their view with another line.

Has there been an issue with foam core satellites? I think foam core mount board would be a lot easier for the students to cut cleanly than styrofoam.

73 de Mark N9XTN

1016. Re: [GPSL] Last Weekend's ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 15:35:31 UTC
From: paul.verhage@boiseschools.org
Topic: 1014 Message: 1016

> For the UNO BalloonSat flight, I believe the students used plastic tubing used to run water to things like ice makers in refrigerators, etc. Easily obtained from a hardware or home improvement store. To keep the tubing from sliding through the cube, a metal retaining clip (looks like a "C"
with flanges that grip the tube) was placed on both sides of the cube. This worked pretty well for us. The tube was flexible enough to keep the line from abrading. We also put a separate line from the top tracking payload to the bottom one so that if one of the BalloonSats did cut the load
line, the tracking payloads would remain tied together. There were no cameras in our BalloonSats so there were no issues with obscuring their view with another line.
>
> Has there been an issue with foam core satellites? I think foam core mount board would be a lot easier for the students to cut cleanly than styrofoam.

I'm using a polystyrene tube (3/8" diameter, I believe) for my BalloonSat tube. The tube is manufactured straight. I can hot glue it to the 1/2" styrofoam BalloonSat.

I'm using 1/2" foam because it will be warmer and I believe easier to machine. As long as I use a sharp exacto knife, I get clean cuts on the foam. The BalloonSat should be stronger in foam than foamcore. I'll have some students make strenght tests on the stuff in the next week. Also, the BalloonSat will be more protected from water damage.

I coat my BalloonSat with Uline tape, a tape made for styrofoam gliders. It comes in a variety of colors and is very lightweight. Especially when you compare it to the aluminum tape used on some BalloonSats. With uline tape and 1/2" foam, I believe my BalloonSat airframe is lighter.

I'll have my students run some tests and report back the results.

On using a three line suspension...
Using the single line suspension risks abrading the line and dropping the lower BalloonSats, which is how my BalloonSat was lost. There are alternatives, as Mark said. But if you use a three line suspension, you also reduce the rocking and spinning experienced by the BalloonSats. The photos should be crisper as a result. The reduced rocking and spinning also cuts down on the abrasion.

Paul

1017. Re: [GPSL] Last Weekend's ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 15:54:16 UTC
From: n9xtn@cox.net
Topic: 1014 Message: 1017

> I coat my BalloonSat with Uline tape, a tape made for styrofoam
> gliders. It comes in
> a variety of colors and is very lightweight. Especially when you
> compare it to the
> aluminum tape used on some BalloonSats. With uline tape and 1/2"
> foam, I believe
> my BalloonSat airframe is lighter.

Our students used what appeared to be colored duct tape, but we weren't as concerned about weight. Is the Uline tape available at hobby stores?

> On using a three line suspension...
> Using the single line suspension risks abrading the line and
> dropping the lower
> BalloonSats, which is how my BalloonSat was lost. There are
> alternatives, as Mark
> said. But if you use a three line suspension, you also reduce the
> rocking and
> spinning experienced by the BalloonSats. The photos should be
> crisper as a result.
> The reduced rocking and spinning also cuts down on the abrasion.

Can you describe (or post a photo) of your three-line suspension?

- Mark

1018. Re: [GPSL] Last Weekend's ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 16:15:39 UTC
From: paul.verhage@boiseschools.org
Topic: 1014 Message: 1018

> Our students used what appeared to be colored duct tape, but we weren't as concerned about weight. Is the Uline tape available at hobby stores?

It is. HobbyTown in boise has part of a wall dedicated to the stuff. It's a very thin tape.

> Can you describe (or post a photo) of your three-line suspension?

I'm working on it between classes. It's basically a spreader ring for a parachute, but flipped upside down. I started with a bearing swivel and tied three 50 pound test spectra lines to it and sealed the knots in heat shrink tubing. I took a 6" diameter needle point ring and drilled three equally spaced holes in it. The lines from the bearing swivel drop through the needle point loop. I slid a bead on each line and then tied a large knot in the spectra. The knots keep the beads from sliding any farther down and the beads keep the needle point ring from sliding down. I'm now working on tying bearing swivels every 18 inches.

A BalloonSat needs to have three tubes glued into it. The styrene tubes I'm using are very light weight. I cut grooves into the foam body of the BalloonSat for each tube before I assemble it. To make the grooves, I sharpened up a plastic tube and twisted it into the foam to cut a cylinderical groove the correct diameter. I also cut smaller diameter holes in the foam for 3/16" wooden dowel. The dowels protrude from the BalloonSat by about 3/4" so I can rubber band the hatch on the BalloonSat.

After hot gluing the BalloonSat together, I cover it in tape (I used black for thermal concerns) and then punch out the holes in tape covering the BalloonSat airframe. Then I hot glue the tubes and dowels into place. I'm also making tape labels with my name and phone number.

To fly the BalloonSats, I connect the swivel in the suspension to the bottom of the last module in the near spacecraft. The three lines from the suspension are dropped through the plastic tubes of each BalloonSat and the BalloonSats are pushed up to the level of a bearing swivel. I'll then run a jump ring through the bearing swivel so the BalloonSat can't slide off.

I'll get a digital photo and send it this week.

Paul

1019. Re: [GPSL] Last Weekend's ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 22:16:59 UTC
From: Mike Manes
Topic: 1014 Message: 1019

Hi Mark,

Congrats on a near-bushel-basket recovery!

Not sure whose email from U. Idaho that you were quoting (Paul V?), but I ran a post-mortem on the line that separated above the six bottom payloads on EOSS-81. The line separated in the middle of the 2-ft open span between the knots separating the the two adjacent payloads. This span could never have come in contact with the ends of the thru tubes; so
it appears that the 240# tensile dacron line separated due to excessive tension during post-burst chaos.

Note that some of the separated payload housings had the aerodynamic characterisitics of a shoe box, thus exacerbating post-burst chaos. On most flights, we put a streamlined (fast-falling) beacon at the bottom. but on this one, I foolishly decided to move the beacon up the payload line and to let someone else's box take the parachute drag drubbing.

EOSS has used this method successfully on many payloads, and we use threaded plastic dress caps drilled thru to prevent abrasion. Mating nuts make interior access to the clamshell housings fast and easy.

We have also seen a number of student payloads using less robust attachments arrive at the recovery site with nothing but a plastic thru tube left on the line. The payload housing must be secured firmly to the thru tube, as this is all that is keeping it from solo flight.

One EOSS payload uses a 0.38" diameter HDPE toilet fill tube as the thru tube. This tube has a molded-in flange at one end that provides a large-area surface to support the bottom of the housing. But it's very had to cut decent threads into this material to accept a nylon nut agt the top. I finally got it right using a very sharp lathe tool and the single-point threading method.

Building-grade styofoam board can be useful for payload housings, but it is difficult to make precise cavities into, and nearly impossible to seal the air gap between the housing and a removable cover. And it doesn't tolerate a rough parachute drag without leaving gouged-off bits behind. The EOSS CW/cutdown beacon foamcore housing has endured well over 20 flights and recoveries; altho it's a bit "cosmetically compromised" from all the landing dings, it's still quite functional. Those poster paper shear layers are surprisingly robust, especially when treated with a couple of thin coats of Krylon.

EOSS's first two Shuttles used a four-cord bridle attached to the corners and tied off a few feet above and below the housing. Although

this scheme does support the package well while conferring some
reducdancy, it also translates line tension into radial crushing forces
that the walls of the housing must withstand. One Shuttle had to be
re-built after a flight where it supported a 50# USAFA at the bottom
of the line. And that flight did not incur post-burst chaos.
The thru-tube method completely isolates the payload structure from the
line tension, and that was our purpose in developing it.

73 de Mike W5VSI
EOSS

n9xtn@... wrote:
>
> > I ran out into the field as the balloon landed and missed grabbing
> > it by about 3 feet.
> > The plowed field was uneven and I couldn't change my running
> > direction fast enough
> > without tripping.
>
> Very cool. We haven't quite been able to do that here yet, though we have had good luck being within a couple hundred yards as the payloads come down.
>
> >
> > Another topic. BalloonSats are popular with college students.
> > The University of
> > Idaho recommends using the plastic tube of a ball point pen to run
> > the load line
> > through. ISU says they saw metal pipe (from lamps) being used at
> > Boulder. We lost
> > three BalloonSats when the metal tube of one BalloonSats abradied
> > the load line. I
> > recommend using plastic tubing from hobby shops for the loal line
> > and three cord
> > suspension system. I'll post photos of the design shortly. I
> > would also recommend
> > using 1/2" thick styrofoam in place of the foam core. I'll write
> > up an article on this for
> > Nuts and Volts for early next year. I'm planning on getting Boise
> > School District
> > students to make a bunch of BalloonSats for launch.
>
> For the UNO BalloonSat flight, I believe the students used plastic tubing used to run water to things like ice makers in refrigerators, etc. Easily obtained from a hardware or home improvement store. To keep the tubing from sliding through the cube, a metal retaining clip (looks like a "C" with flanges that grip the tube) was placed on both sides of the cube. This worked pretty well for us. The tube was flexible enough to keep the line from abrading. We also put a separate line from the top tracking payload to the bottom one so that if one of the BalloonSats did cut the load line, the tracking payloads would remain tied together. There were no cameras in our BalloonSats so there were no issues with obscuring their view with another line.
>

> Has there been an issue with foam core satellites? I think foam core mount board would be a lot easier for the students to cut cleanly than styrofoam.
>
> 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1020. ISU Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-05 23:12:28 UTC
From: paul.verhage@boiseschools.org
Topic: 1020 Message: 1020

I've been using the 1/2" styrofoam on capsules in the past, and now with the BalloonSats. I suppose that if the edges had to be absolutely square, then a hot wire cutter or small table saw is the way to go. I find that just cutting it with a straight edge is good enough. A little hot glue can fill the resulting gaps. With the 1/2" foam and the fact that these are BalloonSats with limited weight, the compression forces seem to be insignificant. I can image a very wide BalloonSat would have an issue, but keeping them to 500 grams (or 400 grams here in Idaho), would seem to preclude particulary wide BalloonSat airframes.

The flight in Idaho this week looked like a line cut by a metal pipe. The end of the line was frayed at about where I would expect the pipe to do it. All it takes is a single BalloonSat to cut a line to doom the BalloonSats below. The three line suspension I'm building will keep the twisting and rocking to a minumum and prevent the abraided line. And it includes redundancy. The BalloonSats are free to move around a bit on the suspension lines, but their movement is restricted.

Paul

1021. BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-06 14:59:39 UTC
From: paul.verhage@boiseschools.org
Topic: 1021 Message: 1021
Attachments: 6 described; binary payloads are missing from this source WARC

I'm attaching images of the harness I made yesterday, along with two images of BalloonSats that I assembled.

In the next week I'll plan to run a strength and temperature test. I'll let you know what I find. I'll also write something up for Nuts and Volts.

Paul

1022. Balloon Photo

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-06 17:25:31 UTC
From: paul.verhage@boiseschools.org
Topic: 1022 Message: 1022
Attachments: 2 described; binary payloads are missing from this source WARC

This is a photo taken by Dr. Chadwick during last week's ISU launch.

So close, but no cigar!

Paul

1023. BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-07 13:37:00 UTC
From: paul.verhage@boiseschools.org
Topic: 1021 Message: 1023

I have made a traditional BalloonSat for comparison to my modifications. Here's what I have so far.

I measured the weight of a 5" by 5" sheet of foamcore (3/16" thick) and of a 5" by 5" sheet of 1/2" (actually 9/16" thick) styrofoam. My digital scale measures to a precision of 2 grams. The foamcore weighs 10 grams and the 1/2" styrofoam weighs 8 grams. The bare 5" cube BalloonSat in foamcore weighs 58 grams and weighs 82 grams with a minumum covering of aluminum tape (which is what I saw U of I and CU Boulder students use). The 5" cube BalloonSat made from 1/2" styrofoam weighs 62 grams complete, including the suspension tubes, dowels for locking the hatch on, and Uline tape.

I plan to make two more tests this weekend. I cut 20" long by 2" wide strips of both materials. I plan to use them to measure the breaking strength of both materials. I'l also measure temperatures inside both 5" cubic BalloonSats. The styrofoam is about 2-1/2 times thicker, so I expect its R value to be 2-1/2 times greater. I'm not sure how the black tape on the styrofoam and the aluminum tape on the foamcore boxes will modify that.

Paul

1024. Re: [GPSL] BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-11 18:02:22 UTC
From: Mike Manes
Topic: 1021 Message: 1024

Hi Paul,

I use a thin coat of dayglo orange Krylon on the external foamcore surfaces - mush lighter than Al duct tape. If shielding is needed, I use kitchen-grade Al foil inside where it's needed, bonded using Elmer's glue. The Al tape's adhesive is not electrically conductive, but pinpricks into the Al foil seams form solid electrical bonds.

A high R-value is a good news / bad news issue. If there's power dissipation inside, the poor convective heat transfer of low-density air at altitude can result in overheating!

BTW, other than using a built-up method with 1/2" foam sheet, how do you get precise cavity bottoms in the foam using an Xacto knife?

73 de Mike W5VSI

paul.verhage@... wrote:
> I have made a traditional BalloonSat for comparison to my modifications. Here's
> what I have so far.
>
> I measured the weight of a 5" by 5" sheet of foamcore (3/16" thick) and of a 5" by 5"
> sheet of 1/2" (actually 9/16" thick) styrofoam. My digital scale measures to a
> precision of 2 grams. The foamcore weighs 10 grams and the 1/2" styrofoam weighs
> 8 grams. The bare 5" cube BalloonSat in foamcore weighs 58 grams and weighs 82
> grams with a minumum covering of aluminum tape (which is what I saw U of I and
> CU Boulder students use). The 5" cube BalloonSat made from 1/2" styrofoam
> weighs 62 grams complete, including the suspension tubes, dowels for locking the
> hatch on, and Uline tape.
>
> I plan to make two more tests this weekend. I cut 20" long by 2" wide strips of both
> materials. I plan to use them to measure the breaking strength of both materials. I'l
> also measure temperatures inside both 5" cubic BalloonSats. The styrofoam is
> about 2-1/2 times thicker, so I expect its R value to be 2-1/2 times greater. I'm not
> sure how the black tape on the styrofoam and the aluminum tape on the foamcore
> boxes will modify that.
>
> Paul
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>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1025. Re: [GPSL] BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-11 18:46:36 UTC
From: paul.verhage@boiseschools.org
Topic: 1021 Message: 1025

> A high R-value is a good news / bad news issue. If there's power
> dissipation inside, the poor convective heat transfer of low-density
> air at altitude can result in overheating!

The BalloonSats were launchiong only carry Hobo data loggers and cameras, so heat is not an issue. There's a large enough hole for the camera lens, that I imagine that it will keep temperatures under control. Since the weight of the BalloonSat is so low, I can't imagine a powerful payload inside. We're limited to 400 grams in Idaho.

> BTW, other than using a built-up method with 1/2" foam sheet, how do
> you get precise cavity bottoms in the foam using an Xacto knife?

I glued up a pallet that slide into a pocket in the BalloonSat. The pocket was made by gluing a sheet of styrofoam into the cube of the BalloonSat. For large spaces, I'm going to recommend using a few styrofoam peanuts as a space filler.

Paul

1026. Re: ORB<>EOSS EBBE 16Oct

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-14 04:35:03 UTC
From: Mike Manes
Topic: 1026 Message: 1026

Hi HArry,

Geez, after that recovery of ours on GPSL, I figgered youse guys were
FOND of mud :=}.

If you can get to a 70 cm EME station this weeekend, you might be able
to get into our hard-of-hearing crossband repeater from Wichita.
445.975 up / 147.555 down.

73 es GL de Mike W5VSI

Harry M wrote:
>
> Hi Mike,
>
> It is looking more & more like I will postpone until the 23rd.
> With the whole area around here being totally saturated in
> the past two days and more predicted for Thru & Fri, I think
> it prudent to postpone. I will make the decision Wed. :(
>
> 73
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
> ----- Original Message -----
> From: "Mike Manes" <manes@...>
> To: "Harry M" <hhm_74115@...>
> Cc: "Ralph Wallio, W0RPK" <wallio@...>
> Sent: Monday, October 11, 2004 2:57 PM
> Subject: Re: ORB<>EOSS EBBE 16Oct
>
> > Hi Harry,
> >
> > Yeah - we may decide to go lower as well - 115 mi S from Falcon and
> > into the Pinon Canyon MOA doesn't make for pleasant T&R event.
> >
> > 73 de Mike W5VSI
> >
> > Harry M wrote:
> > >
> > > Hi guys,
> > >

> > > We are only going to 40k or 50k so a VEBBE or a PEBBE would not be
> possible.
> > > We might even go lower than that if the predicted winds don't slow down.
> > >
> > > Maybe next time!
> > >
> > > 73
> > >
> > > -----
> > > Harry - KC5TRB - Tulsa
> > > Oklahoma Research Balloons
> > > http://members.cox.net/hhm_74775/orb/
> > > -----
> > >
> > > ----- Original Message -----
> > > From: "Mike Manes" <manes@...>
> > > To: "Ralph Wallio, W0RPK" <wallio@...>
> > > Cc: "Harry Mueller, KC5TRB" <hhm_74115@...>
> > > Sent: Saturday, October 09, 2004 1:32 PM
> > > Subject: Re: ORB<>EOSS EBBE 16Oct
> > >
> > > > HI Ralph & Harry,
> > > >
> > > > Unfortunately, EOSS-85 is flying exempt, and we don't have weight
> > > > budget for the TNC-based APRS module. We will have the crossband
> > > > voice repeater 445.975 up / 147.555 down w/ APRS beacons embedded.
> > > > The .555 xmtr is keyed up 100% duty.
> > > >
> > > > 73 de Mike W5VSI
> > > >
> > > > "Ralph Wallio, W0RPK" wrote:
> > > > >
> > > > > ORB and EOSS are scheduled to fly on the same day. Perhaps you
> could
> > > > > coordinate an EBBE attempt. -w0rpk
> > > > >
> > > > > --
> > > > Mike Manes manes@... Tel: 303-979-4899
> > > > "Things should be made as simple as possible, but not more so." A.
> > > > Einstein
> > > >
> > > >
> > > >
> > >
> > > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
> >
> >

> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1027. Re: ORB<>EOSS EBBE 16Oct

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-14 17:35:35 UTC
From: Mike Manes
Topic: 1026 Message: 1027

We've out here in the desert have learned NEVER to complain about
precip!

The prediction is moving N $ E, wid latest 105/94 from launch. So we
may go with the 3000 gm bag after all. That could hit upwards of 110k'

73 de Mike W5VSI

Harry M wrote:
>
> I'm gonna have to learn how ta speak Cajun with
> all the swamps we have now! :)
>
> If you get to 120,000 I might be able to get into the xband'r.
> I'll be listening.
>
> 73
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
> Subject: Re: ORB<>EOSS EBBE 16Oct
>
> > Hi HArry,
> >
> > Geez, after that recovery of ours on GPSL, I figgered youse guys were
> > FOND of mud :=}.
> >
> > If you can get to a 70 cm EME station this weeekend, you might be able
> > to get into our hard-of-hearing crossband repeater from Wichita.
> > 445.975 up / 147.555 down.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1028. Source for small electronic parts orders

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-22 22:14:44 UTC
From: Mark Conner
Topic: 1028 Message: 1028

Here's a place that's good for "common" parts when you don't want to pay $7 to ship a $3 part or don't have enough for a minimum order.

http://www.glitchbuster.com

I send an order to Glitchbuster on Sunday and got the parts today. He charges $1.85 per order for shipping (add'l for heavy or bulky items).

73 de Mark N9XTN

1029. Re: [GPSL] Source for small electronic parts orders

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-23 00:37:45 UTC
From: Zack Clobes
Topic: 1028 Message: 1029

I continue to have very good luck with Digikey in Minnesota. I can order on Sunday evening, and have it in hand (Kansas) by Wednesday morning via ground shipping. My shipping totals are usually in the $3.00 range for most orders.

They do have a ?$25? minimum order, but who can visit a candy store and not spend twenty bucks?

Just my two cents...
Zack Clobes, W0ZC
Project: Traveler

Mark Conner wrote:

>Here's a place that's good for "common" parts when you don't want
>to pay $7 to ship a $3 part or don't have enough for a minimum
>order.
>
>http://www.glitchbuster.com
>
>I send an order to Glitchbuster on Sunday and got the parts
>today. He charges $1.85 per order for shipping (add'l for heavy
>or bulky items).
>
>73 de Mark N9XTN
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>Yahoo! Groups Links
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1030. Re: [GPSL] Source for small electronic parts orders

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-23 05:40:54 UTC
From: wb8elk@aol.com
Topic: 1028 Message: 1030

I've used Glitchbusters and they are very responsive and also carry some hard to find parts...such as the MX-614. I use DigiKey for most of my orders and sometimes Mouser. BJMicro and MPJA (Marlin P Jones) are some favorite surplus houses for small parts as well.

- Bill WB8ELK

1031. HABITAT SkyLab another successful flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-24 05:08:03 UTC
From: Don Pfister
Topic: 1031 Message: 1031

As requested by the Johnson County Radio Amateurs Club, after their auction today, we launched another balloon flight from the Marshall Ensor Farm Museum (http://www.w9bsp-w9ua.org/ and http://kansasdar.org/olathe/Ensor.html). Due to the high ground winds, we launched a 350 gram balloon between 1 and 1:30 p.m.

It landed E of Lone Jack, MO about 45 ft. across 3 trees. After much work (several scrapes, sticks and other fun with stickers, thorns and tree bark - not to mention the laughter pains) we got all three packages and the parachute down.

As I remember our max altitude was around 42,000 ft. Our max speed was around 92 mph.

Personally, I had my hands full and didn't get any photos. As photos become available I'll post them to the web site(s).

Today was a first for us, in that, we had as many Rino trackers as we did APRS trackers. The Rinos sure make ground recovery very nice. With the Rino 120 on sale at Best Buy, it makes a very handy GPS receiver, with graphic map/display, and the FRS is just icing on the cake. ;-) A simple serial cable can tie into a D7/D700 or PC (or TNC) for GPS output, giving both Rino and APRS.

More info tomorrow,
Don KA0JLF

--

[Signature File]
Name=Don Pfister KA0JLF

Founder of HABITAT SkyLab
(High Altitude Basic Investigation Testing And Tracking)

1032. DeLorme Tripmate for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-24 20:12:52 UTC
From: Mark Conner
Topic: 1032 Message: 1032

I have a DeLorme Tripmate for sale for $30 postpaid. The unit has been modified to self-start as shown at http://wes.johnston.net/aprs/tripmate.htm .

With the jumper in place, the unit will run off 5-6V put on pin 9 of the serial plug. Or, the jumper can be disconnected and the unit will operate off 4 AA batteries for around 8-10 hours.

Prior to the modification, I had programmed the unit to turn off some of the GPS sentences to reduce the serial data going to my BS2SX I was using at the time for a balloon payload. The sentences enabled are GPGGA, GPRMC, and GPGSA. The main on you don't have is GPGSV, which shows the location of the GPS satellites in the sky and is not used for normal APRS work. I powered on the unit today and it's working fine.

73 de Mark N9XTN

1033. Re: [GPSL] HABITAT SkyLab another successful flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-25 21:58:55 UTC
From: Mike Manes
Topic: 1031 Message: 1033

Hi Don,

Congrats on yet another successful flight and recovery.

BTW, wots a "Rino"?

73 de Mike W5VSI
EOSS

Don Pfister wrote:
>
> As requested by the Johnson County Radio Amateurs Club, after their auction
> today, we launched another balloon flight from the Marshall Ensor Farm Museum
> (http://www.w9bsp-w9ua.org/ and http://kansasdar.org/olathe/Ensor.html). Due to
> the high ground winds, we launched a 350 gram balloon between 1 and 1:30 p.m.
>
> It landed E of Lone Jack, MO about 45 ft. across 3 trees. After much work
> (several scrapes, sticks and other fun with stickers, thorns and tree bark - not
> to mention the laughter pains) we got all three packages and the parachute down.
>
> As I remember our max altitude was around 42,000 ft. Our max speed was around 92
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>
> Personally, I had my hands full and didn't get any photos. As photos become
> available I'll post them to the web site(s).
>
> Today was a first for us, in that, we had as many Rino trackers as we did APRS
> trackers. The Rinos sure make ground recovery very nice. With the Rino 120 on
> sale at Best Buy, it makes a very handy GPS receiver, with graphic map/display,
> and the FRS is just icing on the cake. ;-) A simple serial cable can tie into a
> D7/D700 or PC (or TNC) for GPS output, giving both Rino and APRS.
>
> More info tomorrow,
> Don KA0JLF
>
> --
>
> [Signature File]
> Name=Don Pfister KA0JLF
>
> Founder of HABITAT SkyLab
> (High Altitude Basic Investigation Testing And Tracking)
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> Yahoo! Groups Links

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1034. Re: [GPSL] HABITAT SkyLab another successful flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-10-26 01:03:28 UTC
From: Don Pfister
Topic: 1031 Message: 1034

Mike Manes wrote:

> BTW, wots a "Rino"?

http://www.garmin.com/products/rino/
http://www.garmin.com/products/rino120/
http://www.garmin.com/products/rino130/

73
Don KA0JLF

1039. www.superlaunch.org

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-02 21:14:13 UTC
From: n9xtn@cox.net
Topic: 1039 Message: 1039

I now have a (presently bare-bones) GPSL 2005 page available at www.superlaunch.org. Thanks to Bill Brown WB8ELK for snagging this domain name. He has several other domains pointed here, such as www.gpsl.info. This page is actually hosted at the same place as www.nstar.org. As I get time I'll flesh this out some more. Let me know if you have additions or corrections.

You can use either domain in your publicity for GPSL 2005.

73 de Mark N9XTN

1040. Current 2004 ONSET altitude record

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-08 12:48:24 UTC
From: Ralph Wallio, W0RPK
Topic: 1040 Message: 1040

TVNSP now holds our top ONSET slot at 117,260ft. Standing by for more results.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1041. Recommendations for PCB layout software and board mfg

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-08 17:52:39 UTC
From: Mark Conner
Topic: 1041 Message: 1041

Apoligies if you get copies from all four lists.....

I've been poking around some websites for info on PCB layout software and companies that will manufacture boards for you based on Gerber or other file types. I'm looking for free software as I doubt I'll get into this far enough to make it worthwhile to pay much for it. Also, reports on your experience with board houses (good or bad) is appreciated.

73 de Mark N9XTN

1042. Re: [GPSL] Recommendations for PCB layout software and board mfg

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-08 18:01:25 UTC
From: paul.verhage@boiseschools.org
Topic: 1041 Message: 1042

Not quite the answer you're looking for....

I use Ares Lite by Labcenter electronics. It allows me to create a mask of the baord that I can shoot on my UV table. I then make my own boards. Ares is free for the 100 pin or fewer version.

I can design a board if you send me the scheamtic.

Paul (who is shooting boards with his class today)

> Apoligies if you get copies from all four lists.....
>
> I've been poking around some websites for info on PCB layout software and companies that will manufacture boards for you based on Gerber or other file types. I'm looking for free software as I doubt I'll get into this far enough to make it worthwhile to pay much for it. Also, reports on your
experience with board houses (good or bad) is appreciated.
>
> 73 de Mark N9XTN
>

1043. Re: [GPSL] Recommendations for PCB layout software and board mfg

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-08 18:17:47 UTC
From: wb8elk@aol.com
Topic: 1041 Message: 1043

My recommendations:

Board houses:
www.expresspcb.com

- They have a free PCB schematic capture and a free PCB layout program that works pretty well....$51 for 3 fixed sized boards.

Advanced Circuits www.4pcb.com

Excellent quality but on the expensive side

AP Circuits - www.apcircuits.com

- Nice quality and very fast and reasonable but you have to sand down the rough edges on the board.

PCB layout programs:

IVEX - get it before they go out of business...have a couple of nice specials now

Eagle

Schematic capture:

DesignWorks Pro...my favorite

- Bill WB8ELK

1044. PCB layout software and board mfg

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-08 19:05:44 UTC
From: K. Mark Caviezel
Topic: 1041 Message: 1044

Mark:
I know I for one have interest in this topic as well.
Please CC me, or post to the list(s) for what you find
out.

- KMC ng0x Denver

--- Mark Conner <n9xtn@...> wrote:

> Apoligies if you get copies from all four lists.....
>
> I've been poking around some websites for info on
> PCB layout software and companies that will
> manufacture boards for you based on Gerber or other
> file types. I'm looking for free software as I
> doubt I'll get into this far enough to make it
> worthwhile to pay much for it. Also, reports on
> your experience with board houses (good or bad) is
> appreciated.
>
> 73 de Mark N9XTN
>
>
> [Non-text portions of this message have been
> removed]
>
>

1045. Re: [GPSL] PCB layout software and board mfg

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-08 20:11:53 UTC
From: mgray@ess-us.com
Topic: 1041 Message: 1045

I've used Eagle CadSoft for a large number of projects:

http://www.cadsoftusa.com/

They offer a Windoze and Linux based tool. Freeware, Non-Profit, and commercial versions available. The freeware version is exactly the same as the full version, you are just limited to 2 layer boards of a certain size. No time limits. Great parts library. I also have a parts library that includes a number of components related to ballooning:

http://www.kd7lmo.net/tech_pcb_tools.html

For board houses, I like:

http://www.pcbfabexpress.com/

Very good quality and reasonable prices. Just e-mail them your Gerber files and you'll get back nice looking boards.

If you want to do the boards in your garage, here is a step-by-step guide:

http://www.kd7lmo.net/tech_pcb.html

73s de KD7LMO

On Mon, 8 Nov 2004, K. Mark Caviezel wrote:

>
> Mark:
> I know I for one have interest in this topic as well.
> Please CC me, or post to the list(s) for what you find
> out.
>
> - KMC ng0x Denver
>
>
> --- Mark Conner <n9xtn@...> wrote:
>
> > Apoligies if you get copies from all four lists.....
> >
> > I've been poking around some websites for info on
> > PCB layout software and companies that will
> > manufacture boards for you based on Gerber or other
> > file types. I'm looking for free software as I
> > doubt I'll get into this far enough to make it
> > worthwhile to pay much for it. Also, reports on
> > your experience with board houses (good or bad) is
> > appreciated.

> >
> > 73 de Mark N9XTN
> >
> >
> > [Non-text portions of this message have been
> > removed]
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> Yahoo! Groups Links
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1046. PCB design software and board houses

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-09 19:18:36 UTC
From: n9xtn@cox.net
Topic: 1046 Message: 1046

I replied to some of you regarding a couple of PCB manufacturers yesterday. Some of my confusion came from two places with similar sounding names and similar pricing for small quantities. www.expresspcb.com is what most of you mentioned. I got that mixed up with www.pcbexpress.com, which is linked with pcb123.com.

From looking over the websites some of you gave me, I think the best software for my purpose is either the ExpressPCB software/schematic capture (tied to ExpressPCB board ordering, or extra $$ to export a Gerber file) or the Cadsoft Eagle software (freeware version is fully functional for boards less than 80x100 mm). Have not yet tried either one.

Board houses with the best deals for small quantities are www.expresspcb.com and www.pcfabexpress.com. The former looks to be very fast if you can work on a fixed board size, while the latter offers more flexibility at competitive prices if you can wait a few days.

Thanks to everyone for their inputs!

73 de Mark N9XTN

1047. Re: [EOSS] PCB design software and board houses

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-11 04:20:37 UTC
From: Mike Manes
Topic: 1047 Message: 1047

Hi Mark,

I use perfboard for all my onesy balloon payload stuff. Much faster
and cheaper than going PC board, and a whole lot easier to modify.
For RF and noisy or sensitive stuff, I use the raw clad G-10 and
Dremel method.

Now, if I were faced with making more than a few of the things, then
I'd go the PCB route. But that ain't happened yet ...

73 de Mike W5VSI

n9xtn@... wrote:
>
> I replied to some of you regarding a couple of PCB manufacturers yesterday. Some of my confusion came from two places with similar sounding names and similar pricing for small quantities. www.expresspcb.com is what most of you mentioned. I got that mixed up with www.pcbexpress.com, which is linked with pcb123.com.
>
> >From looking over the websites some of you gave me, I think the best software for my purpose is either the ExpressPCB software/schematic capture (tied to ExpressPCB board ordering, or extra $$ to export a Gerber file) or the Cadsoft Eagle software (freeware version is fully functional for boards less than 80x100 mm). Have not yet tried either one.
>
> Board houses with the best deals for small quantities are www.expresspcb.com and www.pcfabexpress.com. The former looks to be very fast if you can work on a fixed board size, while the latter offers more flexibility at competitive prices if you can wait a few days.
>
> Thanks to everyone for their inputs!
>
> 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1048. Re: Suntracker XI Aborted and Announcement of Suntracker XII Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-11 04:30:00 UTC
From: Mike Manes
Topic: 1048 Message: 1048

Hi James,

Sorry to hear about yer losing a one-on-one with Ma Nature. Been there. EOSS's launch scrub criterion for any balloon is 10 kt, and 5 kt for a plastic balloon. If a plastic balloon even touches the ground during fill, kiss it off.

We've sorely regretted the times when we've dared to violate that criterion. That's why we try to launch as close to sunrise as possible.

73 de Mike W5VSI

"James R. Woodyard" wrote:
>
> The launch of Suntracker XI from Findlay, OH was aborted at 11:45
> a.m. on Saturday, November 6th. The measured average wind speeds were
> as large as 19.2 mph and there were gusts that could not be measured
> with our instrument. Three launch attempts were made. On the first
> attempt at 9:50 a.m. we were out in the field tethering the balloon and
> preparing for a 10:00 a.m. release when a hole about the size of a
> quarter was noticed in the balloon. The launch was aborted. Twenty
> minutes later we moving a balloon into position using "big hands" for
> tethering and the balloon burst. On the third attempt we bagged the
> balloon and carried it out of the barn and were tethering it when a hole
> was noticed and the balloon burst.
> Post flight analysis of two of the balloons showed a number of small
> teardrop shaped holes in the neighborhood of the equatorial plane of the
> balloon. The holes range in size from about 0.5 cm to 2 cm in length.
> The balloon manufacturer was contacted with the results of the analysis
> in an effort to determine the failure mechanism. The manufacturer
> indicated they did not know the reason for the appearance of the holes.
> Areas containing the holes will be cut from the balloons and sent along
> with serial numbers to the manufacturer.
> The launch of Suntracker XII will be from Findlay, OH and is
> scheduled for 10:00 a.m., Saturday, November 13th. Forecasts predict
> surface winds of 5 mph and a range of 114 miles. The coordinates of the
> predicted landing site are N40.3342 latitude and W81.6128 longitude,
> about half way between Coshocton and New Philadelphia, OH.
> Please inform me if you are interested in assisting with the launch,
> recovery, recording data on 2 m or video on 70 cm. The hardware,
> frequencies and antenna orientations are available at
> www.suntracker.eng.wayne.edu.
> Thanks for your interest and notify me if you would like your name
> removed from the launch announcement or know of others that would like
> to be added to it.
> Regards,

```
> Jim KC8MSY
> ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
> From: |
> James R. Woodyard /|
> Wayne State University / |\
> Department of Electrical & Computer / | \
> Engineering / | \
> 5050 Anthony Wayne / S2 | \
> Detroit, MI 48202-3902 / | \
> Office: (313) 577-3758 / | \
> Laboratory: (313) 577-5798 /-------| \
> FAX: (313) 577-1101 ----------|-------/
> E-Mail: woodyard@... | XTC /
> ~^~^~^~^~^~^~^~^~^~^~^~^~^~^~^~

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein
```

1049. NOAA/ARL READY servers going offline Friday night, back Sun or Mon

Yahoo group: GPSL (2002 — 2008)
Date: 2004-11-12 18:57:17 UTC
From: n9xtn@cox.net
Topic: 1049 Message: 1049

I got the following from the READY mailing list:

A total power shutdown (outage) at our NOAA offices is planned for Saturday, 20 November, beginning at 0800L and lasting 10 to 12 hours. This outage is to allow for mandatory maintenance on building systems. ARL will be turning off all computers (including the READY webserver) at the end of the business day on Friday, 19 November. If possible, the servers will be restored on Sunday, 21 November, otherwise they will become available at the beginning of the business day on Monday, 22 November.

==========

Those of you pulling wind forecast data from this site will want to get your data this afternoon before around 4pm EST.

73 de Mark N9XTN

1050. Re: [Balloons-Rockets] Cell Phones On Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-01 20:52:12 UTC
From: Mike Manes
Topic: 1050 Message: 1050

Thanks for that head's up, Tim! I has assumed that the prohibition on cell phones aboard commercial aircraft had to do with EMC issues with comm/nav systems. No idea that it extended to ALL airborne vehicles, private and unmanned included.

I do rather doubt that it has to do with hitting multiple cell sites from high altitude, however. This is more than likely a billing issue for the user; e.g., the US Army High Altitude Research Lab on the 14,250 ft summit of Pike's Peak, overlooking the city of Colorado Springs, was having some budget problems due to excessive roving charges when cell sites in Denver, Pueblo and Park County pick up their calls. Once a cell site has acquired a cell phone call, all the others that hear it ignore it.

The Feds have never been terribly forthcoming with rationale behind the published rulings. It takes a poring over of the Federal Register to glean any such info. But as stated, it appears that high-altitude cell phone payloads are a no-no.

I've cc'ed some private pilots who have worked with EOSS to see if their take on this is so Draconian.

73 de Mike W5VSI

Timothy J Salo wrote:
>
> > To: balloons-rockets@...
> > Subject: Re: [Balloons-Rockets] Cell Phones On Balloons
> >
> > From: ChrisV01
> > Date: Thu, 18 Nov 2004 22:56:31 EST
> > Subject: [Balloons-Rockets] Cell Phones On Balloons
> >
> > Are there any rules and regulations with respect to using a cell phone to
> > activate a system onboard a weather balloon.
> > [...]
> > Are such things legal from altitude?
>
> The title of Section 22.925 of the FCC regulations is titled
> "Prohibition on airborne operation of cellular telephones",
> which is probably a good summary of its contents (reproduced
> below). It even explicitly mentions balloons.
>
> I understand that the motivation for this prohibition
> is that the cell phone system assumes that a phone will be close
> to only a few cellular base stations at any one time. This

> assumption is violated when a cell phone is at altitude. I also
> suspect that cellular base stations probably try to keep most of
> their gain pretty horizontal. Of course, cell phones do, at least
> generally, work while airborne.
>
> Yet more trivia from,
>
> -tjs
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> - - - - - - - - -
>
> [Code of Federal Regulations]
> [Title 47, Volume 2, Parts 20 to 39]
> [Revised as of October 1, 1999]
> >From the U.S. Government Printing Office via GPO Access
> [CITE: 47CFR22.925]
>
> [Page 197]
>
> PART 22--PUBLIC MOBILE SERVICES--Table of Contents
>
> Subpart H--Cellular Radiotelephone Service
>
> Sec. 22.925 Prohibition on airborne operation of cellular telephones.
>
> Cellular telephones installed in or carried aboard airplanes,
> balloons or any other type of aircraft must not be operated while such
> aircraft are airborne (not touching the ground). When any aircraft
> leaves the ground, all cellular telephones on board that aircraft must
> be turned off. The following notice must be posted on or near each
> cellular telephone installed in any aircraft:
> ``The use of cellular telephones while this aircraft is airborne is
> prohibited by FCC rules, and the violation of this rule could result in
> suspension of service and/or a fine. The use of cellular telephones
> while this aircraft is on the ground is subject to FAA regulations.''
>
> http://www.access.gpo.gov/nara/cfr/waisidx_99/47cfr22_99.html
> _____
> Balloons-Rockets mailing list
> Balloons-Rockets@...
> http://mailman.qth.net/mailman/listinfo/balloons-rockets

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1051. GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 02:59:05 UTC
From: Mark Conner
Topic: 1051 Message: 1051

Hi everyone,

A bit of good news for me and my family, but it impacts the balloon flying next summer. Shari and I are expecting our second child next July. Near as we can tell now, the due date is near or just after the currently-scheduled GPSL weekend (July 22-24).

The latest weekend I'd feel comfortable with playing host to the GPSL here in Omaha is 4th of July weekend. We could have the symposium on Saturday, fly Sunday, with a backup fly date of Monday the 4th to minimize vacation days for people. Friday-Saturday-Sunday (1-3rd) is also OK. The previous weekend (June 24-26) is Field Day, so I don't suppose many will want to coincide with that. I'm also open to other dates like Memorial Day weekend.

This also means we won't be able to participate with the UNO Aerospace Education Workshop, as I believe they start July 11 or 18. I don't know yet what that will do with Dr. Larson's ability to obtain classroom space for us. With two other community colleges in the area I think we can get something for little or no cost.

For those groups planning to attend, please let me know your preferences on dates. I believe most of you preferred the July 4th weekend if we didn't have the tie-in with UNO. We can also arrange some alternate activities for spouses and children (zoo, Children's Museum, etc.) on the day of the symposium if some would like that.

I will update our website (www.superlaunch.org) with the new info once we decide on the date.

73 de Mark N9XTN

1052. Re: [GPSL] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 03:50:09 UTC
From: Harry M
Topic: 1051 Message: 1052

Good luck to you and yours on the to be "new born".

The consensus in the NE Oklahoma area is that if it is on a holiday weekend no one wil be able to go due to family gatherings.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

> Subject: [GPSL] GPSL 2005 date change

1053. Re: [GPSL] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 15:11:26 UTC
From: paul.verhage@boiseschools.org
Topic: 1051 Message: 1053

Congrats.

The 4th works for me. I may be able to arrange to come down and help UNO, also.

Paul

>
>
> Good luck to you and yours on the to be "new born".
>
> The consensus in the NE Oklahoma area is that if it is on a holiday
> weekend no one wil be able to go due to family gatherings.
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> -----
>
>
> > Subject: [GPSL] GPSL 2005 date change
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> Yahoo! Groups Links
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1054. Re: [GPSL] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 19:52:56 UTC
From: wb8elk@aol.com
Topic: 1051 Message: 1054

Just about any weekend in June and July will work for me. July 4th is fine.

- Bill WB8ELK

1055. Re: [GPSL] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 19:55:54 UTC
From: wb8elk@aol.com
Topic: 1051 Message: 1055

The weekend before Field Day is a good possibility as well.

- Bill WB8ELK

1056. Re: [GPSL] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 20:28:15 UTC
From: Harry M
Topic: 1051 Message: 1056

The entire month of June is not an option for ORB

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1057. Re: [GPSL] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-06 20:36:41 UTC
From: Zack Clobes
Topic: 1051 Message: 1057

I'm gone the weekend of 9 - 16 July and the first two weekends in August
aren't too good either. Non-holiday weekends tend to work better for
us, but I don't want to be too picky..

Zack Clobes, W0ZC
Project: Traveler

wb8elk@... wrote:

>Just about any weekend in June and July will work for me. July 4th is fine.
>
>- Bill WB8ELK
>
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>Yahoo! Groups Links
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1058. Re: [KNSP] GPSL 2005 date change

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-07 19:48:56 UTC
From: Mike Manes
Topic: 1058 Message: 1058

Hi Mark,

Well, I guess early congratulations are in order! Unfortunately, June and July are jam-packed as usual for EOSS. We have Space Grant flights scheduled for July 2/3 and July 16/17, and the MS-150 special event ties many of us up July 9/10. June 11/12 is another SGC flight, and I'll be overseas for that one, plus 6/18-19. FD is 6/25 and Dayton is 5/21-22.

So the only nearby dates before July 4th that we have open are June 4/5 and May 28/29. And I've not solicited the membership regarding what plans may already be in place those weekends.

Keep me posted - if EOSS can't make GPSL '05, then I'd like to know early on to put some flex in our SGC flight schedule for weather.

73 de Mike W5VSI
EOSS

Mark Conner wrote:
>
> Hi everyone,
>
> A bit of good news for me and my family, but it impacts the
> balloon flying next summer. Shari and I are expecting our second
> child next July. Near as we can tell now, the due date is near
> or just after the currently-scheduled GPSL weekend (July 22-24).
>
> The latest weekend I'd feel comfortable with playing host to the
> GPSL here in Omaha is 4th of July weekend. We could have the
> symposium on Saturday, fly Sunday, with a backup fly date of
> Monday the 4th to minimize vacation days for people.
> Friday-Saturday-Sunday (1-3rd) is also OK. The previous weekend
> (June 24-26) is Field Day, so I don't suppose many will want to
> coincide with that. I'm also open to other dates like Memorial
> Day weekend.
>
> This also means we won't be able to participate with the UNO
> Aerospace Education Workshop, as I believe they start July 11 or
> 18. I don't know yet what that will do with Dr. Larson's ability
> to obtain classroom space for us. With two other community
> colleges in the area I think we can get something for little or
> no cost.
>
> For those groups planning to attend, please let me know your
> preferences on dates. I believe most of you preferred the July

> 4th weekend if we didn't have the tie-in with UNO. We can also
> arrange some alternate activities for spouses and children (zoo,
> Children's Museum, etc.) on the day of the symposium if some
> would like that.
>
> I will update our website (www.superlaunch.org) with the new info
> once we decide on the date.
>
> 73 de Mark N9XTN
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1059. Re: Date change for GPSL 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-07 21:59:32 UTC
From: Mike Manes
Topic: 1059 Message: 1059

Hi Mark,

You should have my earlier email response. From that you'll learn that EOSS is already committed to a Colo Space Grant flight - Upward Bound native American HS students - EOSS-93&94 on Jul 2/3.

Dang! A lot of EOSS folks were looking forward to GPSL '05!

73 de Mike W5VSI
EOSS

mconner@... wrote:
>
> Mike,
>
> Did you see my message on the GPSL group about the need to change the date for the GPSL? Haven't heard from EOSS yet on alternatives. It seems 4th of July weekend is the date of choice so far (though ORB can't make it then).
>
> - Mark

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1060. Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-11 17:06:24 UTC
From: Ralph Wallio, W0RPK
Topic: 1060 Message: 1060

QSYing this round table to GPSL for a wider discussion ...

Responding to Mark's discussion of the potential of 12-18hr flights, I have a scheme that appears to work every time ... when flown as a thought experiment. Mileage for others may vary significantly. Think through this step by step to get a feel for how a controlled float can happen.

The configuration uses two balloons, a "MAIN" and a "BOOSTER". The MAIN is filled for close to equilibrium when loaded with payload but erroring toward very slightly negative lift. The BOOSTER is filled for a reasonable ascent rate. After launch and ascent to ~80kft, the BOOSTER is cut away leaving only the MAIN and payload which will be close to floating equilibrium.

At 80kft there is a +/-20kft buffer between MAIN burst at ~100kft and controlled airspace at 60kft. The BOOSTER only has enough lift to yield a reasonable ascent rate so it will not be close to burst at 80kft. Similarly, the MAIN only has enough lift for equilibrium so it will not burst unless it goes well above 100kft (we are talking about a 1500-2000g MAIN and 600-1000g BOOSTER depending on payload weight).

This configuration should be launched at dusk so there is no additional lift due to solar heating. With no loss of solar heating during the first 24hrs the only loss of lift from the MAIN will be gas migration through latex. This loss of lift will need to be offset by occasional ballast dumps. My alleged calculations show a 6-pound payload needs to include only ~16oz of dumped ballast to compensate for a significant cumulative loss of lift.

There will probably be some minor lift trimming shortly after the BOOSTER is cut away but the flight should be stable through the night. Then, roughly 12hrs later, sunrise will yield solar heating lift which will approximately offset loss of lift due to gas migration. Ballast dumping, an ounce at a time, can be used to control slow descent but only when approaching 60kft. Save that ballast.

Now we are at 24hrs and sunset. Loss of solar heating will slightly reduce lift so ballast will probably have to be dumped over night. How much? This is where your mileage may vary. Assuming altitude can be kept above 60kft the flight will last at least until sunrise some 36hrs after launch.

Now it is time to get real about crew fatigue. Crew shifts, say 4hrs, will be required to continuously monitor the flight and issue ballast dumping commands. All manner of things could go wrong so the chase/recovery crew will have to be ready to scramble through both nights (the proverbial "hot standby"). With sunrise on the 2nd morning crews will negotiate a time for flight termination. A MAIN cutdown command will be issued accordingly. Flight time of 40hrs seems reasonable for a 2-day weekend.

You want to go 3 days, another 24hrs? There may be enough ballast left to keep the flight above 60kft through another day and night. Regardless, the game is over when you have run out of ballast and can no longer keep the flight above 60kft.

Piece of cake, or in intelligence speak, a "slam dunk". So when to do this(?) Winds aloft in May and September have statistical advantage according to Mean Zonal Winds because during these months wind velocity 60-100kft approaches zero. There will be a little drift during ascent and descent but MAIN and payload will station-keep nicely while floating for the vast majority of the flight.

Payload design will have to include enough power for 48 (72?) hours. Bill Brown's 0.72-pound floater was designed and tested to stay on the air for 72+hrs so we know it can be done. My response to this in Solar Floater was to design and fabricate a solar charging system. I haven't made progress for a couple of years so I hope others take on the challenge.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1061. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-11 17:16:33 UTC
From: Zack Clobes
Topic: 1060 Message: 1061

We've experimented with this concept a little. We were successfully
able to glue an eye-bolt to the top of the "MAIN" balloon and attach the
"BOOSTER" above. That worked well.

The problem with our flight was that we were only using a 100g "BOOSTER"
and it didn't have enough net lift to provide a significant impact to
the system, in fact it was quite the opposite. In other words, the 600g
"MAIN" literally drug the "BOOSTER" behind it to altitude.

Zack Clobes, W0ZC
Project: Traveler

Ralph Wallio, W0RPK wrote:

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>Responding to Mark's discussion of the potential of 12-18hr flights, I have
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>This configuration should be launched at dusk so there is no additional lift
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>Save that ballast.
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1062. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-11 17:29:11 UTC
From: Mark Conner
Topic: 1060 Message: 1062

What kind of glue? For a duration flight, it would seem the glue would affect the balloon's longevity.

I wonder if the "booster" could be flown right next to the main? I'm not sure which is worse - a load line rubbing on the balloon, or two balloons rubbing each other?

I'm working on collecting parts for a short-distance remotely-controlled cutdown. The remote TX would be in the main payload, and the RX in the cutdown box. The BS2 (or other control mechanism) would then activate the cutdown. The "design" I have in mind can support two latches easily (4 with a bit more effort), and these could be hooked to separate NiCr wires to cut away either balloon as desired.

I need to look some pictures from GPSL 2004 to see how Don arranged his balloons. He's flying a balloon right now, BTW (KA0JLF-11, simplex rptr on 145.555).

73 de Mark N9XTN

----- Original Message -----
From: "Zack Clobes" <zclobes@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, December 11, 2004 11:16
Subject: Re: [GPSL] Controlled float of a latex flight

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> We've experimented with this concept a little. We were
> successfully
> able to glue an eye-bolt to the top of the "MAIN" balloon and
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> "BOOSTER"
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> the 600g
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>
> Zack Clobes, W0ZC
> Project: Traveler
>

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1063. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-11 17:44:15 UTC
From: Ralph Wallio, W0RPK
Topic: 1060 Message: 1063

Regarding balloons bouncing off of each other, see the image at http://www.amrad.pt/lancamento_cinelsat2.php. This configuration flew for 15hrs+ (15hrs is all they could document but the flight lasted a lot longer) and is currently #1.

- ralph w0rpk

1064. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-11 17:45:16 UTC
From: Zack Clobes
Topic: 1060 Message: 1064

I'm copying Don's repeater very roughly on a discone in the attic here in Hutchinson, KS.

The glue was some 3M stuff that was kind of tricky to get a hold of. We found some stuff that worked that the maintenance ddepartment at the airport was using for gluing weather stripping on airplane door seals. The glue remained pliable and was kind of interesting to work with.

As for cutdowns, remotely controlled RF cutdowns are the only way to go. We've flown our cutdown on several flights now using a Linx transmitter/receiver pair. The latest version of the board which hasn't yet flown uses two NiCh wires which are independently powered and controlled via a single uP. One of the wires is controlled via the RF link. The second wire is based on a timer (x minutes after power being applied to the uP). The whole system is powered from three lithium batteries - a coin cell for the uP, and one camera battery for each hotwire.

The uP waits for a specific series of digital pulses from the receiver. The main payload sends the cutdown command for about 1 second every 30 seconds for the duration once it's decided it wants to terminate flight. Termination logic can be based on anything you want - battery voltage, IAT, ascent rate, altitude, etc.

The camera batteries are mounted in battery holders (soldering to those batteries sucks). I'm using a low-voltage FET transistor for the driving force.

I also put a small piezo buzzer parallel across each of the hot wires. There's just enough voltage there to make some noise, and it provides an early warning (okay, about 2 seconds) if a cutter should fire while on the ground.

Zack

Mark Conner wrote:

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>73 de Mark N9XTN
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>Sent: Saturday, December 11, 2004 11:16
>Subject: Re: [GPSL] Controlled float of a latex flight
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1065. GPSL 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-11 23:21:02 UTC
From: Mark Conner
Topic: 839 Message: 1065

I think we're down to one of the three summer holiday weekends for our new GPSL 2005 date - Memorial Day, 4th of July, or Labor Day. I'm a little partial to 4th of July since that is the "traditional" weekend for GPSL, but I'm open to the other two.

EOSS already has a Space Grant flight scheduled for 4th of July, so they will be unable to participate directly. I'm hoping that flight could support a digipeater for APRS EBBE - at least that way they could participate remotely (as NSTAR did for GPSL 2003).

73 de Mark N9XTN

1066. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-13 03:57:56 UTC
From: Mike Manes
Topic: 1060 Message: 1066

Hi Ralph,

WE've tried pairs of balloons in order to achieve a controlled, moderate descent rate. Theoretically, the "ballast" balloon would also serve as a variable drag area "ballchute" to yield a near-constant descent rate.

Our results were less than successful. One problem was that if the two lift lines were attached to the the apex of the 'chute where the cutters reside, they'ed get terminally twisted during ascent, thus averting cutaway of the "lift" balloon. The second was premature bursting of the "ballast: balloon(s), presumably from friction on the "lift" balloon line. The latter was cured by running both balloons next to each other, but that didn't affect the twisting problem.

Finally, altho latex balloons are certainly cheaper than plastics, when one factors in the cost of a 24hr to several day chase and the risk of loss of the entire payload string, plus the risk of the whole experiment ending up as a derelict in civil airspace, why not simply do a zero-pressure plastic? That's what the pros use. To make multiday flights, ballast must be dumped to compensate for He lost during the day due to solar heating - again, following how manned gas balloons operate.

NOAA has successfully acheived a constant descent rate from 10 mbar using a 4" diameter dump valve as the nozzle on a 3000 gm latex carrying a 6-lb vaporsonde plus a 1-lb chute and cutdown controller. EOSS tried this scheme once, but the bag blew early, and the control cable to the vave operator at the bottom of the balloon got severely twisted in the lift line and broke.

I'm not opposed to innovation in this field, but I'd urge us to take a look

at the experience and science already out there.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1067. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-13 14:26:43 UTC
From: paul.verhage@boiseschools.org
Topic: 1060 Message: 1067

I would love to go on a chase like this. Would a Memorial Day weekend be the ideal time?

Paul

> QSYing this round table to GPSL for a wider discussion ...
>
> Responding to Mark's discussion of the potential of 12-18hr flights, I have
> a scheme that appears to work every time ... when flown as a thought
> experiment. Mileage for others may vary significantly. Think through this
> step by step to get a feel for how a controlled float can happen.
>
> The configuration uses two balloons, a "MAIN" and a "BOOSTER". The MAIN is
> filled for close to equilibrium when loaded with payload but erroring toward
> very slightly negative lift. The BOOSTER is filled for a reasonable ascent
> rate. After launch and ascent to ~80kft, the BOOSTER is cut away leaving
> only the MAIN and payload which will be close to floating equilibrium.
>
> At 80kft there is a +/-20kft buffer between MAIN burst at ~100kft and
> controlled airspace at 60kft. The BOOSTER only has enough lift to yield a
> reasonable ascent rate so it will not be close to burst at 80kft.
> Similarly, the MAIN only has enough lift for equilibrium so it will not
> burst unless it goes well above 100kft (we are talking about a 1500-2000g
> MAIN and 600-1000g BOOSTER depending on payload weight).
>
> This configuration should be launched at dusk so there is no additional lift
> due to solar heating. With no loss of solar heating during the first 24hrs
> the only loss of lift from the MAIN will be gas migration through latex.
> This loss of lift will need to be offset by occasional ballast dumps. My
> alleged calculations show a 6-pound payload needs to include only ~16oz of
> dumped ballast to compensate for a significant cumulative loss of lift.
>
> There will probably be some minor lift trimming shortly after the BOOSTER is
> cut away but the flight should be stable through the night. Then, roughly
> 12hrs later, sunrise will yield solar heating lift which will approximately
> offset loss of lift due to gas migration. Ballast dumping, an ounce at a
> time, can be used to control slow descent but only when approaching 60kft.
> Save that ballast.
>
> Now we are at 24hrs and sunset. Loss of solar heating will slightly reduce
> lift so ballast will probably have to be dumped over night. How much? This
> is where your mileage may vary. Assuming altitude can be kept above 60kft
> the flight will last at least until sunrise some 36hrs after launch.
>

> Now it is time to get real about crew fatigue. Crew shifts, say 4hrs, will
> be required to continuously monitor the flight and issue ballast dumping
> commands. All manner of things could go wrong so the chase/recovery crew
> will have to be ready to scramble through both nights (the proverbial "hot
> standby"). With sunrise on the 2nd morning crews will negotiate a time for
> flight termination. A MAIN cutdown command will be issued accordingly.
> Flight time of 40hrs seems reasonable for a 2-day weekend.
>
> You want to go 3 days, another 24hrs? There may be enough ballast left to
> keep the flight above 60kft through another day and night. Regardless, the
> game is over when you have run out of ballast and can no longer keep the
> flight above 60kft.
>
> Piece of cake, or in intelligence speak, a "slam dunk". So when to do
> this(?) Winds aloft in May and September have statistical advantage
> according to Mean Zonal Winds because during these months wind velocity
> 60-100kft approaches zero. There will be a little drift during ascent and
> descent but MAIN and payload will station-keep nicely while floating for the
> vast majority of the flight.
>
> Payload design will have to include enough power for 48 (72?) hours. Bill
> Brown's 0.72-pound floater was designed and tested to stay on the air for
> 72+hrs so we know it can be done. My response to this in Solar Floater was
> to design and fabricate a solar charging system. I haven't made progress
> for a couple of years so I hope others take on the challenge.
>
> TNX es 73 de Ralph Wallio, WØRPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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1068. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-13 16:45:54 UTC
From: Ralph Wallio, W0RPK
Topic: 1060 Message: 1068

Regarding use of "BALLAST" or "BALLCHUTE" balloons (Mike's terms), ISGC/ISU/HABET has flown a few successful missions using three balloons. Lift from a larger MAIN (my term) is supplemented by lift from two much smaller PIBAL balloons.

One smaller balloon is cut away at desired float altitude (15kft in their case). After science objectives are complete they cut away the second smaller balloon so, with negative lift, the MAIN, payload and parachute slowly descend to touchdown. They cut away the MAIN as necessary to limit track distance.

See discussion and pictures starting at http://cosmos.ssol.iastate.edu/HABET/h43/h43.html. Note that both small balloons are tied off substantially lower than the MAIN.

ISGC/ISU/HABET has been repeatedly successful with this configuration but their desired float altitude was only 15kft. I assume our collective desire would be to float at a much higher altitude, ~80kft as previously discussed. Depending on payload weight, our MAIN could be 1500-2000g and BOOSTER could be 600-1000g. This is not a BALLAST or BALLCHUTE configuration. We would be cutting away the MAIN to terminate flight and descending with a parachute.

Now on to Mike's discussion, point by point:

Cost of Plastic vs. latex:

Latex balloons are much cheaper than plastic balloons in at least three ways. First, plastic balloons, especially plastic balloons equipped for Zero-Pressure flight, cost much more than latex balloons with equivalent lift. A single Z-P balloon will cost almost 10x what a MAIN and BOOSTER would cost. This higher cost is partially because of much higher costs for fabrication material and labor and partially because Raven Industries' Engineered Film Division has no competition to beat. See http://www.ravenind.com/RavenCorporate/eng_films/high_alt_balloons_index.htm.

Second, Engineered Film will not sell Z-P plastic balloons to groups who have not demonstrated proficiency with plastic sounding balloons. I discuss this requirement, as stated by Mike Smith, in http://users.crosspaths.net/~wallio/Polyethylene.html. A group with no previous experience will have to purchase and fly multiple very expensive plastic sounding balloons before they are eligible to purchase an even more expensive Z-Ps.

Third, again as stated by Mike Smith, Engineered Film will require this group to acquire substantial liability insurance specific to flight of their plastic balloons. This insurance is available but at very high cost,

$1,500-2,000 when I gathered information for the discussion.

So the cost of flying plastic is substantially higher than flying latex. We have the equipment, methods and experience that would directly apply to a latex MAIN and BOOSTER configuration.

Twenty-four hour + chase:

Mean Zonal Winds tells us a long chase would not be required in May and September. A short chase of only a few 10's of miles would start only when the flight is terminated. At float altitude, 60-100kft, there would be very little movement. See http://users.crosspaths.net/~wallio/SF_MZW_12mo.gif to see what Mean Zonal Winds predicts for all 12 months of the year.

These May and September opportunities extend roughly a half month before and after, e.g., mid-April to min-June, but we have to wait for the right day. These are MEAN Zonal Winds. Actual winds on any given day could vary substantially from the mean. Deciding to fly a floater on a specific weekend, e.g. Memorial Day, will require us to accept the reality of winds aloft on that day (as well as surface wind, thunderstorms, et al.). Regardless, the chase will be short (but the chase crew needs to be on hot-standby during the entire flight).

Derelict in controlled airspace:

Flight termination mechanisms have to work regardless of whether we are cutting away a latex MAIN or zipping open (or inverting) a plastic Z-P. Either configuration could end up being derelict below 60kft in controlled airspace if our stuff fails. If we want to float a payload we have to accept the responsibility of using line cutters/burners that will work, probably with redundant methods.

NOAA's dump valve:

Their dump valve works but their goal is very different from ours. NOAA wants to descend very slowly which requires reduction of lift by controlled dumping of lifting gas.

Our goal is to ascend, float for 12-72hrs and reliably terminate flight. We have a great deal of collective successful experience ascending and terminating. What we are adding is a second latex balloon, a second cutaway mechanism and ballast dumping. Therefore a ballast dumping mechanism is our only relatively new required stuff. When I work through the numbers I find 16oz of dumpable ballast is reasonable for a 6-pound payload (including the ballast dumping mechanism).

We can't afford to do what the big guys do while being funded by government budgets (read, "taxes"). We can afford to fly floaters by using our successful experience with latex balloons.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/

Hubbert's Peak - The Mother of all Perfect Storms

1069. Re: [GPSL] Controlled float of a latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-13 16:58:38 UTC
From: paul.verhage@boiseschools.org
Topic: 1060 Message: 1069

As long as we can do a launch that I have vacation time for, I'd be happy to help with the chase and recovery. I like the latex balloon method not only because of the cost, but also for the fact that we just have to cut the balloon way, It will burst on its own when it doesn't have a payload. So it's one less thing to go wrong.

Paul

> Regarding use of "BALLAST" or "BALLCHUTE" balloons (Mike's terms),
> ISGC/ISU/HABET has flown a few successful missions using three balloons.
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> group to acquire substantial liability insurance specific to flight of their
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> the flight is terminated. At float altitude, 60-100kft, there would be very
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1070. More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-13 23:51:45 UTC
From: n9xtn@cox.net
Topic: 1070 Message: 1070

I would suggest a goal of a 10-12 hr flight (dawn-dusk) for our first attempt. This would lend itself to a long day but could be handled with the 'normal' chase procedures. The chase crew could hang out at the launch site until something happened (commanded or unexpected). Might be a good Field Day thing - the chasers could play FD while monitoring the balloon. Recovery before dark would be nice.

We could probably learn a lot by having an SSTV camera pointed upwards to see what happened after the cutdown commands were issued.

Depending on how things go, I may try to design a dual cutdown for NSTAR in the next month or two. This would ease the transition to a main/booster combo as the rest of the logistics are worked out. The 'dual' part of the cutdown could be tested without the need for two balloons - just put a unloaded string through the other nichrome and make sure it gets cut too.

Anyone got recommendations on DTMF decoders? Or valves for releasing alcohol ballast? I don't think I'd do a ballast system on the first flight, but have a main balloon that would have some minimal positive free lift and a booster that would add a margin of 3-4 lbs more free lift. Having positive lift after the booster was cut loose would give you an eventual natural burst should the cutdown not work.

With a ballast system, I think the main would have some negative lift by itself and we'd vent ballast to achieve a float condition, similar to what HABET did.

As Ralph alluded, our challenge here (mine, anyway) is to create a long-duration flight with latex balloons, not just a long-duration flight.

73 de Mark N9XTN

1071. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 00:46:55 UTC
From: Don KA0JLF
Topic: 1070 Message: 1071

I haven't kept up with the thread, so this may have
been covered.

One point I haven't seen covered yet is; it is my
understanding the latex balloons are designed to burst
after exposure to ultriviolet (?) rays or some light
band. I'm not sure the balloon would last that long
during daylight.

I know ours haven't. I think Pete's from a few years
ago is the longest I've heard of, about 8 hours?

FWIW,
Don KA0JLF
HABITAT SkyLab

--- n9xtn@... wrote:

=====

_____
Do you Yahoo!?
Yahoo! Mail - You care about security. So do we.
http://promotions.yahoo.com/new_mail

1072. Controlled float of a latex flight.....

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 02:17:08 UTC
From: K. Mark Caviezel
Topic: 1072 Message: 1072

> Subject: Controlled float of a latex flight

Ralph: I've always really liked the MAIN and BOOSTER concept, but I think a long flight as you describe may be very hard to obtain. One out-house data point: For some reason, a couple years ago, we filled a 600 g (?) balloon to about 5 lbs buoyancy. It carried a couple test-loads on a 50' tether, then was retired to inside the shop area, tied to a rack. The amount of lift, not measured, just felt with a hand pull, seemed significantly less every day and on day five the balloon became negatively buoyant. At altitude , the latex will be stretched a lot thinner, and with much more surface area, so I'd guess that the diffusion rate would be much more than the ~1 lb/day buoyancy loss rate noted above.

Flights above 60k feet are probably a good idea, but dont forget that a sub 12 lb, part 101 exempt balloon has no reporting requirements, and those 12+ lb balloons are entirely legal when you add a strobe and keep up on the required (2 hr interval or as required) position reporting chores.

The multi-balloon flights of the JP Aerospace group are like 5 mains and 5 boosters flying together, I imagine things get rather crowded when the balloons grow to a larger diameter when the JP sky station ascends.

Anyway, it occurs to me that all the technology required to milk a long duration flight out low cost latex balloon flight may easily outstrip the cost of a ballast dumping zero pressure balloon if 80k feet is the mission goal. I'd be happy to put together some low cost plastic balloons of a modest size for the experienced amateur community, particularly if they want to fly them with ballast dumping. I've got some very nice 10k cubic foot balloons on the shelf that could find a new home for $200 each, and -probably after the first of the year- I could put together some 'fun bags' in the 2000 to 5000 cubic foot range and make them available to experienced amateurs for less.

- KMC ng0x Denver
(contemplating a black/clear 'striped' solar balloon

for GPSL)

1073. low cost simple latex concept

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 09:06:39 UTC
From: K. Mark Caviezel
Topic: 1073 Message: 1073

Ralph:
Respectfully, I think you're off a bit on your "10X" cost increase estimate for the jump from latex to poly. I've been quoted $200 to $300 for a 3000 gram balloon, definately in the same price range as a smaller poly balloon. The FAA does not require insurance, but Raven does, so to avoid the cost of that, it looks like not dealing with Raven may be the order of the day. Both my own group "ES-OS" and the Gross Pointe academy efforts have demonstrated real amatuer poly flights, with roll your own poly balloons. I can assure you that the "ES-OS" efforts don't total 10X of a bare-bones latex flight, except possibly the last flight with it's 152 lb test payload. But that's another story....

Anyway, if you really really don't want to use poly balloons, here is something that may be of interest: 6 lb payload, for example, with two 1200 gram balloons of 5.5 to 5.9 lbs buoyancy each. Fly em up on a tandem bridal. One will break, (hopefully retaining all the shards) and a slow descent will ensue. A ballast dropping system can be modulated to zero out the descent rate. Voila, neutral buoyancy long duration flight. This scheme negates the need for the cut away system, maintains FAA pt 101 exempt status, and could yeild a long duration flight.

- KMC ngox Denver

1074. Re: [GPSL] low cost simple latex concept

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 09:55:59 UTC
From: wb8elk@aol.com
Topic: 1073 Message: 1074

I've done several 2 and 3 balloon flights some years ago.....the 3 balloon flight was interesting in that 2 of the balloons burst but one remained and provided a slow (and almost linear) descent...the balloon was actually visible standing above the tree line when we approached the landing area. I had a TV camera pointing up at them and they never really bounced into each other even though they were attached to one point on the flight train. the balloon with the lightest lift tended to fly below the plane of the parachute as it ascended.

I've toyed with flying 2 or 3 balloons and dropping ballast out after one or two of them burst and that should work just fine. The longest flight times would be an evening launch that stretched into the following day....my only concern would be the effects of UV on the latex for an extended flight during daylight...not sure if latex would survive for more than one day.

I'm working on a simple valve that I will probably fly in January or February to try to vent enough helium in a latex balloon to cause it to stop ascending....I will probably have to carry some ballast in order to refine the equilibrium point....especially if it keeps flying after sunset.

One fellow at a radiosonde site who has flown thousands of balloons told me this simple trick to achieve an extended flight.....put a wood plug in the neck of the balloon with small grooves carved in the wood....this allows a slow leak during flight....he says this works well and has achieved very long flights this way with a latex balloon.....you could achieve the same thing with a small hole in the middle of the wooden stopper....the trick would be to see just how large of a hole works to achieve a reasonable max altitude before it starts descending again...I imagine a few flights with different sized holes would be interesting to see how this works.

I've also done quite a number of polyethylene (zero pressure) balloons....from both the old Winzen and Raven....the biggest problem with those type is to figure out a way to cut the balloon down so it doesn't become a derelict....some schemes I've seen in that regards is to have a vent on the top of the balloon (which can also be used to control altitude), putting a weight on the top so that when the payload is dropped the balloon inverts and dumps helium (I saw them once use a rolled up newspaper for the weight).....or have a nichrome wire embedded in the plastic to actually burn a hole in the balloon (although I've observed static electricity actually cause this cutdown mechanism to fail before liftoff). These commercial balloons have become quite expensive now....one of our Rockoon flight's balloons cost many thousands of dollars...but fortunately we had a large membership and some large donations....but it was one of our major expenses....not to mention the hefty insurance cost.

They basically build these balloons by use of a person using a rolling heat sealer and walking along the balloon gore seam from one end to the other of a very very long warehouse....but these were for the balloons with heavy

payloads....for our lightweight stuff, the balloon doesn't need fancy and expensive load tapes in the seams and can be constructed in a garage or barn. Small tears or holes can be patched by a special low temperature tape (I have a roll from Raven for just such a purpose)....but have found out the hard way that regular tape will not work when it gets really cold.

- Bill WB8ELK

1075. Re: [GPSL] low cost simple latex concept

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 16:55:39 UTC
From: n9xtn@cox.net
Topic: 1073 Message: 1075

> Anyway, if you really really don't want to use poly
> balloons, here is something that may be of interest:
> 6 lb payload, for example, with two 1200 gram balloons
> of 5.5 to 5.9 lbs buoyancy each. Fly em up on a
> tandem bridal.

Can you define "tandem bridle" a bit more? Will the balloons be in contact with each other at full expansion?

>One will break, (hopefully retaining
> all the shards) and a slow descent will ensue. A
> ballast dropping system can be modulated to zero out
> the descent rate. Voila, neutral buoyancy long
> duration flight. This scheme negates the need for the
> cut away system, maintains FAA pt 101 exempt status,
> and could yeild a long duration flight.

If they are in close proximity, and one bursts at its ultimate limit while the other is close to it (this is likely with equal inflation and equal size), wouldn't one balloon popping cause the other to pop, either through the latex snapping or just the shock of taking up more load?

For cost comparisons on poly v. latex for this concept, we should stick with 300-1500 gram latex balloons, which are $25-75. I don't think anyone is thinking of using a 3000g balloon for this concept.

One of the advantages of not flying a cutdown is that you get your balloon back to see how well it shredded. I would say a rough average for me is that I get about 60% back. It's been as low as ~5% (the neck and a few fragments) and the highest was 80% of a 1500g.

73 de Mark N9XTN

1076. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 21:12:29 UTC
From: Ralph Wallio, W0RPK
Topic: 1070 Message: 1076

Perhaps the following will give us more understanding of floating flights.

Floater track prediction for ARRL Field Day based on Mean Zonal Winds
---
Ascent at 1000ft/min: 22mi east
Ascent at 500ft/min: 42mi east
Float at 80kft: 18mph west
Descent: 8mi east

Ascent at 1000ft/min and float lasting sunrise to sunset, 05:45 to 20:45 CDT (15hrs - which, with ascent and descent intervals, would break our #1 record of 15:19), would accumulate a track 22miE + 15x18miW + 8miE = 240miW.

Floater track prediction for minimal winds at 80kft during May and September
---
Ascent at 1000ft/min: 34mi east
Float at 80kft: 0mph
Descent : 12Mi east

Ascent at 1000ft/min and float lasting sunrise to sunset, 06:00 to 20:30 CDT (14.5hrs - which, with ascent and descent intervals, might break our #1 record of 15:19), would accumulate a track 34miE + 0 + 8miE = 42miE.

Hence the importance of flying floaters during May and September (unless the objective is a very long track and chase).

Analysis based on density and temperature values from U.S. Standard Atmosphere allows size of the MAIN and BOOSTER to be selected so they are not close to burst at desired FLOAT altitude. An example could be a 6-pound payload plus 1-pound of parachute, et al., using a 1500g MAIN and 1000g BOOSTER to yield the following:

1500g MAIN fill for equilibrium: 188ft^3 He
Expansion at 80kft: 70%
Burst: 103kft

1000g BOOSTER fill for 1000ft/min: 151ft^3 He
Expansion at 80kft: 78%
Burst: 96kft (after release)

At 80kft, neither balloon will be stressed close to bursting. There is reasonable history that indicates these two balloons could be tied off at the same height thereby allowing them to bounce against only each other as they expand.

If a ballast dumping mechanism, including ballast, is part of the 6-pounds (my given payload weight), then 1-pound of dumpable ballast would allow a

total of 840ft/min adjustment in ascent rate. A reduction to 7oz of dumpable ballast would allow a total of 540ft/min adjustment in ascent rate.

I select 7oz because I have designed a simple ballast dumping mechanism using a bladder-type baby bottle and a small pump (see http://users.crosspaths.net/~wallio/Ballast.JPG). The bladder allows a completely closed mechanism that will not leak fluid in any orientation. This mechanism weighs 1-pound with fluid.

Folks that are inclined to design and fabricate a controllable lifting gas valve may be interested in (or at lease amused by) my attempt to develop a valve that fits into the neck of a 2000g or 3000g balloon (see http://users.crosspaths.net/~wallio/Valve1.jpg) This design works on my bench. I can repeatedly open it 0-100% and close it with no mechanical problems. On the bench at room temperature the valve holds anticipated balloon pressure differential indefinitely (or over night which ever comes first).

When chilled to lower than -40dC (the limit of my accurate temperature measurement which was pinned) the valve worked repeatedly save for one minor flaw. After opening and closing, the valve seat leaks. I have not found a material that stops this leak in the temperature extremes of float altitude. This failure ultimately pushed me toward the MAIN and BOOSTER concept.

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1077. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 21:39:32 UTC
From: paul.verhage@boiseschools.org
Topic: 1070 Message: 1077

A flight during Field Day would be interesting. It's during vacation, so it's convienent. The chase of 240 miles is not excessive for a summer vacation drive. I would like to see us do something for Field Day and heavily advertise it. I'd recommend making a QSL card for the flight for those who contact us through the balloon. If we can add more weight, an opened repeater and SSTV would be neat also. Since hams are already out where the public can see them, we have help getting the word out about the flight to the public. The longer drift would help open the event to more people.

Paul

>
> Perhaps the following will give us more understanding of floating flights.
>
> Floater track prediction for ARRL Field Day based on Mean Zonal Winds
> ---
> Ascent at 1000ft/min: 22mi east
> Ascent at 500ft/min: 42mi east
> Float at 80kft: 18mph west
> Descent: 8mi east
>
> Ascent at 1000ft/min and float lasting sunrise to sunset, 05:45 to 20:45 CDT
> (15hrs - which, with ascent and descent intervals, would break our #1 record
> of 15:19), would accumulate a track 22miE + 15x18miW + 8miE = 240miW.
>
> Floater track prediction for minimal winds at 80kft during May and September
> ---
> Ascent at 1000ft/min: 34mi east
> Float at 80kft: 0mph
> Descent : 12Mi east
>
> Ascent at 1000ft/min and float lasting sunrise to sunset, 06:00 to 20:30 CDT
> (14.5hrs - which, with ascent and descent intervals, might break our #1
> record of 15:19), would accumulate a track 34miE + 0 + 8miE = 42miE.
>
> Hence the importance of flying floaters during May and September (unless the
> objective is a very long track and chase).
>
>
>
> Analysis based on density and temperature values from U.S. Standard
> Atmosphere allows size of the MAIN and BOOSTER to be selected so they are
> not close to burst at desired FLOAT altitude. An example could be a 6-pound
> payload plus 1-pound of parachute, et al., using a 1500g MAIN and 1000g
> BOOSTER to yield the following:
>

> 1500g MAIN fill for equilibrium: 188ft^3 He
> Expansion at 80kft: 70%
> Burst: 103kft
>
> 1000g BOOSTER fill for 1000ft/min: 151ft^3 He
> Expansion at 80kft: 78%
> Burst: 96kft (after release)
>
> At 80kft, neither balloon will be stressed close to bursting. There is
> reasonable history that indicates these two balloons could be tied off at
> the same height thereby allowing them to bounce against only each other as
> they expand.
>
>
>
> If a ballast dumping mechanism, including ballast, is part of the 6-pounds
> (my given payload weight), then 1-pound of dumpable ballast would allow a
> total of 840ft/min adjustment in ascent rate. A reduction to 7oz of
> dumpable ballast would allow a total of 540ft/min adjustment in ascent rate.
>
> I select 7oz because I have designed a simple ballast dumping mechanism
> using a bladder-type baby bottle and a small pump (see
> http://users.crosspaths.net/~wallio/Ballast.JPG). The bladder allows a
> completely closed mechanism that will not leak fluid in any orientation.
> This mechanism weighs 1-pound with fluid.
>
> Folks that are inclined to design and fabricate a controllable lifting gas
> valve may be interested in (or at lease amused by) my attempt to develop a
> valve that fits into the neck of a 2000g or 3000g balloon (see
> http://users.crosspaths.net/~wallio/Valve1.jpg) This design works on my
> bench. I can repeatedly open it 0-100% and close it with no mechanical
> problems. On the bench at room temperature the valve holds anticipated
> balloon pressure differential indefinitely (or over night which ever comes
> first).
>
> When chilled to lower than -40dC (the limit of my accurate temperature
> measurement which was pinned) the valve worked repeatedly save for one minor
> flaw. After opening and closing, the valve seat leaks. I have not found a
> material that stops this leak in the temperature extremes of float altitude.
> This failure ultimately pushed me toward the MAIN and BOOSTER concept.
>
> TNX es 73 de Ralph Wallio, WØRPK
> wallio@crosspaths.net
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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1078. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 22:30:09 UTC
From: Harry M
Topic: 1070 Message: 1078

I don't remember if it was after I got back from GPSL 2004 or our next flight
that I ran a prediction with a 12 hr float @ 80,000. The payload would've ended up near Pueblo, Colorado from Tulsa.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1079. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 23:09:22 UTC
From: mgray@ess-us.com
Topic: 1070 Message: 1079

If the long duration flight takes to the air, I have a light weight (2 pound) HF beacon package. It can send a PSK-31 message, 300 bps FSK APRS message, or 1200 bps A-FSK APRS message on a time schedule on any frequency 1 - 60 MHz. Tested down to -40 degC and flown on multiple flights. It would be good for over the horizon tracking.

On Tue, 14 Dec 2004 paul.verhage@... wrote:

> A flight during Field Day would be interesting. It's during vacation, so it's convienent.
> The chase of 240 miles is not excessive for a summer vacation drive. I would like to
> see us do something for Field Day and heavily advertise it. I'd recommend making a
> QSL card for the flight for those who contact us through the balloon. If we can add
> more weight, an opened repeater and SSTV would be neat also. Since hams are
> already out where the public can see them, we have help getting the word out about
> the flight to the public. The longer drift would help open the event to more people.
>
> Paul
>
> >
> > Perhaps the following will give us more understanding of floating flights.
> >
> > Floater track prediction for ARRL Field Day based on Mean Zonal Winds
> > ---
> > Ascent at 1000ft/min: 22mi east
> > Ascent at 500ft/min: 42mi east
> > Float at 80kft: 18mph west
> > Descent: 8mi east
> >
> > Ascent at 1000ft/min and float lasting sunrise to sunset, 05:45 to 20:45 CDT
> > (15hrs - which, with ascent and descent intervals, would break our #1 record
> > of 15:19), would accumulate a track 22miE + 15x18miW + 8miE = 240miW.
> >
> > Floater track prediction for minimal winds at 80kft during May and September
> > ---
> > Ascent at 1000ft/min: 34mi east
> > Float at 80kft: 0mph
> > Descent : 12Mi east
> >
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> > (14.5hrs - which, with ascent and descent intervals, might break our #1
> > record of 15:19), would accumulate a track 34miE + 0 + 8miE = 42miE.
> >
> > Hence the importance of flying floaters during May and September (unless the
> > objective is a very long track and chase).

> >
> >
> >
> > Analysis based on density and temperature values from U.S. Standard
> > Atmosphere allows size of the MAIN and BOOSTER to be selected so they are
> > not close to burst at desired FLOAT altitude. An example could be a 6-pound
> > payload plus 1-pound of parachute, et al., using a 1500g MAIN and 1000g
> > BOOSTER to yield the following:
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> > 1500g MAIN fill for equilibrium: 188ft^3 He
> > Expansion at 80kft: 70%
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> > At 80kft, neither balloon will be stressed close to bursting. There is
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> > valve may be interested in (or at lease amused by) my attempt to develop a
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> > measurement which was pinned) the valve worked repeatedly save for one minor
> > flaw. After opening and closing, the valve seat leaks. I have not found a
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1080. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-14 23:24:55 UTC
From: Mark Conner
Topic: 1070 Message: 1080

I think we could choose a float altitude other than 80 kft that would be as close to zero as possible. Any particular day could yield 20 mph winds at 80 kft, whether May, September, or June. While the zonal mean is near zero, I would expect the standard deviation is 10 mph or better, and there could be north/south components that won't show in the zonal means.

Ideally, we'd choose a date based on actual observations and short-range forecasts, but this makes the logistics of arranging chase teams more difficult. So instead we'll choose a date well in advance and either fly a floater if things are suitable or a standard flight if not.

I'd rather have some net wind anyway. With our luck, we'd hover over a location for hours on end that would produce a landing smack in the middle of Omaha if we terminated the flight.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
To: "GPSL" <GPSL@yahoogroups.com>
Sent: Tuesday, December 14, 2004 15:12
Subject: Re: [GPSL] More on long-duration latex flight

>
> Perhaps the following will give us more understanding of
> floating flights.
>
> Floater track prediction for ARRL Field Day based on Mean Zonal
> Winds
> ---
> Ascent at 1000ft/min: 22mi east
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> Ascent at 1000ft/min and float lasting sunrise to sunset, 05:45
> to 20:45 CDT
> (15hrs - which, with ascent and descent intervals, would break
> our #1 record
> of 15:19), would accumulate a track 22miE + 15x18miW + 8miE =
> 240miW.
>
> Floater track prediction for minimal winds at 80kft during May
> and September

> ---
> Ascent at 1000ft/min: 34mi east
> Float at 80kft: 0mph
> Descent : 12Mi east
>
> Ascent at 1000ft/min and float lasting sunrise to sunset, 06:00
> to 20:30 CDT
> (14.5hrs - which, with ascent and descent intervals, might
> break our #1
> record of 15:19), would accumulate a track 34miE + 0 + 8miE =
> 42miE.
>
> Hence the importance of flying floaters during May and
> September (unless the
> objective is a very long track and chase).
>
>

1081. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-15 00:01:25 UTC
From: paul.verhage@boiseschools.org
Topic: 1070 Message: 1081

> I'd rather have some net wind anyway. With our luck, we'd hover
> over a location for hours on end that would produce a landing
> smack in the middle of Omaha if we terminated the flight.

It also results in a lot of ground photos of the same thing.

Paul
(I like to chase)

1082. Re: [GPSL] More on long-duration latex flight - Balloon Mail

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-15 02:08:27 UTC
From: wb8elk@aol.com
Topic: 1082 Message: 1082

One of the original Von Braun team of German rocket scientists here locally showed a film of an intriguing concept that they experimented with during the 30s....it was called RocketMail....they'd shoot rockets with mail to the next town, they even issued special stamps....I'd like to try this between our balloon groups with a "Balloon Mail" floater....a message in a bottle that "floats" in the stratosphere.

Around turnaround....a few weeks in May and also September, the lightest winds tend to be around 65k feet and so you could stay pretty much in your local area with a long duration flight during these times...this is also when the big boys in Palestine, TX and in New Mexico like to fly their large payloads to minimize ground travel. However during the rest of the year, the Balloon Mail concept would be very interesting to try.

In winter, a floater from the West would make a nice trip across country to several downrange balloon groups, in fact you could have several small packages (similar to Paul Verhage's parachuting Mr. Potato Head) and drop them off by a cutdown command over several waiting groups to the East....in the Summer, if you're up over 80k feet you could send them west to awaiting groups...particularly July and August.

Pete Sias's floater that went from Kansas to Ohio a few years ago actually landed within 15 miles of my parent's farm in Ohio...that's pretty close for BalloonMail.

I do Balloon Mail on a smaller scale by dropping payloads on the Atlanta Balloonatics (about 100 to 150 miles to my east) since that seems to be the general trend from October to April here.

Next July or August, I'm going to try to send a payload to ORB in Oklahoma...about 530 miles due west of here.

As to multiple balloon all bursting when one goes....my system with 3 balloons had a second balloon burst as a result of the first one bursting....but the one that was lightly filled and not near burst diameter survived...so the key here is to valve off helium before they reach max altitude or have a balloon burst when the other one(s) still are not very inflated. I was surprised to find that the balloons didn't bounce into each other very often during the flight even though they were next to each other at liftoff.

- Bill WB8ELK

1083. Re: [GPSL] More on long-duration latex flight - Balloon Mail

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-15 14:25:24 UTC
From: paul.verhage@boiseschools.org
Topic: 1082 Message: 1083

> Next July or August, I'm going to try to send a payload to ORB in
> Oklahoma...about 530 miles due west of here.

Harry, I may try to visit during that flight. It sounds like a fun project.

Paul

1084. Re: [GPSL] More on long-duration latex flight - Balloon Mail

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-16 14:40:43 UTC
From: Harry M
Topic: 1082 Message: 1084

It does sound like a fun project.
We will leave a light on for ya! :)

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

> > Next July or August, I'm going to try to send a payload to ORB in
> > Oklahoma...about 530 miles due west of here.

1085. Re: [GPSL] low cost simple latex concept

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-17 07:24:13 UTC
From: Mike Manes
Topic: 1073 Message: 1085

Hi MArk,

Airflow appears to keep the tandem balloons slightly separated in ascent -- but all bets are off regarding mutual burst.

Re keeping the shards: parachutes don't generate much drag when they're flying sideways. This is one of the more important causes of the the Dreaded Post Burst Chaos. In the worst case, one of the payloads will have more drag than the sideways 'chute and will end up flying ABOVE the 'chute (we have fotos of the 'chute BELOW the horizon!).

The best time to get shut of the shards is IMMEDIATELY at burst, if not sooner. If you wait even 10 sec, the shards can get into the 'chute shroud lines.

PS: I have lotsa latex shards that I'll be glad to send you.

73 de Mike W5VSI

n9xtn@... wrote:
>
> > Anyway, if you really really don't want to use poly
> > balloons, here is something that may be of interest:
> > 6 lb payload, for example, with two 1200 gram balloons
> > of 5.5 to 5.9 lbs buoyancy each. Fly em up on a
> > tandem bridal.
>
> Can you define "tandem bridle" a bit more? Will the balloons be in contact with each other at full expansion?
>
> >One will break, (hopefully retaining
> > all the shards) and a slow descent will ensue. A
> > ballast dropping system can be modulated to zero out
> > the descent rate. Voila, neutral buoyancy long
> > duration flight. This scheme negates the need for the
> > cut away system, maintains FAA pt 101 exempt status,
> > and could yeild a long duration flight.
>
> If they are in close proximity, and one bursts at its ultimate limit while the other is close to it (this is likely with equal inflation and equal size), wouldn't one balloon popping cause the other to pop, either through the latex snapping or just the shock of taking up more load?
>
> For cost comparisons on poly v. latex for this concept, we should stick with 300-1500 gram latex balloons, which are $25-75. I don't think anyone is thinking of using a 3000g

balloon for this concept.
>
> One of the advantages of not flying a cutdown is that you get your balloon back to see how well it shredded. I would say a rough average for me is that I get about 60% back. It's been as low as ~5% (the neck and a few fragments) and the highest was 80% of a 1500g.
>
> 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1086. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-17 07:30:34 UTC
From: Mike Manes
Topic: 1070 Message: 1086

In the summer, that is. In the winter, try Memphis TN!

73 de Mike W5VSI

Harry M wrote:
>
> I don't remember if it was after I got back from GPSL 2004 or our next
> flight
> that I ran a prediction with a 12 hr float @ 80,000. The payload would've
> ended up near Pueblo, Colorado from Tulsa.
>
> -----
> Harry - KC5TRB - Tulsa
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
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Einstein

1087. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-17 07:43:57 UTC
From: Mike Manes
Topic: 1070 Message: 1087

Hi MArk,

EOSS did an 8-hr ZP flight with Norm Kjome for the USAFA 'way back. Float hit right at 100K', and the balloon took on a 200-mi long, oval course at altitude during the day, and returned to nearly the same spot in the sky where it entered float, 8 hrs later. Then we cut it down. So yeah, it's tough to predict a long-duration trajectory, and foolish to assume constant winds aloft for the duration.

73 de Mike W5VSI

Mark Conner wrote:
>
> I think we could choose a float altitude other than 80 kft that
> would be as close to zero as possible. Any particular day could
> yield 20 mph winds at 80 kft, whether May, September, or June.
> While the zonal mean is near zero, I would expect the standard
> deviation is 10 mph or better, and there could be north/south
> components that won't show in the zonal means.
>
> Ideally, we'd choose a date based on actual observations and
> short-range forecasts, but this makes the logistics of arranging
> chase teams more difficult. So instead we'll choose a date well
> in advance and either fly a floater if things are suitable or a
> standard flight if not.
>
> I'd rather have some net wind anyway. With our luck, we'd hover
> over a location for hours on end that would produce a landing
> smack in the middle of Omaha if we terminated the flight.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Ralph Wallio, W0RPK" <wallio@...>
> To: "GPSL" <GPSL@yahoogroups.com>
> Sent: Tuesday, December 14, 2004 15:12
> Subject: Re: [GPSL] More on long-duration latex flight
>
> >
> > Perhaps the following will give us more understanding of
> > floating flights.
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> > Floater track prediction for ARRL Field Day based on Mean Zonal
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> > 42miE.
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> > Hence the importance of flying floaters during May and
> > September (unless the
> > objective is a very long track and chase).
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1088. Re: [GPSL] More on long-duration latex flight

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-17 07:45:48 UTC
From: Mike Manes
Topic: 1070 Message: 1088

If it weren't for wind, we wouldn't need a chase team!
73 de Mike W5VSI

paul.verhage@... wrote:
>
> > I'd rather have some net wind anyway. With our luck, we'd hover
> > over a location for hours on end that would produce a landing
> > smack in the middle of Omaha if we terminated the flight.
>
> It also results in a lot of ground photos of the same thing.
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> Paul
> (I like to chase)
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> Yahoo! Groups Links
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1089. "tandem bridle"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-17 23:19:42 UTC
From: K. Mark Caviezel
Topic: 1089 Message: 1089

> Can you define "tandem bridle" a bit more?
Will the balloons be in contact with each other at
full expansion?

For Mark Connor:
oooops, I chose the wrong words for what I was trying
to describe. Maybe 'dually bridle' would have been
better. Think about: Take balloon A, tie a 50'
piece of string to it. Take balloon B, tie a 50'
piece of string to it. Then tie the strings together
at thier ends. Then tie the payload to the joint
between the strings. If the strings are long enough,
I don't think the balloons will be touching at full
expansion. The concept of Blammo A setting up
Blammo B is a possibility. I dunno, just seems like
a real simple way to possibly milk a 2-3 hour flight
into 6-12 or so.

- KMC ng0x Denver

1090. Re: [GPSL] "tandem bridle"

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-18 06:28:52 UTC
From: Mike Manes
Topic: 1089 Message: 1090

The possibility of the two 50 ft lift lines getting twisted
together inseperably is an even greater certainty.
73 de Mike W5VSI

"K. Mark Caviezel" wrote:
>
> > Can you define "tandem bridle" a bit more?
> Will the balloons be in contact with each other at
> full expansion?
>
> For Mark Connor:
> oooops, I chose the wrong words for what I was trying
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> - KMC ng0x Denver
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1091. WB8ELK-11 balloon headed out to sea as well

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-19 19:16:08 UTC
From: wb8elk@aol.com
Topic: 1091 Message: 1091

Hi Ralph,

Wishful thinking on my part. Instead of the GPS battery coming loose at burst (which is what I was hoping had happened), your analysis of the digipeater paths from the last few APRS transmissions certainly prove that it was still floating at altitude at the last APRS transmission on 2340:11z. It was just concidence that the PocketTracker battery lasted 35 minutes longer than the GPS battery.

I received a description this morning from Wes KD4RDB in Sumter, SC of what the voice ID on 144.31 was doing near the end (i.e. getting very slow and garbled - which is what the voice ID does just before it freezes up) indicating that it just simply died out from the cold and was on it's merry way to the Atlantic. The last known reception report of the voice ID was at 2324z from K4QI.

Solar heating sure has a big effect on internal payload temperature as well as balloon lift...it will be interesting to plot altitude, internal temperature and battery voltage vs. time (with sunset at the balloon's altitude indicated). N4TXI-11 downlinked battery voltage and internal temp: A=103215 B 021 320 .. the B is satellites in view in HEX, 021 is internal temp (value - 60 = temp in C, -39 in this case), 320 is battery voltage*100 ... i.e. 3.20 volts.

The balloons may have floated until an hour or two after sunrise...so it's possible they travelled an additional 1000 miles or more to the east before bursting.

So it would appear that to get a long duration flight, fly close enough to sunset so that you lose solar heating lift before you reach burst altitude (at least this appears to work for 320 ft/min ascent rate)....it would be a good experiment to try this again but from a group with more breathing room before hitting the Atlantic.

Maybe the payloads will be found by a boat eventually....looks like we have two ocean-going buoys now.

- Bill WB8ELK

1092. WB8ELK-11 reappeared this morning flying near Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-19 21:17:32 UTC
From: wb8elk@aol.com
Topic: 1092 Message: 1092

As I was copying off the Findu raw data from my flight this afternoon (Sunday), I noticed some new entries timestamped on the Findu raw data starting 1259:21z until 1557:55z this Sunday morning. It looks like the PocketTracker battery warmed up after sunrise and started to work again but the GPS battery apparently is dead so no valid position is being reported so it's not showing up on the main FindU tracking page but was recorded on the Raw Data.

The digipeaters that were being hit by it are from Maine, Nova Scotia and New Brunswick, Canada, so it would appear that it was flying in that general vicinity until about 1557z when the balloon probably burst or landed (or splashed down).

Here's the last reports from FindU on Sunday morning starting from the point where it first starting working again at 1259:21z:

```
20041219125921,WB8ELK-11>
APT311,N1YHR-15*,WIDE2-2,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219130046,WB8ELK-11>
APT311,N1YHR-15*,WIDE2-2,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219130650,WB8ELK-11>
APT311,RELAY*,WIDE2-1,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219130919,WB8ELK-11>
APT311,N1YHR-15*,WIDE2-2,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219131224,WB8ELK-11>
APT311,RELAY*,WIDE2-1,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219131814,WB8ELK-11>
APT311,RELAY*,WIDE2-1,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219131858,WB8ELK-11>
APT311,N1QPR-2*,WIDE2-1,qAS,N1UEC:/000000h0000.000/00000.000O000/000
20041219131944,WB8ELK-11>
APT311,N1QPR-2*,WIDE2,qAS,N1UEC:/000000h0000.000/00000.000O000/000
20041219132044,WB8ELK-11>
APT311,RELAY*,WIDE2-1,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219132522,WB8ELK-11>
APT311,N1QPR-2*,WIDE2-1,qAS,N1UEC:/000000h0000.000/00000.000O000/000
20041219133333,WB8ELK-11>
APT311,RELAY*,WIDE2-1,qAo,W2DAN-15:/000000h0000.000/00000.000O000/000
20041219133937,WB8ELK-11>
APT311,N1QPR-2*,WIDE2-1,qAS,N1UEC:/000000h0000.000/00000.000O000/000
20041219154333,WB8ELK-11>
APT311,VE1MTT*,WIDE2-1,qAo,VE1UHF-1:/000000h0000.000/00000.000O000/000
20041219154755,WB8ELK-11>
APT311,VE1MTT*,WIDE2,qAR,VE9GFI-1:/000000h0000.000/00000.000O000/000
20041219155352,WB8ELK-11>
APT311,VE1MTT*,WIDE2-1,qAo,VE1UHF-1:/000000h0000.000/00000.000O000/000
20041219155755,WB8ELK-11>
```

APT311,VE1MTT*,WIDE2,qAR,VE9GFI-1:/000000h0000.000/00000.000O000/000

This URL will get to the raw data with Findu timestamp:

http://www.findu.com/cgi-bin/raw.cgi?call=WB8ELK-11&time=1&start=100&stop=100

73s de Bill WB8ELK

1093. Re: [GPSL] WB8ELK-11 balloon headed out to sea as well

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-20 03:20:26 UTC
From: Zack Clobes
Topic: 1091 Message: 1093

I must have missed something... was this intentional?

Of course would you admit to it if it wasn't intentional? :-)

What happened?

Zack Clobes, W0ZC
Project: Traveler

wb8elk@... wrote:

> Hi Ralph,
>
> Wishful thinking on my part. Instead of the GPS battery coming loose
> at burst (which is what I was hoping had happened), your analysis of
> the digipeater paths from the last few APRS transmissions certainly
> prove that it was still floating at altitude at the last APRS
> transmission on 2340:11z. It was just concidence that the
> PocketTracker battery lasted 35 minutes longer than the GPS battery.
>
> I received a description this morning from Wes KD4RDB in Sumter, SC of
> what the voice ID on 144.31 was doing near the end (i.e. getting very
> slow and garbled - which is what the voice ID does just before it
> freezes up) indicating that it just simply died out from the cold and
> was on it's merry way to the Atlantic. The last known reception report
> of the voice ID was at 2324z from K4QI.
>
> Solar heating sure has a big effect on internal payload temperature as
> well as balloon lift...it will be interesting to plot altitude,
> internal temperature and battery voltage vs. time (with sunset at the
> balloon's altitude indicated). N4TXI-11 downlinked battery voltage and
> internal temp: A=103215 B 021 320 .. the B is satellites in view in
> HEX, 021 is internal temp (value - 60 = temp in C, -39 in this case),
> 320 is battery voltage*100 ... i.e. 3.20 volts.
>
> The balloons may have floated until an hour or two after sunrise...so
> it's possible they travelled an additional 1000 miles or more to the
> east before bursting.
>
> So it would appear that to get a long duration flight, fly close
> enough to sunset so that you lose solar heating lift before you reach
> burst altitude (at least this appears to work for 320 ft/min ascent
> rate)....it would be a good experiment to try this again but from a
> group with more breathing room before hitting the Atlantic.
>
> Maybe the payloads will be found by a boat eventually....looks like

> we have two ocean-going buoys now.
>
> - Bill WB8ELK
>
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1094. WB8ELK and N4TXI long duration flight details

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-20 10:43:49 UTC
From: wb8elk@aol.com
Topic: 1094 Message: 1094

Hi Zack and the group,

Payload Details:

HiBall-2 (WB8ELK-11):

- APRS Payload weight: 10 oz
(Pocketracker with Garmin GPS-18LVC each powered by a lithium 9V)
- 144.31 voice ID weight: 5 oz
(Pelican Systems Foxhunt voice ID 50 mW transmitter powered by one lithium 9V)

Balloon: Scientific Sales 1500 gram

Total Flight train weight (includes payloads listed above): 1lb 4oz
Nozzle Lift: 2.0 pounds

Initial ascent rate: 270 ft/min

details and photos will be on my website by late this week:
http://www.wb8elk.com.

N4TXI-11 balloon details:

- APRS payload: 1.0 lb
(N4TXI's own single chip design called the WhereAVR based on the AVR ATmega8)
Transmitter: Alinco DJ-S11T with Garmin GPS 18-LVC - powered by 3 lithium
AA's in the Alinco radio

Details on his website: http://www.garydion.com

Balloon: Scientific Sales 1500 gram

Total flight train weight below balloon (includes payloads listed above): 1lb
4.5oz
Nozzle lift: 2lb 4oz

Initial ascent rate: 320 ft/min

Flight synopsis:

Here's some details about the 22+ hour HiBall-2 flight....it was intended
to be a high altitude record flight, but since I only hit 270 ft/min ascent
rate, it took hours to reach 98,570 feet....at that point sunset occurred at the
balloon and it stopped it's ascent and levelled off for awhile and then slowly
descended....very very slowly. This is well below the burst point of a 1500
gram balloon filled with 2 pounds of nozzle lift so it flew on it's merry way
out to sea and apparently followed the eastern seaboard. At 2306z (after almost

6 hours in the air) the GPS battery froze and failed...at 2340z the Pocketracker battery also froze...this was just southwest of Charlotte, NC. Shortly after sunrise on Sunday morning, I was surprised to see on Findu's raw data file that the PocketTracker had apparently thawed out and was being relayed through three stations in New England....N1QPR-2 (MASS), N1YHR-15(MASS) and then the final transmissions were relayed by VE1MTT in Nova Scotia. This was after 22hours and 44minutes of flight time and a flight distance of 1201 miles. If I got lucky it may have landed in Nova Scotia, but more than likely ended up in the Atlantic.

N4TXI had more lift than my balloon and went up a bit faster....at sunset it stopped ascending at 105,224 feet and slowly descended for awhile and levelled off. After over 8 hours of flight time and 626 miles downrange, it headed out to sea near Cape Hatteras, NC and was zipping along at 112 mph at 103k feet....at that point the batteries froze out as the internal temperature was -40C or below (his sensor bottoms out at -40C). If it came back on at sunrise, there were probably no digipeaters in range.

- Bill WB8ELK

1095. Lost at Sea - The Flight of 121804

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-21 01:13:25 UTC
From: Harry M
Topic: 1095 Message: 1095

Lost at Sea - The Flight of 121804

http://www.knology.net/~gdion/ballooning.html

The ark was built by amateurs.
The Titanic was built by professionals.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1096. Re: [GPSL] WB8ELK and N4TXI long duration flight details

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-22 03:29:17 UTC
From: Mike Manes
Topic: 1094 Message: 1096

Hi Bill,

Most sincere condolances for your losses, Bill. I hope that they do
come home, like a bad penny, eventually ...

For what it's worth, it seems that a little waste heat in a payload
isn't necessarily a bad thing. This is what concerns me about the
PocketTracker - that, plus the fact that the VCO in the PLL isn't
well temp-compensated. It is possible that battery didn't die, but
that the VCO warmed up enough in the morning sun to lock back up on
144.39. On two flights where we test-flew a PocketTracker, it
failed up near the tropopause, but worked fine on the deck.

Your observation about the slow ascent rate causing loss of lift
after sunset is well taken. However, slow ascents have resulted in
latex stalls even in full sunlight. So I get a bit spooked by ascent
rates under 800 fpm. This notion appears to be supported by the
fact that your faster balloon hit a higher altitude than did
the slower one.

Per LifWin 0.4, your fills should have yielded ascent rates in the
400 - 600 fpm range, with bursts that would have garnered the Onset
prize. But LiftWin may lose some precision at such low fills.

73 de Mike W5VSI

wb8elk@... wrote:
>
> Hi Zack and the group,
>
> Payload Details:
>
> HiBall-2 (WB8ELK-11):
>
> - APRS Payload weight: 10 oz
> (Pocketracker with Garmin GPS-18LVC each powered by a lithium 9V)
> - 144.31 voice ID weight: 5 oz
> (Pelican Systems Foxhunt voice ID 50 mW transmitter powered by one
> lithium 9V)
>
> Balloon: Scientific Sales 1500 gram
>
> Total Flight train weight (includes payloads listed above): 1 lb 4oz
> Nozzle Lift: 2.0 pounds
>
> Initial ascent rate: 270 ft/min

>
> details and photos will be on my website by late this week:
> http://www.wb8elk.com.
> ---------------------
> N4TXI-11 balloon details:
>
> - APRS payload: 1.0 lb
> (N4TXI's own single chip design called the WhereAVR based on the AVR
> ATmega8)
> Transmitter: Alinco DJ-S11T with Garmin GPS 18-LVC - powered by 3
> lithium AA's in the Alinco radio
>
> Details on his website: http://www.garydion.com
>
> Balloon: Scientific Sales 1500 gram
>
> Total flight train weight below balloon (includes payloads listed
> above): 1 lb 4.5oz
> Nozzle lift: 2lb 4oz
>
> Initial ascent rate: 320 ft/min
>
> ----------------------
> Flight synopsis:
>
> Here's some details about the 22+ hour HiBall-2 flight....it was
> intended to be a high altitude record flight, but since I only hit 270
> ft/min ascent rate, it took hours to reach 98,570 feet....at that
> point sunset occurred at the balloon and it stopped it's ascent and
> levelled off for awhile and then slowly descended....very very slowly.
> This is well below the burst point of a 1500 gram balloon filled with
> 2 pounds of nozzle lift so it flew on it's merry way out to sea and
> apparently followed the eastern seaboard. At 2306z (after almost 6
> hours in the air) the GPS battery froze and failed...at 2340z the
> Pocketracker battery also froze...this was just southwest of
> Charlotte, NC. Shortly after sunrise on Sunday morning, I was
> surprised to see on Findu's raw data file that the PocketTracker had
> apparently thawed out and was being relayed through three stations in
> New England....N1QPR-2 (MASS), N1YHR-15(MASS) and then the final
> transmissions were relayed by VE1MTT in Nova Scotia. This was after
> 22hours and 44minutes of flight time and a flight distance of 1201
> miles. If I got lucky it may have landed in Nova Scotia, but more than
> likely ended up in the Atlantic.
>
> N4TXI had more lift than my balloon and went up a bit faster....at
> sunset it stopped ascending at 105,224 feet and slowly descended for
> awhile and levelled off. After over 8 hours of flight time and 626
> miles downrange, it headed out to sea near Cape Hatteras, NC and was
> zipping along at 112 mph at 103k feet....at that point the batteries
> froze out as the internal temperature was -40C or below (his sensor

> bottoms out at -40C). If it came back on at sunrise, there were
> probably no digipeaters in range.
>
> - Bill WB8ELK
>
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1097. Re: [GPSL] WB8ELK and N4TXI long duration flight details

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-22 07:57:53 UTC
From: wb8elk@aol.com
Topic: 1094 Message: 1097

Hi Mike,

Both of our balloons were well below expected burst altitude, so since they both stopped ascending almost at the exact same time (both within minutes of the time when the Sun stopped shining on the balloons), I would imagine the levelling off effect occured due to the loss of solar heating. I had one float on me in the middle of the day on Dec 4th but that one made it up to 117,181 feet...same payload and a bit more nozzle lift....but it had a slow ascent rate (550 ft/min) which allowed it to go into equilibrium for 2 hours before it eventually burst.

I think we only had a few ounces of lift on 12/18....since it was difficult to precisely measure the lift with the small wind gusts we encountered outside while filling the balloons. Floatwin showed we should've gone way higher and ascended faster too...so it would appear we had a very small positive free lift. It was a bright sunny day and we inflated outside.

Gary's balloon (N4TXI) levelled off perfectly at 103k after sunset....mine seemed to be slowly descending....mine had less lift in it...also the fact that it ended up near Nova Scotia indicates it probably came down to 45k to 60k feet during the night since that's the only way I can imagine it hitting winds that would send it in that direction. Ralph Wallio sent me a chart that showed jet stream winds heading in that precise direction at the time. Gary's balloon probably headed out towards the Bermuda Triangle.

I adjusted the tuning voltage on the PocketTracker to 2.6 volts to compensate for the cold...offset from the 1.8V they recommend for normal operations. I tested this in my freezer before I flew. It is entirely possible that the VCO just drifted out of lock due to the extreme cold after sunset. I flew it 5 times prior to this flight and it never dropped out of lock when the tuning voltage was set to 2.6 volts during a daytime flight....but I must admit that it's pretty tricky and touchy to adjust precisely.

73s de Bill WB8ELK

1098. Re: [GPSL] WB8ELK and N4TXI long duration flight details

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-22 12:38:06 UTC
From: Stephanie Steele
Topic: 1094 Message: 1098

Hi guys,

I tuned my VCO low to compensate for the cold and have tested mine for hours with dry ice on it and it works just fine. It also has remained stable on all three flights where it has flown. I agree that if you don't retune the VCO for the cold like the designer recommends that you could have the problem you describe but the VCO's ability to lock is so wide that with it tuned correctly you should not have any problem.

Stephanie

Mike Manes wrote:
>
> For what it's worth, it seems that a little waste heat in a payload
> isn't necessarily a bad thing. This is what concerns me about the
> PocketTracker - that, plus the fact that the VCO in the PLL isn't
> well temp-compensated. It is possible that battery didn't die, but
> that the VCO warmed up enough in the morning sun to lock back up on
> 144.39. On two flights where we test-flew a PocketTracker, it
> failed up near the tropopause, but worked fine on the deck.
>

--
Stephanie

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

"They that can give up essential liberty to obtain a little temporary safety deserve neither liberty nor safety."

Benjamin Franklin (1706-1790), Letter to Josiah Quincy, Sept. 11, 1773.

"Those who desire to give up freedom in order to gain security will not have, nor do they deserve, either one."

President Thomas Jefferson.
1743-1826

****

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****

...and for those who just can not get enough tag lines:

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for 40 minutes

1099. pocket track cold issues ? one+ great success story

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-22 22:21:57 UTC
From: K. Mark Caviezel
Topic: 1099 Message: 1099

From W5VSI:
This is what concerns
> me about the
> PocketTracker - that, plus the fact that the VCO in
> the PLL isn't
> well temp-compensated. It is possible that battery
> didn't die, but
> that the VCO warmed up enough in the morning sun to
> lock back up on
> 144.39. On two flights where we test-flew a
> PocketTracker, it
> failed up near the tropopause, but worked fine on
> the deck.

Comment from NG0X: Mike, in all fairness, it's only appropriate to also mention the FLAWLESS operation of the Pocket Track + Garmin Etrex I flew as the AC0AK-11 beacon on EOSS 79.

http://www.eoss.org/eoss079/EOSS79_ac0ak_landing.mpg

Check the video - The Pocket Tracker was the only tracking beacon I used during the entire flight and it worked well during the entire flight and infact had beacons decoded from over 400 miles range during the flight. (oops, I think Rick N0KKZ may have taken that video down to save space on the website). Two Pocket Trackers were also used successfully on the record setting "ES-OS SEVEN" mission which parked a heavily laden floater at 40k feet. - it doesn't get any colder than that !
All that having been said, Ive been thinking about doing some thermal analysis to see if a thermostatted electrical heater in a highly insulated payload container has any chance of working.

- KMC ng0x, former ac0ak

1100. RE: [GPSL] pocket track cold issues ? one+ great success story

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-23 04:47:41 UTC
From: Rick von Glahn
Topic: 1099 Message: 1100

Video still posted.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: K. Mark Caviezel [mailto:kmcaviezel@...]
> Sent: Wednesday, December 22, 2004 3:22 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] pocket track cold issues ? one+ great success story

...snip...

> http://www.eoss.org/eoss079/EOSS79_ac0ak_landing.mpg
>
> Check the video - The Pocket Tracker was the only tracking
> beacon I used during the entire flight and it worked well
> during the entire flight and infact had beacons decoded from
> over 400 miles range during the
> flight. (oops, I think Rick N0KKZ may have taken
> that video down to save space on the website).

...Snip...

1101. Re: [GPSL] pocket track cold issues ? one+ great success story

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-23 23:26:02 UTC
From: Mike Manes
Topic: 1099 Message: 1101

As my ol' boss usta say, "One 'aw, (shux)' is worth ten attaboys".

Thus far, the in-flight failures remain undiagnosed, but one needs better than a 333 batting average with an APRS beacon to ensure commercial flight separation and payload recovery. The fact that the VCO requires a special tweak for frigid ambients does arouse suspicion, however.

Perhaps the proximity of the Altoids tin lid to the unshielded VCO tank changes, even snaps, in the combo of low ambient temp AND pressure? We one had a new product with a laminated dome switch control panel that checked out 100% during production test in Denver, but which declared a high rate of "stuck button" power-up faults in San Francisco. We were able to duplicate the problem by putting the panel in a pressure chamber and punching it up 3 psig - approx the same delta baro pressure between here and SFO. Turns out that one touch switch on the panel was not properly vented.

73 de Mike W5VSI

"K. Mark Caviezel" wrote:
>
> >From W5VSI:
> This is what concerns
> > me about the
> > PocketTracker - that, plus the fact that the VCO in
> > the PLL isn't
> > well temp-compensated. It is possible that battery
> > didn't die, but
> > that the VCO warmed up enough in the morning sun to
> > lock back up on
> > 144.39. On two flights where we test-flew a
> > PocketTracker, it
> > failed up near the tropopause, but worked fine on
> > the deck.
>
> Comment from NG0X: Mike, in all fairness, it's only
> appropriate to also mention the FLAWLESS operation of
> the Pocket Track + Garmin Etrex I flew as the AC0AK-11
> beacon on EOSS 79.
>
> http://www.eoss.org/eoss079/EOSS79_ac0ak_landing.mpg
>
> Check the video - The Pocket Tracker was the only
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> worked well during the entire flight and infact had

> beacons decoded from over 400 miles range during the
> flight. (oops, I think Rick N0KKZ may have taken
> that video down to save space on the website). Two
> Pocket Trackers were also used successfully on the
> record setting "ES-OS SEVEN" mission which parked a
> heavily laden floater at 40k feet. - it doesn't get
> any colder than that !
> All that having been said, Ive been thinking about
> doing some thermal analysis to see if a thermostatted
> electrical heater in a highly insulated payload
> container has any chance of working.
>
> - KMC ng0x, former ac0ak

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1102. Re: [GPSL] pocket track cold issues ? one+ great success story

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-24 14:23:02 UTC
From: Stephanie Steele
Topic: 1099 Message: 1102

I still propose that those who have properly set their Pocket Trackers up for near space (extreme cold) operation, as directed by the designer, have had zero problems with cold related failures. Some of those who chose not to adjust the VCO have had problems. I see the capability to adjust the VCO, not as suspect, but as a positive design feature that allows the unit to be set up as required to perform in a wide range of temperature enviroments from extreme heat to extreme cold. It's not that the VCO "requires a special tweak" rather the VCO is factory adjusted to perform flawlessly in temperature ranges that would normally be encountered on the surface of the earth, from extreme heat of being inside a closed car in the summer to being outside in normal cold that would be encountered in a search and rescue mission in the mountains in winter.

Also, to my knowledge there are no components in the PT design that should be effected by pressure changes and I can't imagine that anyone has built their unit so that the can is airtight. I can state that -109.3 degrees f for 3+ hours had no negegative effect on either the can or the operation of the PT during the two tests that I have run on it. I intend to run another test for 12+ hours soon.

I suppose it's all in your approach to life (you know, glass half full or glass half empty kind of thought patterns) and continued PT flights will continue to either disprove or prove the design. I like and trust the design and have seen many others obtain flawless performance from the Pocket Tracker when used as directed.

Stephanie

Mike Manes wrote:
> As my ol' boss usta say, "One 'aw, (shux)' is worth ten attaboys".
>
> Thus far, the in-flight failures remain undiagnosed, but one needs
> better than a 333 batting average with an APRS beacon to ensure
> commercial flight separation and payload recovery. The fact that
> the VCO requires a special tweak for frigid ambients does arouse
> suspicion, however.
>
> Perhaps the proximity of the Altoids tin lid to the unshielded VCO
> tank changes, even snaps, in the combo of low ambient temp AND
> pressure? We one had a new product with a laminated dome switch
> control panel that checked out 100% during production test in Denver,
> but which declared a high rate of "stuck button" power-up faults
> in San Francisco. We were able to duplicate the problem by putting
> the panel in a pressure chamber and punching it up 3 psig - approx
> the same delta baro pressure between here and SFO. Turns out that

> one touch switch on the panel was not properly vented.
>
> 73 de Mike W5VSI
>
> "K. Mark Caviezel" wrote:
>
>>>From W5VSI:
>> This is what concerns
>>
>>>me about the
>>>PocketTracker - that, plus the fact that the VCO in
>>>the PLL isn't
>>>well temp-compensated. It is possible that battery
>>>didn't die, but
>>>that the VCO warmed up enough in the morning sun to
>>>lock back up on
>>>144.39. On two flights where we test-flew a
>>>PocketTracker, it
>>>failed up near the tropopause, but worked fine on
>>>the deck.
>>
>>Comment from NG0X: Mike, in all fairness, it's only
>>appropriate to also mention the FLAWLESS operation of
>>the Pocket Track + Garmin Etrex I flew as the AC0AK-11
>>beacon on EOSS 79.
>>
>>http://www.eoss.org/eoss079/EOSS79_ac0ak_landing.mpg
>>
>>Check the video - The Pocket Tracker was the only
>>tracking beacon I used during the entire flight and it
>>worked well during the entire flight and infact had
>>beacons decoded from over 400 miles range during the
>>flight. (oops, I think Rick N0KKZ may have taken
>>that video down to save space on the website). Two
>>Pocket Trackers were also used successfully on the
>>record setting "ES-OS SEVEN" mission which parked a
>>heavily laden floater at 40k feet. - it doesn't get
>>any colder than that !
>>All that having been said, Ive been thinking about
>>doing some thermal analysis to see if a thermostatted
>>electrical heater in a highly insulated payload
>>container has any chance of working.
>>
>>- KMC ng0x, former ac0ak
>
>

--
Stephanie

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

"They that can give up essential liberty to obtain a little temporary safety deserve neither liberty nor safety."

Benjamin Franklin (1706-1790), Letter to Josiah Quincy, Sept. 11, 1773.

"Those who desire to give up freedom in order to gain security will not have, nor do they deserve, either one."

President Thomas Jefferson.
1743-1826

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de recta non tolerandum sunt

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...and for those who just can not get enough tag lines:

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Those of you with an overwhelming fear of the unknown will be gratified to learn that there is no hidden message revealed by reading this warning backwards, so just ignore that Alert Notice from Microsoft. However, by pouring a complete circle of salt around yourself and your computer you can ensure that no harm befalls you and your pets. If you have received this email in error, please add some nutmeg and egg whites, whisk and place in a warm oven

for 40 minutes

1103. pocket track cold issues II...possible GPSL payload session ?

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-24 18:02:12 UTC
From: K. Mark Caviezel
Topic: 1103 Message: 1103

Rick: thanks for leaving the EOSS 79 landing video up. Something was boned-up on my computer or internet connection yesterday, I thought it was down. It's working now.

Mike: There's no argueing with the success of the Pocket Tracker I flew on EOSS 79 - it simply cannot be explained away as an accidental success - and at the same time the flight failures you've seen are of high concern. If you do diagnose exactly what went wrong it would be a service to the "ARHAB" community to report it. Here I guess would be a good place for it.

Stephanie: wow, that sounds like a brutal cold soak! Shivver my timbers ! Thanks for passing along the results.

GPSL tie-in - How about a session for detailed payload show-and-tell at GPSL? Bring your well performing payloads, and your skyturds, and let's learn from each others successes and mistakes. I know many people focus on the 'egg-head' portion of the payloads - the active electronics, but a successful stratospheric payload needs to acheive excellence in packaging, attachment, antenna, wiring, and power source as well.

- KMC ng0x (gonna spend some time thinking about cold + low temperature, invite others to do the same).

1104. Congrats to TVNSP on the record altitude for 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2004-12-28 08:42:55 UTC
From: wb8elk@aol.com
Topic: 1104 Message: 1104

Hi Stephanie,

Just as I thought I was on top of the world at 118,647 ft, I looked up and there was "No Big Thing" floating 187 feet above me (118,834 ft)....wow...you all had me glued to FindU today.

Congratulations to TVNSP on the new altitude record for 2004 and helping to make the contest an exciting thrill ride as we reach for new heights.

73s de Bill WB8ELK

1105. Is there a Paul Verhage in the house?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-02 05:47:00 UTC
From: Stephanie Steele
Topic: 1105 Message: 1105

Hi Paul,

If you get this, I have sent you an invitation to your personal email address. TVNSP is planning our annual business meeting next week. Drop me a note when you can. Thanks!

--
Stephanie

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

"They that can give up essential liberty to obtain a little temporary safety deserve neither liberty nor safety."

Benjamin Franklin (1706-1790), Letter to Josiah Quincy, Sept. 11, 1773.

"Those who desire to give up freedom in order to gain security will not have, nor do they deserve, either one."

President Thomas Jefferson.
1743-1826

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de recta non tolerandum sunt

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...and for those who just can not get enough tag lines:

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be ignored. No animals were harmed in the transmission
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borrowed time, let me tell you.

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complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

1106. TVNSP Onset Prize entry - a winner from my viewpoint

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-02 14:18:09 UTC
From: Ralph Wallio, W0RPK
Topic: 1106 Message: 1106

Paul,

My thanks for creating our 2004 ONSET PRIZE. You have again added more excitement to Amateur Radio High Altitude Ballooning!

From my viewpoint TVNSP has won the 2004 Onset Prize with TV04G rising to 118,946ft on 27Dec04.

Regarding our Onset Prize requirements:

1. Announce your flight at least a week prior to launch (announce the general launch location, callsign of the near spacecraft, and its frequency)

TVNSP announcement was received and posted on 18Dec04.

2. Use a GPS receiver and APRS to transmit position data during the mission
3. Transmit APRS data such that other amateur radio operators can record the data

GPS APRS data is available as downloaded from FINDU.COM. TVNSP submitted additional GPS derived data captured by their IHU.

4. Obey FAR 101 requirements

Contact TVNSP if there are any questions.

5. Recover the near spacecraft

TV04G payload was recovered as discussed in TVNSP web page below.

6. Announce the results of the flight (include several packets or posits around the peak altitude)

See TVNSP flight archive,
http://www.tvnsp.org/modules.php?name=Flight_Archive.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1107. OnSet Prize 2004

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-03 17:31:15 UTC
From: paul.verhage@boiseschools.org
Topic: 1107 Message: 1107

The OnSet Prize has been awarded to TVNSP. I'll make arrangements to get the prize, a four channel data logger, temperature sensor, and software to them.

I'm in the process of creating more prizes for 2005. So far I have one offer of sponsorship this year. After I get them all lined up, I'll announce them. If you're interested in sponsoriong a prize, or know someone who is, please let me know.

Paul

1108. AAA lithiums

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-03 20:22:57 UTC
From: K. Mark Caviezel
Topic: 1108 Message: 1108

All:
just got back from there store, noticed that there is
a new product on the market - AAA lithiums. Could
be an enabling item for those wishing to fly
super-light Garmin Geko based APRS trackers.

- KMC ng0x "ES-OS" Denver

1109. Re: [GPSL] AAA lithiums

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-03 22:08:38 UTC
From: Mark Conner
Topic: 1108 Message: 1109

There are AA lithiums too. Good 1.5V replacements for alkalines.
I will probably go to these for payload batteries when my Li-ion
batteries quit working by discharging them too hard.

Battery capacity is about 3000-3500 mAh.

- Mark

----- Original Message -----
From: "K. Mark Caviezel" <kmcaviezel@...>
To: <gpsl@yahoogroups.com>
Sent: Monday, January 03, 2005 14:22
Subject: [GPSL] AAA lithiums

>
> All:
> just got back from there store, noticed that there is
> a new product on the market - AAA lithiums. Could
> be an enabling item for those wishing to fly
> super-light Garmin Geko based APRS trackers.
>
> - KMC ng0x "ES-OS" Denver
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1110. Re: [GPSL] AAA lithiums

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-03 23:11:20 UTC
From: Zack Clobes
Topic: 1108 Message: 1110

Be careful on the 3000mAh spec. My experience is that the capacity is largely dependent on the load that it's powering. As I recall, if you read the fine print on the spec sheet, the capacity is assuming something like a constant 1mA load.

Nevertheless, they're good batteries. We've flown them on most of our flights with excellent results.

Zack Clobes, W0ZC
Project: Traveler

Mark Conner wrote:

>There are AA lithiums too. Good 1.5V replacements for alkalines.
>I will probably go to these for payload batteries when my Li-ion
>batteries quit working by discharging them too hard.
>
>Battery capacity is about 3000-3500 mAh.
>
>- Mark
>
>
>
>----- Original Message -----
>From: "K. Mark Caviezel" <kmcaviezel@...>
>To: <gpsl@yahoogroups.com>
>Sent: Monday, January 03, 2005 14:22
>Subject: [GPSL] AAA lithiums
>
>
>
>
>>All:
>>just got back from there store, noticed that there is
>>a new product on the market - AAA lithiums. Could
>>be an enabling item for those wishing to fly
>>super-light Garmin Geko based APRS trackers.
>>
>>- KMC ng0x "ES-OS" Denver
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1111. Re: [GPSL] AAA lithiums

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-04 13:48:29 UTC
From: Mark Conner
Topic: 1108 Message: 1111

http://data.energizer.com/PDFs/lithiuml91l92_appman.pdf

I misread the graphs, thinking they were mA instead of mW. So
the capacity is more like 2400 mAh with a constant 1000 mW load
(about 666 mA at 1.5V).

- Mark

----- Original Message -----
From: "Zack Clobes" <zclobes@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, January 03, 2005 17:11
Subject: Re: [GPSL] AAA lithiums

>
> Be careful on the 3000mAh spec. My experience is that the
> capacity is
> largely dependent on the load that it's powering. As I recall,
> if you
> read the fine print on the spec sheet, the capacity is assuming
> something like a constant 1mA load.
>
> Nevertheless, they're good batteries. We've flown them on most
> of our
> flights with excellent results.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> Mark Conner wrote:
>
>>There are AA lithiums too. Good 1.5V replacements for
>>alkalines.
>>I will probably go to these for payload batteries when my
>>Li-ion
>>batteries quit working by discharging them too hard.
>>
>>Battery capacity is about 3000-3500 mAh.
>>
>>- Mark
>>
>>
>>
>>----- Original Message -----
>>From: "K. Mark Caviezel" <kmcaviezel@...>
>>To: <gpsl@yahoogroups.com>

>>Sent: Monday, January 03, 2005 14:22
>>Subject: [GPSL] AAA lithiums
>>
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>>
>>>All:
>>>just got back from there store, noticed that there is
>>>a new product on the market - AAA lithiums. Could
>>>be an enabling item for those wishing to fly
>>>super-light Garmin Geko based APRS trackers.
>>>
>>>- KMC ng0x "ES-OS" Denver
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1112. Re: [GPSL] AAA lithiums

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-04 14:20:35 UTC
From: paul.verhage@boiseschools.org
Topic: 1108 Message: 1112

I'll pipe in about the AA's also. I get about 2000 mAH out of them. They're still great batteries, probably the best I've used.

Paul

>
> Be careful on the 3000mAh spec. My experience is that the capacity is
> largely dependent on the load that it's powering. As I recall, if you
> read the fine print on the spec sheet, the capacity is assuming
> something like a constant 1mA load.
>
> Nevertheless, they're good batteries. We've flown them on most of our
> flights with excellent results.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> Mark Conner wrote:
>
> >There are AA lithiums too. Good 1.5V replacements for alkalines.
> >I will probably go to these for payload batteries when my Li-ion
> >batteries quit working by discharging them too hard.
> >
> >Battery capacity is about 3000-3500 mAh.
> >
> >- Mark
> >
> >
> >
> >----- Original Message -----
> >From: "K. Mark Caviezel" <kmcaviezel@...>
> >To: <gpsl@yahoogroups.com>
> >Sent: Monday, January 03, 2005 14:22
> >Subject: [GPSL] AAA lithiums
> >
> >
> >
> >
> >>All:
> >>just got back from there store, noticed that there is
> >>a new product on the market - AAA lithiums. Could
> >>be an enabling item for those wishing to fly
> >>super-light Garmin Geko based APRS trackers.
> >>
> >>- KMC ng0x "ES-OS" Denver

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1113. GPSL 2005 official date change - July 1-3, 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-04 17:41:53 UTC
From: n9xtn@cox.net
Topic: 1113 Message: 1113

After talking with Paul Verhage KD4STH and some others by e-mail, the best of a sub-optimum set of choices is to have GPSL 2005 on July 1-3, 2005, here in Omaha. I apologize for having to move the date and possibly preventing some groups from attending in person.

We will continue with having the symposium on Friday, the primary flight day on Saturday and the backup flight day on Sunday.

I know EOSS is planning a flight on 2 July from Colorado. I'm hopeful they can participate in GPSL vicariously and perhaps we can have a longer-range EBBE contact. If there are other groups who can't attend GPSL in person, I hope they can also fly at the same time and if they are in range possibly have EBBE contacts with them as well.

I will update the website (www.superlaunch.org) in the next day or two to reflect the new date. I'll submit articles to the local ham radio club newsletters and hopefully boost local participation.

We should also plan to send notices to national magazines like QST, CQ, CQ-VHF, and ATVQ. I can draft something and submit it to the group for review prior to sending it off.

Again, thanks to all for your flexibility and sorry that it was necessary to change the date.

73 de Mark N9XTN

1114. Fw: AIAA Balloon Technology Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-05 20:37:56 UTC
From: Mark Conner
Topic: 1114 Message: 1114

Too bad the conference isn't closer.....

- Mark

----- Original Message -----
From: Henry M. Cathey, Jr.
To: Henry.M.Cathey.1@...
Sent: Wednesday, January 05, 2005 14:02
Subject: AIAA Balloon Technology Conference

AIAA Balloon Technology Conference

You are receiving this email message because you may have an interest in Scientific Ballooning. If you wish to be removed from this email list please reply to this email (Henry.M.Cathey.1@...) with a request to have your email address removed.

Dear Colleagues,

AIAA Ballooning Technical Committee will be having a conference from September 26 to 28, 2005 in Crystal City, Arlington, Virginia (near Washington, D.C.). The Ballooning sessions will be part of the AIAA/ATIO conference. We will be co-located with a number of groups including the AIAA Lighter Than Air (LTA) group. It is hoped that we will have a real synergism with the LTA group and we are planning for several combined sessions on topics of mutual interest.

The call for papers was included in the September 2004 issue of Aerospace Magazine (pages B12 and B13). The abstract deadline is February 7, 2005. The information for this conference can be found at the AIAA web site (https://www.aiaa.org). From the main page follow the link in the upper left hand corner to "Conferences & Events". Scroll down to "September" and the "AIAA 5th Aviation, Technology, Integration, and Operations Conference (ATIO), 16th Lighter-than-Air and Balloon Systems Conference". You can then follow the links for the call for papers, and to submit abstracts. (Please be sure to follow the links for the Balloon Systems section.)

This meeting is a chance to share the advances being made in balloons and to learn what else is going on in our unique ballooning community. We want to encourage you to attend this meeting. Right now, we also want to encourage you to submit an abstract to present a paper. We have the prospects for an exciting conference with LTA and Balloons combined in one series of sessions and involvement with the aviation industry at large.

We are looking for members of our community to present at this conference. There are many fascinating and exciting projects and research efforts for which the stories need to be told. This is a chance to share with your colleagues. Of special interest are some of the small ballooning efforts. Currently there are a number of ballooning efforts focused toward Homeland Security and DoD applications. This conference is an open, international conference without any closed or restricted security sessions. Potential presenters should verify the need for and obtain the appropriate approval(s) for presentations in this type

of forum. Again the abstracts for the conference are due February 7, 2005. Abstract submission instructions are on the AIAA web site mentioned above.

I you have any questions about the conference, please contact Koh Murai (Koh@...) or Henry Cathey (Henry.M.Cathey.1@...).

We look forward to your enthusiastic participation!

Sincerely,
Henry Cathey, AIAA Balloon Technical Committee Chair
Koh Murai, AIAA Balloon Technical Committee Conference Coordinator

1115. Re: [GPSL] GPSL 2005 official date change - July 1-3, 2005

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-05 20:40:03 UTC
From: Mike Manes
Topic: 1113 Message: 1115

Hi Mark,

Yeah, I'm also disappointed about GPSL '05. There is some small hope that the CU Upward Bound flight can be moved to let us get to Omaha, but summers are jam-packed with not only student flights but also special events that many EOSS members support.

I expect that we will be flying the KPC3-based APRS module on one of the two 3000 gm Upward Bound flights on 2 July. I'll make a point of installing the 5W radio and J-pole; I plan to have that one on 144.34.

I do recommend that anyone wishing to try an EBBE do it ARQ - it's just not possible to watch both balloons to catch a single BBE beacon. I saw Ralph's UI to to me on GPSL '04 only while reviewing the packet log file after the flight was recovered. But if there had been an ARQ connect, the connect bell on the 2nd laptop in Rick's car would have sounded and I'd most likely have heard it.

To do an ARQ, connect thru the GPSL balloon to the EOSS balloon KNode, BALNOD. After that's acked and you get the prompt, then C AE0SS, which is the new callsign of the EOSS packet ground station.

73 de Mike W5VSI

n9xtn@... wrote:
>
> After talking with Paul Verhage KD4STH and some others by e-mail, the best of a sub-optimum set of choices is to have GPSL 2005 on July 1-3, 2005, here in Omaha. I apologize for having to move the date and possibly preventing some groups from attending in person.
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> We will continue with having the symposium on Friday, the primary flight day on Saturday and the backup flight day on Sunday.
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> I know EOSS is planning a flight on 2 July from Colorado. I'm hopeful they can participate in GPSL vicariously and perhaps we can have a longer-range EBBE contact. If there are other groups who can't attend GPSL in person, I hope they can also fly at the same time and if they are in range possibly have EBBE contacts with them as well.
>
> I will update the website (www.superlaunch.org) in the next day or two to reflect the new date. I'll submit articles to the local ham radio club newsletters and hopefully boost local participation.
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> We should also plan to send notices to national magazines like QST, CQ, CQ-VHF, and ATVQ. I can draft something and submit it to the group for review prior to sending it off.

>
> Again, thanks to all for your flexibility and sorry that it was necessary to change the date.
>
> 73 de Mark N9XTN
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1116. Re: [Balloons-Rockets] Aloft-1: Crash On Takeoff

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-11 02:20:54 UTC
From: Mike Manes
Topic: 1116 Message: 1116

Hi Chris,

Sounds like you've had your first taste of "false lift", since it seems your surface winds during fill were pretty brisk (faster than you could run).

False lift is just like regular airfoil lift, except the airfoil is the top of your balloon, which is anchored to the ground. Trouble is that when you release the balloon, it travels at zero horizontal airspeed, and the false lift thus disappears. Experienced balloonists can anticipate and correct for false lift, but even they strongly prefer dead calm. EOSS won't even fill the balloon if the wind is over 10 kt -- well, HARDLY ever.

If you can't avoid a windy day, then you can minimize false lift by filling close the leeward side of a 2+ story building. If it's gusty, judge your fill by whether the tare weight drops when the wind is the calmest.

Even so, an overfill will always be the safest side to err on. The worst that an overfill will do is cause a lower than normal burst, since there's more gas in the bag. And since you were worried about going too high, that would have helped. An underfill, e.g., predicted ascent rate under 700 fpm, also risks an ascent rate stall, which can make for a REAL long downrange trip!

Better to use the smallest balloon that will lift your payload, however. According to Hank Riley's Liftwin 0.411, a 100 gm Totex with a 2 lb flight string and a nozzle lift of 6.5 lbs would get you over 1300 fpm ascent rate and a burst at about 10,000 ft. (Although we've seen balloons with predicted bursts of 15K' go above 40k'!) The entire flight would last under 15 minutes, so you wouldn't have to travel far to therecovery site.

And that would require just half a K bottle of He.

Anyway, congratulations on your first flight AND a 100% recovery rate!

73 de Mike W5VSI, EOSS

ChrisV01@... wrote:
>
> My first attempt at a free balloon flight failed this morning. The payload
> string consisted of a box near the balloon envelope with timers and a flight
> termination system, 6-7ft further down the flight string was a camera set to
> take pictures every 10 seconds with a parachute 6ft after that. The total weight
> of the flight string was 2lbs.

>
> I had been worried about a rapid rate of climb because greater wind speeds at
> altitude might take the balloon further than I wanted it to go. After
> filling, the entire flight string had a free lift of only 0.5lbs. It became obvious
> this was far too little. After launch, the balloon traveled horizontally,
> slightly faster than I could run, and lodged up in a tree.
>
> The camera worked. It took 1 test picture before launched, one of me chasing
> the flight string and 22 of tree branches. Though the film hasn't been
> developed yet, this is a good bet.
>
> I am hoping to conduct a flight in the next few days using a smaller, and
> cheaper, balloon. I am planning to put just the transmitter and one recovery
> system on this next test flight.
>
> On a separate note I now have a functioning Yagi antenna. The design is a
> copy of one on the net that is specifically designed to be matched without
> needing anything other than coper wire and coax. It seems to work and I have
> tracked the transmitter down 5 timers over short distances (less that 1/2 mile).
> _____
> Balloons-Rockets mailing list
> Balloons-Rockets@...
> http://mailman.qth.net/mailman/listinfo/balloons-rockets

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1117. Re: [GPSL] Re: [Balloons-Rockets] Aloft-1: Crash On Takeoff

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-11 02:51:42 UTC
From: Zack Clobes
Topic: 1116 Message: 1117
Attachments: 1 described; binary payloads are missing from this source WARC

Been there, done that.. ;-)

Zack Clobes, W0ZC
Project: Traveler

Mike Manes wrote:

>Hi Chris,
>
>Sounds like you've had your first taste of "false lift", since it
>seems your surface winds during fill were pretty brisk (faster than
>you could run).
>
>False lift is just like regular airfoil lift, except the airfoil is
>the top of your balloon, which is anchored to the ground. Trouble is
>that when you release the balloon, it travels at zero horizontal
>airspeed, and the false lift thus disappears. Experienced balloonists
>can anticipate and correct for false lift, but even they strongly
>prefer dead calm. EOSS won't even fill the balloon if the wind is
>over 10 kt -- well, HARDLY ever.
>
>If you can't avoid a windy day, then you can minimize false lift by
>filling close the leeward side of a 2+ story building. If it's
>gusty, judge your fill by whether the tare weight drops when the
>wind is the calmest.
>
>Even so, an overfill will always be the safest side to err on. The
>worst that an overfill will do is cause a lower than normal burst,
>since there's more gas in the bag. And since you were worried about
>going too high, that would have helped. An underfill, e.g., predicted
>ascent rate under 700 fpm, also risks an ascent rate stall, which
>can make for a REAL long downrange trip!
>
>Better to use the smallest balloon that will lift your payload,
>however. According to Hank Riley's Liftwin 0.411, a 100 gm Totex
>with a 2 lb flight string and a nozzle lift of 6.5 lbs would get
>you over 1300 fpm ascent rate and a burst at about 10,000 ft.
>(Although we've seen balloons with predicted bursts of 15K' go above
>40k'!) The entire flight would last under 15 minutes, so you
>wouldn't have to travel far to therecovery site.
>
>And that would require just half a K bottle of He.
>
>Anyway, congratulations on your first flight AND a 100% recovery rate!
>

>73 de Mike W5VSI, EOSS
>
>
>ChrisV01@... wrote:
>
>
>>My first attempt at a free balloon flight failed this morning. The payload
>>string consisted of a box near the balloon envelope with timers and a flight
>>termination system, 6-7ft further down the flight string was a camera set to
>>take pictures every 10 seconds with a parachute 6ft after that. The total weight
>>of the flight string was 2lbs.
>>
>>I had been worried about a rapid rate of climb because greater wind speeds at
>>altitude might take the balloon further than I wanted it to go. After
>>filling, the entire flight string had a free lift of only 0.5lbs. It became obvious
>>this was far too little. After launch, the balloon traveled horizontally,
>>slightly faster than I could run, and lodged up in a tree.
>>
>>The camera worked. It took 1 test picture before launched, one of me chasing
>>the flight string and 22 of tree branches. Though the film hasn't been
>>developed yet, this is a good bet.
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>>I am hoping to conduct a flight in the next few days using a smaller, and
>>cheaper, balloon. I am planning to put just the transmitter and one recovery
>>system on this next test flight.
>>
>>On a separate note I now have a functioning Yagi antenna. The design is a
>>copy of one on the net that is specifically designed to be matched without
>>needing anything other than coper wire and coax. It seems to work and I have
>>tracked the transmitter down 5 timers over short distances (less that 1/2 mile).
>>_____
>>Balloons-Rockets mailing list
>>Balloons-Rockets@...
>>http://mailman.qth.net/mailman/listinfo/balloons-rockets
>>
>>
>
>
>

1118. Fw: World Year of Physics 2005 January Newsletter

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-12 12:08:18 UTC
From: Ralph Wallio, W0RPK
Topic: 1118 Message: 1118

----- Original Message -----
From: "World Year of Physics 2005 " <sathyash@...>
To: <wallio@...>
Sent: Tuesday, January 11, 2005 4:26 PM
Subject: World Year of Physics 2005 January Newsletter

****

World Year of Physics 2005 Newsletter - January 2005

"Help Make 2005 Another Miraculous Year"

****
In this issue:

1. Sign-up Deadlines: January 31, 2005

2. International Launch Event in Paris: Physics for Tomorrow

3. Physics Enlightens the World

4. Physics Across the World International Poster Competition

5. Get Inside a Physicist's Head!

6. WYP T-Shirts

7. 2005 Event Finder now online!

****

Happy World Year of Physics 2005! What we've all been waiting for is finally here.

You're receiving this message because you signed up to be on the list at our website or at an APS, AAPT or other scientific meeting. This newsletter, containing information about the upcoming World Year of Physics 2005, is distributed approximately every six weeks.

1. Sign-up Deadlines: January 31, 2005

If you're a middle school or high school teacher, the deadline to sign-up for our classroom projects is January 31, 2005.

PhysicsQuest is our investigative hunt for middle school students. http://www.physics2005.org/events/physicsquest/index.html

High school students can team up with other students to Measure the Radius of the Earth. http://www.physics2005.org/events/eratosthenes/index.html

Teachers guides will be online soon. If you've already signed up, you'll be receiving information very soon.

2. International Launch Event in Paris: Physics for Tomorrow

"Physics for Tomorrow" will take place January 13-15 in Paris, and will be open to the general public. It will aim to capture the attention of the international press and media, so that events and celebrations organized around the world throughout the year will attract public and media attention. For more information, click on: http://www.physics2005.org/international.html . You can also get live updates on the conference from APS News reporter Ernie Tretkoff at http://www.physics2005.org/wypblog .

3. Physics Enlightens the World

In the World Year of Physics 2005 as many people as possible should get the feeling to be part of a great physics community spanning the whole globe. "Physics enlightens the world" is an endeavour to achieve just that: A world-wide relay of light to commemorate the 50th anniversary of Albert Einstein's death on April 18, 2005. For more information, click on: http://www.physics2005.org/events/projects.html

4. Physics Across the World International Poster Competition

A poster competition for students aged 10 - 16 years to mark the World Year of Physics in 2005. Students can create their own colourful posters to show how physics applications makes their lives better and has a positive impact on their everyday lives. For more information, click on: http://www.physics2005.org/events/projects.html

5. Get Inside a Physicist's Head! Only on the Quantum Diaries Website.

Who travels the world in search of the unknown? A pirate? An international spy? No! A physicist! Quantum Diaries will follow the lives of scientists from around the world as they live the World Year of Physics 2005. In their own words, in photos, blogs, and videos, it will tell the real-life stories of real physicists in real time. Launching Thursday, January 13! Sign up for a launch announcement and e-mail updates today at: http://www.quantumdiaries.org

6. WYP T-Shirts

World Year of Physics T-Shirts are now available. Look as smart as you really are in a WYP T-shirt. Get your's today at: http://www.spsnational.org/societynews/2005WYP_shirts.htm

7. 2005 Event Finder now online!

The WYP2005 Online Event Finder is now available. We want to hear about YOUR World Year of Physics event in the United States. Add your open house, public lecture, lab tour, or physics demonstrations to our online event finder so others in your area (and around the country) can find out about your events.

Click here to submit your events:
http://www.physics2005.org/events/submit.html

****

For more information on the World Year of Physics 2005, email vinaya@...
or visit our website at http://www.physics2005.org.

1119. Website to Check Out

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-18 21:20:30 UTC
From: paul.verhage@boiseschools.org
Topic: 1119 Message: 1119

When you get the chance, check out the following webpage,

http://www2.jpl.nasa.gov/ambassador/profiles/Paul_Verhage.htm

Paul

1120. EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-29 00:43:37 UTC
From: Mike Manes
Topic: 1120 Message: 1120

Hi Folks,

Chris Koelhler and I chatted today about some of the upcoming
EOSS flights, summarized:

1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and
conflicting with GPSL '05, could move to 16/17 July to join up
the StudentSat 4 Workshop 1 x heavy, where Mt State could so the
heavy lifting for the Workshop launch. This would be a 3x, however,
and would still require 45 minute launch interval, and Mt State
may not be willing to do a 3000 gm launch.

If these are overcome, how many of you in EOSS will be willing to
go to Omaha for GPSL and also work the 3-fer on 16/17 Jul?

2. Chris asked us to consider moving the DemoSat 3 flight up a week
from 6/7 Aug to 30/31 July, 2 weeks after the above 3-fer. This
will leave Aug '05 latex-free.

Does this conflict with anyone's plans?

3. The USAFRL SHOT 4 flight on the docket for TBD late summer won't
go until spring '06.

4. Pending FAA approval of U Ky Big Blue glider free-flight with
portable TRACON radar collision avoidance provided by NASA Ames, Big
Blue 4 is on the docket for 17/18 Sept.

Let me know at your earliest convenience if there are any concerns
with going ahead with these changes.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1121. RE: [EOSS_LT] EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-29 01:24:27 UTC
From: Marty Griffin
Topic: 1120 Message: 1121

Hi Mike,

Maybe this schedule shake-up will let N0PUF join us for a few flights! I'm OK with this plan, but questionable for the Big Blue flight September 17/18. However Larry N0NDM can nicely handle the flight and I'll ask him about it. OK for Omaha - finest place you ever saw!

Good luck with the coordination of these plans! Let us little people know when the plan settles down as we all have changes to make.

- Marty, WA0GEH

-----Original Message-----
From: Mike Manes [mailto:manes@...]
Sent: Friday, January 28, 2005 5:44 PM
To: EOSS membership reflector; Eoss Launch Team reflector; EOSS T&R reflector
Cc: GPSL Reflector; Chris Koehler - CU Space Grant
Subject: [EOSS_LT] EOSS/Colo SGC launch sked - GPSL '05 possible

Hi Folks,

Chris Koelhler and I chatted today about some of the upcoming EOSS flights, summarized:

1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and conflicting with GPSL '05, could move to 16/17 July to join up the StudentSat 4 Workshop 1 x heavy, where Mt State could so the heavy lifting for the Workshop launch. This would be a 3x, however, and would still require 45 minute launch interval, and Mt State may not be willing to do a 3000 gm launch.

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4. Pending FAA approval of U Ky Big Blue glider free-flight with portable TRACON radar collision avoidance provided by NASA Ames, Big Blue 4 is on the docket for 17/18 Sept.

Let me know at your earliest convenience if there are any concerns with going ahead with these changes.

73 de Mike W5VSI

--

Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

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----------~->

Yahoo! Groups Links

1122. RE: [GPSL] EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-29 15:52:49 UTC
From: Mark Conner
Topic: 1120 Message: 1122

This indeed is good news if EOSS can make the trip east after all!

73 de Mark N9XTN

-----Original Message-----
From: Mike Manes [mailto:manes@...]
Sent: Friday, January 28, 2005 18:44
To: EOSS membership reflector; Eoss Launch Team reflector; EOSS T&R reflector
Cc: GPSL Reflector; Chris Koehler - CU Space Grant
Subject: [GPSL] EOSS/Colo SGC launch sked - GPSL '05 possible

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1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and conflicting with GPSL '05, could move to 16/17 July to join up the StudentSat 4 Workshop 1 x heavy, where Mt State could so the heavy lifting for the Workshop launch. This would be a 3x, however, and would still require 45 minute launch interval, and Mt State may not be willing to do a 3000 gm launch.

If these are overcome, how many of you in EOSS will be willing to go to Omaha for GPSL and also work the 3-fer on 16/17 Jul?

1123. Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-29 21:35:26 UTC
From: Mark Conner
Topic: 1123 Message: 1123

Below is a draft announcement suitable for sending to club newsletters, etc., regarding this year's GPSL. Please let me know of additions, corrections, or style changes you'd like to see. I'd like to send this to area clubs shortly. I'd also like to send a shorter version to QST, CQ, and CQ-VHF.

73 de Mark N9XTN

==========

The fifth annual Great Plains Super Launch (GPSL) is scheduled for July 1-2, 2005, in Omaha, Nebraska. This year□s event will be hosted by Nebraska Stratospheric Amateur Radio (NSTAR). The GPSL brings together amateur radio high-altitude ballooning groups from across the United States to this two-day event. On Friday, July 1st, a conference will be held where presenters will discuss the latest technology, techniques, and accomplishments in the community. Saturday morning will feature the launch of multiple balloons with their payloads, which are then tracked and recovered within a few hours. If the weather is unfavorable for flying on Saturday the 2nd, the backup flight date is Sunday the 3rd.

Amateur radio high-altitude ballooning features the use of lightweight balloon-borne payloads which are tracked by radio and subsequently recovered and reused on future flights. The simplest of these payloads contain a GPS for tracking the position of the payload, a radio modem for encoding the data, and a radio for transmitting the data to ground stations. More complex payloads may contain cameras, scientific instruments such as Geiger counters, or additional radios for communications experiments. These flights frequently reach near-space altitudes of 80,000 ft or more during their two-to-four-hour flights, and must endure temperatures of -75°F and pressures less than 1% of that at the earth□s surface. Flight distances are dependent on the wind, but can be anywhere from just a few miles to a few hundred miles. Most, however, are 20 to 100 miles. The groups also adhere to FAA regulations regarding unmanned free balloons during their operations.

Tracking is performed with the amateur radio community□s Automatic Position Reporting System (APRSTM). APRS uses the packet radio standard 1200-baud transmissions in the 2-meter amateur radio band with the location information encoded in the data packet. This allows the ground stations to track the balloon□s position to an accuracy of 60 feet or better. Other payloads typically use amateur radio frequencies in the 2-meter or 70-centimeter bands.

Anyone with an interest in high-altitude ballooning is invited to attend the conference, balloon launch, or both. The conference and launch sites are yet to be finalized, but will be within a 30-mile radius of central Omaha.

The latest information on the 2005 GPSL will be posted to the event□s web site at <http://www.superlaunch.org/> http://www.superlaunch.org. Questions can be directed to Mark Conner, N9XTN, at <mailto:n9xtn@...> n9xtn@cox.net.

1124. Re: [EOSS_Trackers] RE: [EOSS_LT] EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-30 03:55:12 UTC
From: Mike Manes
Topic: 1124 Message: 1124

Hi Marty,

Well, this is what Chris and Suzanne desire, and I'm just asking
the gang if there are any impediments to making it happen. So far,
so good!

And I'm up for a trip to Omaha this year as well. Hope we get
enough to do a launch and recovery.

73 de Mike W5VSI

Marty Griffin wrote:
>
> Hi Mike,
>
> Maybe this schedule shake-up will let N0PUF join us for a few flights! I'm
> OK with this plan, but questionable for the Big Blue flight September 17/18.
> However Larry N0NDM can nicely handle the flight and I'll ask him about it.
> OK for Omaha - finest place you ever saw!
>
> Good luck with the coordination of these plans! Let us little people know
> when the plan settles down as we all have changes to make.
>
> - Marty, WA0GEH
>
>
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Friday, January 28, 2005 5:44 PM
> To: EOSS membership reflector; Eoss Launch Team reflector; EOSS T&R
> reflector
> Cc: GPSL Reflector; Chris Koehler - CU Space Grant
> Subject: [EOSS_LT] EOSS/Colo SGC launch sked - GPSL '05 possible
>
> Hi Folks,
>
> Chris Koelhler and I chatted today about some of the upcoming EOSS flights,
> summarized:
>
> 1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and conflicting
> with GPSL '05, could move to 16/17 July to join up the StudentSat 4 Workshop
> 1 x heavy, where Mt State could so the heavy lifting for the Workshop
> launch. This would be a 3x, however, and would still require 45 minute
> launch interval, and Mt State may not be willing to do a 3000 gm launch.

>
> If these are overcome, how many of you in EOSS will be willing to
> go to Omaha for GPSL and also work the 3-fer on 16/17 Jul?
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> 2. Chris asked us to consider moving the DemoSat 3 flight up a week from 6/7
> Aug to 30/31 July, 2 weeks after the above 3-fer. This will leave Aug '05
> latex-free.
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> Does this conflict with anyone's plans?
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> spring '06.
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> 4. Pending FAA approval of U Ky Big Blue glider free-flight with portable
> TRACON radar collision avoidance provided by NASA Ames, Big Blue 4 is on the
> docket for 17/18 Sept.
>
> Let me know at your earliest convenience if there are any concerns with
> going ahead with these changes.
>
> 73 de Mike W5VSI
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
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>
> ------------------------ Yahoo! Groups Sponsor ----------------------~--> What
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1125. Re: [GPSL] Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-30 07:04:14 UTC
From: Mike Manes
Topic: 1123 Message: 1125

Hi Mark,

Scuttle the html and send it Pure-D ASCII. It'll import to publishing software a WHOLE lot easier!

73 de Mike W5VSI

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1126. Re: [GPSL] Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-30 14:24:15 UTC
From: Ralph Wallio, W0RPK
Topic: 1123 Message: 1126

Mark,

Thanks for hosting and managing all the details that will make GPSL 2005 an event to remember!

Perhaps the best way to relate my suggestions is to offer another version. You are welcome to use all/part/none of this as you see fit.

Regardless, the ARRL may decide to use your announcement in QST, W1AW bulletins and/or their web page. We could also send it to AMSAT for use in their weekly bulletins and/or the AMSAT Journal.

The fifth annual Great Plains Super Launch (GPSL) will be held July 1-3, 2005, in Omaha, Nebraska, hosted by Nebraska Stratospheric Amateur Radio (NSTAR). GPSL 2005 will bring together Amateur Radio high altitude ballooning groups to share information and participate in simultaneous flights.

Discussions on Friday will cover technology, techniques and accomplishments in the community. Super Launch on Saturday morning will involve several simultaneous flights which will be launched, tracked and recovered all within a few hours. We will try again on Sunday if weather is unfavorable for flying on Saturday.

Amateur Radio high altitude ballooning uses lightweight balloon-borne payloads which are tracked by radio, recovered and then reused on future flights. Payloads usually contain GPS receivers and report position using Amateur Radio APRS techniques (Automatic Position Reporting System). Payloads often include cameras, scientific instruments, and radio equipment for communications experiments.

Flights frequently exceed near-space altitude of 80,000ft, endure very cold temperature often lower than -70dF and atmospheric pressure less than 1% of that at the earth's surface. Flight distance and direction are predictable from a few to several hundred miles depending on winds aloft. Amateur Radio high altitude balloon flights in the USA adhere to FAA regulations for unmanned free balloons.

Participation in GPSL 2005 is open to everyone interested in Amateur Radio high altitude ballooning regardless of experience in either Amateur Radio or ballooning. Updated GPSL 2005 information will be posted at http://www.superlaunch.org/. Direct questions to Mark Conner, N9XTN, via n9xtn@....

A few specific thoughts --

Amateur Radio is usually capitalized (as is Ham)

Perhaps we shouldn't discourage international participation by saying "United States".

Conference - Seminar - Symposium -- which ever feels best

Our simplest payloads do not include GPS receivers. They include radio telemetry beacons recovered using direction finding (fox hunting) techniques.

"Radio modem" doesn't seem quite right but neither does TNC (because we often use Tiny Tracks, MIM-modules, etc., which only encode and MOdulate (not decode and DEModulate).

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1127. Re: [GPSL] EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 14:24:47 UTC
From: paul.verhage@boiseschools.org
Topic: 1120 Message: 1127

Mike, if you can move Upward Bound, I can make a trip to help out.

Paul

> Hi Folks,
>
> Chris Koelhler and I chatted today about some of the upcoming
> EOSS flights, summarized:
>
> 1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and
> conflicting with GPSL '05, could move to 16/17 July to join up
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> Let me know at your earliest convenience if there are any concerns
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> 73 de Mike W5VSI
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> Mike Manes manes@... Tel: 303-979-4899
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> Einstein
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> Yahoo! Groups Links
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1128. Re: [GPSL] Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 14:31:00 UTC
From: paul.verhage@boiseschools.org
Topic: 1123 Message: 1128

I'd like to be able to send this to Nuts and Volts, if that's alright. Since I get paid per page, I'll turn over the monry for the page length of the announcement over to Mark to help support GPSL 2005. Mark, do you have a photograph you'd like me to send in with the announcement?

Paul

> Below is a draft announcement suitable for sending to club newsletters,
> etc., regarding this year's GPSL. Please let me know of additions,
> corrections, or style changes you'd like to see. I'd like to send this to
> area clubs shortly. I'd also like to send a shorter version to QST, CQ, and
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>
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>
> 73 de Mark N9XTN
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> 2005, in Omaha, Nebraska. This year□s event will be hosted by Nebraska
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> high-altitude ballooning groups from across the United States to this
> two-day event. On Friday, July 1st, a conference will be held where
> presenters will discuss the latest technology, techniques, and
> accomplishments in the community. Saturday morning will feature the launch
> of multiple balloons with their payloads, which are then tracked and
> recovered within a few hours. If the weather is unfavorable for flying on
> Saturday the 2nd, the backup flight date is Sunday the 3rd.
>
>
>
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> balloon-borne payloads which are tracked by radio and subsequently recovered
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> counters, or additional radios for communications experiments. These
> flights frequently reach near-space altitudes of 80,000 ft or more during
> their two-to-four-hour flights, and must endure temperatures of -75°F and

> pressures less than 1% of that at the earth□s surface. Flight distances are
> dependent on the wind, but can be anywhere from just a few miles to a few
> hundred miles. Most, however, are 20 to 100 miles. The groups also adhere
> to FAA regulations regarding unmanned free balloons during their operations.
>
>
>
> Tracking is performed with the amateur radio community□s Automatic Position
> Reporting System (APRSTM). APRS uses the packet radio standard 1200-baud
> transmissions in the 2-meter amateur radio band with the location
> information encoded in the data packet. This allows the ground stations to
> track the balloon□s position to an accuracy of 60 feet or better. Other
> payloads typically use amateur radio frequencies in the 2-meter or
> 70-centimeter bands.
>
>
>
> Anyone with an interest in high-altitude ballooning is invited to attend the
> conference, balloon launch, or both. The conference and launch sites are
> yet to be finalized, but will be within a 30-mile radius of central Omaha.
> The latest information on the 2005 GPSL will be posted to the event□s web
> site at <http://www.superlaunch.org/> http://www.superlaunch.org.
> Questions can be directed to Mark Conner, N9XTN, at <mailto:n9xtn@...>
> n9xtn@....
>
>
>
>

1129. Re: [GPSL] Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 14:32:55 UTC
From: paul.verhage@boiseschools.org
Topic: 1123 Message: 1129

Should all the words in Amateur Radio High Altitude Ballooning be captialized?

Paul

1130. Re: [GPSL] Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 15:12:35 UTC
From: Ralph Wallio, W0RPK
Topic: 1123 Message: 1130

In my opinion it is reasonable for us to consider our hobby worthy of using all capitals:

Amateur Radio High Altitude Ballooning

I have been using ARHAB (which is almost pronounceable) pending better suggestions.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1131. RE: [GPSL] Draft GPSL 2005 announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 18:47:25 UTC
From: Mark Conner
Topic: 1123 Message: 1131

Ralph,

Thanks for re-drafting the announcement. I would like to wedge in something to the effect that most of our operations will be on 2m and 70cm, so people will know that the radio equipment they probably have on hand will receive our signals (as opposed to specialized radios, etc).

I'll have another version out shortly. I was trying to make something generic enough to use in non-ham publications, but may have to make separate ones (non-ham version less technical).

- Mark

-----Original Message-----
From: Ralph Wallio, W0RPK [mailto:wallio@...]
Sent: Sunday, January 30, 2005 08:24
To: Mark Conner, N9XTN
Cc: GPSL
Subject: Re: [GPSL] Draft GPSL 2005 announcement

Mark,

Thanks for hosting and managing all the details that will make GPSL 2005 an event to remember!

Perhaps the best way to relate my suggestions is to offer another version. You are welcome to use all/part/none of this as you see fit.

Regardless, the ARRL may decide to use your announcement in QST, W1AW bulletins and/or their web page. We could also send it to AMSAT for use in their weekly bulletins and/or the AMSAT Journal.

The fifth annual Great Plains Super Launch (GPSL) will be held July 1-3, 2005, in Omaha, Nebraska, hosted by Nebraska Stratospheric Amateur Radio (NSTAR). GPSL 2005 will bring together Amateur Radio high altitude ballooning groups to share information and participate in simultaneous flights.

Discussions on Friday will cover technology, techniques and accomplishments in the community. Super Launch on Saturday morning will involve several simultaneous flights which will be launched, tracked and recovered all within a few hours. We will try again on Sunday if weather is unfavorable for flying on Saturday.

Amateur Radio high altitude ballooning uses lightweight balloon-borne payloads which are tracked by radio, recovered and then reused on future flights. Payloads usually contain GPS receivers and report position using Amateur Radio APRS techniques (Automatic Position Reporting System).

Payloads often include cameras, scientific instruments, and radio equipment for communications experiments.

Flights frequently exceed near-space altitude of 80,000ft, endure very cold temperature often lower than -70dF and atmospheric pressure less than 1% of that at the earth's surface. Flight distance and direction are predictable from a few to several hundred miles depending on winds aloft. Amateur Radio high altitude balloon flights in the USA adhere to FAA regulations for unmanned free balloons.

Participation in GPSL 2005 is open to everyone interested in Amateur Radio high altitude ballooning regardless of experience in either Amateur Radio or ballooning. Updated GPSL 2005 information will be posted at http://www.superlaunch.org/. Direct questions to Mark Conner, N9XTN, via n9xtn@....

A few specific thoughts --

Amateur Radio is usually capitalized (as is Ham)

Perhaps we shouldn't discourage international participation by saying "United States".

Conference - Seminar - Symposium -- which ever feels best

Our simplest payloads do not include GPS receivers. They include radio telemetry beacons recovered using direction finding (fox hunting) techniques.

"Radio modem" doesn't seem quite right but neither does TNC (because we often use Tiny Tracks, MIM-modules, etc., which only encode and MOdulate (not decode and DEModulate).

TNX es 73 de Ralph Wallio, WØRPK
wallio@crosspaths.net
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1132. Fw: FAA changes

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 20:01:50 UTC
From: Ralph Wallio, W0RPK
Topic: 1132 Message: 1132

I don't know any more about this than found below and a quick Google of 'A-76 FAA'. -w0rpk

----- Original Message -----
From: "John C Nordlie" <nordlie@...>
To: <ndra@...>; <balloons@...>
Sent: Monday, January 31, 2005 1:48 PM
Subject: FAA changes

Greetings.

A heads-up for everyone who might not have heard, the FAA's
Air Traffic Control is being outsourced. The FAA will announce the
winner of the A-76 contract at 3PM on tuesday, February 1, 2005.

I've been in touch with our FAA liason about this, and he said that
the Part 101 stuff is being specifically excluded from the contract
statement. What this means for rocket and balloon activities is that
handling of NOTAMS and waivers will not be handled through Flight
Service in Grand Forks after the transfer date (probably next fall).
FSDO (Flight Service Disctrict Office), or some other office
will handle it, he didn't know. Given the fact that he didn't know
if he'll have a job after the transfer, I didn't feel it was the right
time to press him for more details.

He said there will be a press conference at the GFK Station tomorrow
afternoon (tuesday, Feb 1), so keep your ears open for any more info.

Plug 'A-76' into google or any other search engine for more info
on this whole mess. I'll be sure to relay any more info as I come
across it. It's hard to guess what effect this will have on balloon
and rocket activities at this time.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
http://blizzard.rwic.und.edu/~nordlie/
==========

All opinions expressed here are those of the author and do
not represent the balloon group. This message should not
be considered an official comunication from the group.

1133. RE: [GPSL] Fw: FAA changes

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 20:57:24 UTC
From: Mark Conner
Topic: 1132 Message: 1133

The A-76 to be announced shortly is related to Flight Service Stations,
which is where most of us enter NOTAMs for balloon flights.

My guess is that other 24/7 FAA operations, such as TRACONs or ARTCCs, will
become responsible for Part 101-related NOTAMs. I don't believe FSDOs are
24/7.

73 de Mark N9XTN

-----Original Message-----
From: Ralph Wallio, W0RPK [mailto:wallio@...]
Sent: Monday, January 31, 2005 14:02
To: GPSL
Subject: [GPSL] Fw: FAA changes

I don't know any more about this than found below and a quick Google of
'A-76 FAA'. -w0rpk

----- Original Message -----
From: "John C Nordlie" <nordlie@...>
To: <ndra@...>; <balloons@...>
Sent: Monday, January 31, 2005 1:48 PM
Subject: FAA changes

Greetings.

A heads-up for everyone who might not have heard, the FAA's
Air Traffic Control is being outsourced. The FAA will announce the
winner of the A-76 contract at 3PM on tuesday, February 1, 2005.

I've been in touch with our FAA liason about this, and he said that
the Part 101 stuff is being specifically excluded from the contract
statement. What this means for rocket and balloon activities is that
handling of NOTAMS and waivers will not be handled through Flight
Service in Grand Forks after the transfer date (probably next fall).
FSDO (Flight Service Disctrict Office), or some other office
will handle it, he didn't know. Given the fact that he didn't know
if he'll have a job after the transfer, I didn't feel it was the right
time to press him for more details.

He said there will be a press conference at the GFK Station tomorrow
afternoon (tuesday, Feb 1), so keep your ears open for any more info.

Plug 'A-76' into google or any other search engine for more info
on this whole mess. I'll be sure to relay any more info as I come
across it. It's hard to guess what effect this will have on balloon
and rocket activities at this time.

==
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
http://blizzard.rwic.und.edu/~nordlie/
==

All opinions expressed here are those of the author and do
not represent the balloon group. This message should not
be considered an official comunication from the group.

Yahoo! Groups Links

1134. Revised GPSL flight announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 21:08:51 UTC
From: Mark Conner
Topic: 1134 Message: 1134

I decided not to put in freq/band information as it was long enough as is, but did add a sentence about student experiments to indicate there is a public service aspect to this. The short version is more for something like QST's "Strays".

For a picture, I'll probably submit a higher-resolution version of this unless someone has another suggestion:
http://www.nstar.org/NSTAR/NSTAR04D-launch.jpg

73 de Mark N9XTN

Long version:

The fifth annual Great Plains Super Launch (GPSL) will be held July 1-3, 2005, in Omaha, Nebraska, hosted by Nebraska Stratospheric Amateur Radio (NSTAR). GPSL 2005 will bring together Amateur Radio High Altitude Ballooning groups to share information and participate in simultaneous flights.

Friday, July 1st, features a conference which will cover technology, techniques and accomplishments in the community. The Super Launch on Saturday morning will involve several simultaneous flights which will be launched, tracked and recovered all within a few hours. Sunday is the alternate flight date if Saturday is unfavorable.

Amateur Radio High Altitude Ballooning uses lightweight balloon-borne payloads which are tracked by radio, recovered and then reused on future flights. Payloads usually contain GPS receivers and report position to ground stations using Amateur Radio□s APRS (Automatic Position Reporting System). Payloads can also include cameras, scientific instruments, and radio equipment for communications experiments. Many ballooning groups fly student-designed experiments as part of their missions.

Flights frequently achieve near-space altitudes of 80,000 feet or higher, endure very cold temperatures often lower than -70°F and atmospheric pressure less than 1% of that at the earth's surface. Flight distance can vary from a few to several hundred miles depending on winds aloft, and the flight□s path is predicted before launch. Amateur Radio High Altitude Balloon flights in the USA adhere to FAA regulations for unmanned free balloons.

Participation in GPSL 2005 is open to everyone interested in Amateur Radio High Altitude Ballooning regardless of experience in either Amateur Radio or ballooning. Updated GPSL 2005 information will be posted at http://www.superlaunch.org/. Direct questions to Mark Conner, N9XTN, via n9xtn@....

Short version:

July 1-3, 2005: Fifth annual Great Plains Super Launch (GPSL), Omaha, NE. Amateur Radio High Altitude Ballooning conference on Friday, July 1, and multiple simultaneous balloon flights on Saturday. Backup flight date is Sunday. See http://www.superlaunch.org for more information or contact Mark Conner N9XTN at n9xtn@....

1135. Re: [GPSL] Revised GPSL flight announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 21:13:37 UTC
From: paul.verhage@boiseschools.org
Topic: 1134 Message: 1135

> For a picture, I'll probably submit a higher-resolution version of this
> unless someone has another suggestion:
> http://www.nstar.org/NSTAR/NSTAR04D-launch.jpg

Oh good, that's not the one of me falling.

;=)

Paul

1136. Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 21:52:40 UTC
From: Gene Harlan
Topic: 1136 Message: 1136

So, who sent up the balloon this last Saturday in Ohio (or Michigan that ended up in Ohio)? I heard the packet on 144.34 MHz or I
would not have know about it at all. It was at 50-60K when I first heard it, and maybe 235 miles per the D7.

I have the callsign at home, and the callsign said a Michigan address.

Copied the balloon with my D7 to 111,400 some feet and it almost disappeared right after that. The next reading I had after the peak
was 100,000 feet and it seemed like less than a minute after getting the high reading. Seemed like it was falling fast.

Just surprised I did not see any chatter about that balloon. Maybe there is a balloon list I am not on????

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

1137. RE: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 23:24:23 UTC
From: Mark Conner
Topic: 1136 Message: 1137

What is the callsign? I'd like to extract the track from FindU.

- Mark

-----Original Message-----
From: Gene Harlan [mailto:atvq@...]
Sent: Monday, January 31, 2005 15:53
To: EOSS balloons; BATS mailing list; Ballooning; GPSL; TVNSP
Subject: [GPSL] Balloon over Ohio

So, who sent up the balloon this last Saturday in Ohio (or Michigan that ended up in Ohio)? I heard the packet on 144.34 MHz or I would not have know about it at all. It was at 50-60K when I first heard it, and maybe 235 miles per the D7.

I have the callsign at home, and the callsign said a Michigan address.

Copied the balloon with my D7 to 111,400 some feet and it almost disappeared right after that. The next reading I had after the peak was 100,000 feet and it seemed like less than a minute after getting the high reading. Seemed like it was falling fast.

Just surprised I did not see any chatter about that balloon. Maybe there is a balloon list I am not on????

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

Yahoo! Groups Links

1138. RE: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 23:31:53 UTC
From: Mark Conner
Topic: 1136 Message: 1138
Attachments: 1 described; binary payloads are missing from this source WARC

.....provided someone was I-gating it, of course......

Also, here's the picture Paul mentioned so everyone else can enjoy.

73 de Mark N9XTN

-----Original Message-----
From: Mark Conner [mailto:n9xtn@...]
Sent: Monday, January 31, 2005 17:24
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Balloon over Ohio

What is the callsign? I'd like to extract the track from FindU.

- Mark

-----Original Message-----
From: Gene Harlan [mailto:atvq@...]
Sent: Monday, January 31, 2005 15:53
To: EOSS balloons; BATS mailing list; Ballooning; GPSL; TVNSP
Subject: [GPSL] Balloon over Ohio

So, who sent up the balloon this last Saturday in Ohio (or Michigan that
ended up in Ohio)? I heard the packet on 144.34 MHz or I
would not have know about it at all. It was at 50-60K when I first heard it,
and maybe 235 miles per the D7.

I have the callsign at home, and the callsign said a Michigan address.

Copied the balloon with my D7 to 111,400 some feet and it almost disappeared
right after that. The next reading I had after the peak
was 100,000 feet and it seemed like less than a minute after getting the
high reading. Seemed like it was falling fast.

Just surprised I did not see any chatter about that balloon. Maybe there is
a balloon list I am not on????

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
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http://www.hampubs.com

Yahoo! Groups Links

Yahoo! Groups Links

1139. Re: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 23:32:44 UTC
From: Stephanie Steele
Topic: 1136 Message: 1139

Hi guys,

I think it was the Suntracker Balloon out of Ohio (KC8MSY) but they did
not transmit on the national APRS frequency and apparantly did not gate
their posits out to the Internet either. That's my guess anyway.

Stephanie

Mark Conner wrote:
> What is the callsign? I'd like to extract the track from FindU.
>
> - Mark
>
> -----Original Message-----
> From: Gene Harlan [mailto:atvq@...]
> Sent: Monday, January 31, 2005 15:53
> To: EOSS balloons; BATS mailing list; Ballooning; GPSL; TVNSP
> Subject: [GPSL] Balloon over Ohio
>
>
> So, who sent up the balloon this last Saturday in Ohio (or Michigan that
> ended up in Ohio)? I heard the packet on 144.34 MHz or I
> would not have know about it at all. It was at 50-60K when I first heard it,
> and maybe 235 miles per the D7.
>
> I have the callsign at home, and the callsign said a Michigan address.
>
> Copied the balloon with my D7 to 111,400 some feet and it almost disappeared
> right after that. The next reading I had after the peak
> was 100,000 feet and it seemed like less than a minute after getting the
> high reading. Seemed like it was falling fast.
>
> Just surprised I did not see any chatter about that balloon. Maybe there is
> a balloon list I am not on????
>
> Gene Harlan - WB9MMM
> NEW - Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> ATVQ@...
> 815-398-2683 - voice
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> http://www.hampubs.com
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> Yahoo! Groups Links
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Stephanie

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Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have
trouble remembering how to fly.

****

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not the intended recipient you are notified any disclosure,
dissemination, distribution, copying or the taking of any action based
upon the information contained in this message is strictly prohibited.

de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

IMPORTANT: This email is intended for the use of the
individual addressee(s) named above and may contain
information that is confidential privileged or unsuitable

for overly sensitive persons with low self-esteem, no
sense of humor or irrational religious beliefs. If you are
not the intended recipient, any dissemination, distribution
or copying of this email is not authorized (either explicitly
or implicitly) and constitutes an irritating social faux pas.
Unless the word absquatulation has been used in its
correct context somewhere other than in this warning,
it does not have any legal or grammatical use and may
be ignored. No animals were harmed in the transmission
of this email, although the kelpie next door is living on
borrowed time, let me tell you.

Those of you with an overwhelming fear of the unknown
will be gratified to learn that there is no hidden message
revealed by reading this warning backwards, so just ignore
that Alert Notice from Microsoft. However, by pouring a
complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

1140. Re: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 23:35:17 UTC
From: Stephanie Steele
Topic: 1136 Message: 1140

You know, I do stuff like that regularly and thank God that no one has captured it on film yet!

I'd give Paul an 8.5 for artistic impression and a 9.5 for effort for that event! No 10 because he apparantly escaped without fracturing any bones :-)

Stephanie

Mark Conner wrote:
> .....provided someone was I-gating it, of course......
>
> Also, here's the picture Paul mentioned so everyone else can enjoy.
>
> 73 de Mark N9XTN
>
> -----Original Message-----
> From: Mark Conner [mailto:n9xtn@...]
> Sent: Monday, January 31, 2005 17:24
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] Balloon over Ohio
>
>
> What is the callsign? I'd like to extract the track from FindU.
>
> - Mark
>
> -----Original Message-----
> From: Gene Harlan [mailto:atvq@...]
> Sent: Monday, January 31, 2005 15:53
> To: EOSS balloons; BATS mailing list; Ballooning; GPSL; TVNSP
> Subject: [GPSL] Balloon over Ohio
>
>
> So, who sent up the balloon this last Saturday in Ohio (or Michigan that
> ended up in Ohio)? I heard the packet on 144.34 MHz or I
> would not have know about it at all. It was at 50-60K when I first heard it,
> and maybe 235 miles per the D7.
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> I have the callsign at home, and the callsign said a Michigan address.
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> Copied the balloon with my D7 to 111,400 some feet and it almost disappeared
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> Harlan Technologies - publisher of Amateur Television Quarterly
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Stephanie

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Fate, luck, and chance are easy prey for preparation.

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Friends are quiet angels who lift us to our feet when our wings have
trouble remembering how to fly.

****

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not the intended recipient you are notified any disclosure,
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upon the information contained in this message is strictly prohibited.

de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

IMPORTANT: This email is intended for the use of the
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or implicitly) and constitutes an irritating social faux pas.
Unless the word absquatulation has been used in its
correct context somewhere other than in this warning,
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of this email, although the kelpie next door is living on
borrowed time, let me tell you.

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complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

1141. Re: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-01-31 23:36:14 UTC
From: Ralph Wallio, W0RPK
Topic: 1136 Message: 1141

It may have been Suntracker XIII (KC8MSY) by Wayne State University which I put in our Launch Announcements last Thursday afternoon and updated on Friday. I checked FINDU and APRSWORLD several times on Saturday but did not find anything. A few minutes ago I tried to dump a raw file but found nothing.

They have not updated their web page with flight results. Perhaps they used another callsign(?) I tried -11 and * but no joy.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1142. Re: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-01 00:22:58 UTC
From: mgray@ess-us.com
Topic: 1136 Message: 1142

You can search for all balloons by:

http://www.findu.com/cgi-bin/find.cgi?call=*-11

On Mon, 31 Jan 2005, Ralph Wallio, W0RPK wrote:

>
> It may have been Suntracker XIII (KC8MSY) by Wayne State University which I
> put in our Launch Announcements last Thursday afternoon and updated on
> Friday. I checked FINDU and APRSWORLD several times on Saturday but did not
> find anything. A few minutes ago I tried to dump a raw file but found
> nothing.
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> They have not updated their web page with flight results. Perhaps they used
> another callsign(?) I tried -11 and * but no joy.
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> TNX es 73 de Ralph Wallio, W?RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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1143. Re: [EOSS] Re: [Ballooning] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-01 04:10:33 UTC
From: Gene Harlan
Topic: 1143 Message: 1143

I am home and have my notes and yes, it was KC8MSY. The highest altitude on my D7 was 111,446. I was taking the lat and lon and typing it into MapQuest every once in awhile.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

----- Original Message -----
From: "Phil Manor" <w8ic@...>
To: "EOSS balloons" <EOSS@yahoogroups.com>; "BATS mailing list" <BATS@...>; "Ballooning" <Ballooning@yahoogroups.com>; "GPSL" <GPSL@yahoogroups.com>; "TVNSP" <tvnsp@yahoogroups.com>; "Gene Harlan" <atvq@...>
Sent: Monday, January 31, 2005 6:46 PM
Subject: [EOSS] Re: [Ballooning] Balloon over Ohio

Here is the info on the Saturday Jan 29,2005 flight you are asking about.
73 Phil W8IC

The launch of Suntracker XIII will be from Portland, IN and is scheduled for 10:00 a.m., Saturday, January 29th. The latest forecast predicts surface winds of 7 mph, and a northeasterly range of 72 miles with a landing about three miles west of Warton, OH (N40.856, W83505). Please inform me if you are interested in assisting with the launch, recovery, communications, porting the data to the Internet, or recording data on 2 m or video on 70 cm. The hardware, frequencies and antenna orientations are available at www.suntracker.eng.wayne.edu. I may be contacted on 313.610.3038 on the day of the flight.
Thanks for your interest and notify me if you would like your name removed from the launch announcement or know of others that would like to be added to it.
Regards,
Jim KC8MSY

--
++
From: |
James R. Woodyard /|
Wayne State University / |\
Department of Electrical & Computer / | \
Engineering / | \

5050 Anthony Wayne / S2 | \
Detroit, MI 48202-3902 / | \
Office: (313) 577-3758 / | \
Laboratory: (313) 577-5798 /-------| \
FAX: (313) 577-1101 ----------|-------/
E-Mail: woodyard@... | XTC /
~^~^~^~^~^~^~^~^~^~^~^~^~^~^~^~^~^~^~

----- Original Message -----
From: "Gene Harlan" <atvq@...>
To: "EOSS balloons" <EOSS@yahoogroups.com>; "BATS mailing list"
<BATS@...>; "Ballooning" <Ballooning@yahoogroups.com>; "GPSL"
<GPSL@yahoogroups.com>; "TVNSP" <tvnsp@yahoogroups.com>
Sent: Monday, January 31, 2005 3:52 PM
Subject: [Ballooning] Balloon over Ohio

>
> So, who sent up the balloon this last Saturday in Ohio (or Michigan that
ended up in Ohio)? I heard the packet on 144.34 MHz or I
> would not have know about it at all. It was at 50-60K when I first heard
it, and maybe 235 miles per the D7.
>
> I have the callsign at home, and the callsign said a Michigan address.
>
> Copied the balloon with my D7 to 111,400 some feet and it almost
disappeared right after that. The next reading I had after the peak
> was 100,000 feet and it seemed like less than a minute after getting the
high reading. Seemed like it was falling fast.
>
> Just surprised I did not see any chatter about that balloon. Maybe there
is a balloon list I am not on????
>
> Gene Harlan - WB9MMM
> NEW - Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> ATVQ@...
> 815-398-2683 - voice
> 815-398-2688 - fax
> http://www.hampubs.com
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com

>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
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> Yahoo! Groups Links
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>

Yahoo! Groups Links

1144. Re: [GPSL] Balloon over Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-01 18:05:17 UTC
From: wb8elk@aol.com
Topic: 1136 Message: 1144

Hi All,

It was the KC8MSY Suntracker balloon out launched from Portland, Indiana....they were only transmitting on 144.34 and no one was I-gating it onto Findu....if anyone is in the Ohio/Indiana/Michigan area that would like to I-gate future Suntracker, I'm sure they were greatly appreciate it. I talked to Jim KC8MSY on his cell phone and this is what he reported on the recovery:

I believe it exceeded 111,000 feet and landed near Norwalk, Ohio and was quickly recovered in a field during the middle of a snowstorm (the local farmer had already found it).

73s de Bill WB8ELK

1145. Fw: Suntracker XIII Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-01 19:13:17 UTC
From: Ralph Wallio, W0RPK
Topic: 1145 Message: 1145

----- Original Message -----
From: "James R. Woodyard" <woodyard@...>
To: <undisclosed-recipients:>
Sent: Tuesday, February 01, 2005 12:41 PM
Subject: Suntracker XIII Summary

Below is a summary of the Suntracker XIII flight. Data and photographs
will be posted at suntracker@... in the next few days.
Thanks to all who reported data and signal levels.
Jim KC8MSY

Launch Date: January 29, 2005
Launch Location: Portland Municipal Airport, Portland, IN
Launch Coordinates: N40 Deg. 27.849 Minutes
W84 Deg. 58.969 Minutes
Launch Conditions: Snowing with 4 Knot surface winds and an air
temperature of about 1 degree Celsius
Balloon: Kaysam 3000 gm inflated in hangar with
240 cubic feet of helium and transported in a plastic bag to airstrip
for launching.
Weight: 5.9 lbs. scientific package and 1.1
lbs. train. See suntracker@... for details.
Launch Time: 11:51 AM
Average Ascent Rate: 738 Ft./Min.
Burst Altitude: 111,448 Ft.
Burst Coordinates: N41 Deg. 2.394 Min.
W83 Deg. 3.747 Min.
Burst Time: 2:20 PM
Landing Time: 3:05 PM
Landing Location: 4.8 Mi. South-Southeast of Norwalk, OH
Landing Coordinates: N41 Deg.11.0862 Min.
W82 Deg 33.8985 Min.
Retrieval Time: 4:08 PM
Range: 136.04 Miles

1146. Re: Upward Bound Launch...

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-02 01:22:09 UTC
From: Mike Manes
Topic: 1146 Message: 1146

Hi Chris,

Well, that's great news! Can we split off some of the StudentSat
payloads to the Upward Bound flight string to balance out the
two balloons to about 17 lb each? That will keep the landing sites
in reasonable proximity.

So far, the proposal to move Upward Bound from the 2 July GPSL date
to June 16/17 has been well-received by the EOSS crews, and many are
up for doing GPSL as well.

If I hear of no show-stoppers by this Friday 4 Feb, we'll make it so.

Thanks!

73 de Mike W5VSI

Chris Koehler wrote:
>
> Mike,
>
> Here is what I have found out.
>
> For the Upward Bound launch, we expect 8 payloads averaging 1.5 pounds.
>
> For the StudentSat IV workshop, we expect no more than 17 payloads averaging
> 1.25 pounds.
>
> Total payload weight for that day is expected to be 33.25 pounds (12 Upward
> Bound + 21.25 for Studentsat IV).
>
> We may grow in weight but bottom line, I think we will be able to do it with
> two EOSS heavy balloons. If Montana is there to help, we could do two EOSS
> 1200 gram and a Montana 1200 gram.
>
> On my end, I see no reason not to fly Upward Bound on July 16, 2005.
>
> Chris Koehler
> Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750
> spacegrant.colorado.edu

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.

Einstein

1147. Re: [GPSL] EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-02 01:02:43 UTC
From: Mike Manes
Topic: 1120 Message: 1147

Hi Paul,

Well, we'd be delighted to have you out to work with us again!

I'm getting some pretty favorable responses from the EOSS teams
so far, and Chris Koehler has indicated that he expects less than
40 lb of combined student payloads, which we could split between
two 3000 gm heavies. That relieves us of the 1.5 hr span of low
wind to accomodate FAA's 45-minute launch interval.

So don't feel compelled to lend a hand unless you want to. You'd
welcomed in any event!

73 de Mike W5VSI

paul.verhage@... wrote:
>
> Mike, if you can move Upward Bound, I can make a trip to help out.
>
> Paul
>
> >
> > Hi Folks,
> >
> > Chris Koelhler and I chatted today about some of the upcoming
> > EOSS flights, summarized:
> >
> > 1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and
> > conflicting with GPSL '05, could move to 16/17 July to join up
> > the StudentSat 4 Workshop 1 x heavy, where Mt State could so the
> > heavy lifting for the Workshop launch. This would be a 3x, however,
> > and would still require 45 minute launch interval, and Mt State
> > may not be willing to do a 3000 gm launch.
> >
> > If these are overcome, how many of you in EOSS will be willing to
> > go to Omaha for GPSL and also work the 3-fer on 16/17 Jul?
> >
> > 2. Chris asked us to consider moving the DemoSat 3 flight up a week
> > from 6/7 Aug to 30/31 July, 2 weeks after the above 3-fer. This
> > will leave Aug '05 latex-free.
> >
> > Does this conflict with anyone's plans?
> >
> > 3. The USAFRL SHOT 4 flight on the docket for TBD late summer won't
> > go until spring '06.
> >

> > 4. Pending FAA approval of U Ky Big Blue glider free-flight with
> > portable TRACON radar collision avoidance provided by NASA Ames, Big
> > Blue 4 is on the docket for 17/18 Sept.
> >
> > Let me know at your earliest convenience if there are any concerns
> > with going ahead with these changes.
> >
> > 73 de Mike W5VSI
> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
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> > Yahoo! Groups Links
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1148. Near Space Book

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-09 19:49:26 UTC
From: paul.verhage@boiseschools.org
Topic: 1148 Message: 1148

When you get a chance, check out this website.

http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp

The writing is a bit rough, since it was started five years ago. I'll be adding and updating the material over time.

Paul

1149. Thinking about balloons in education? These sites may help

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-11 14:53:05 UTC
From: Ralph Wallio, WØRPK
Topic: 1149 Message: 1149

Future Scientists and Engineers of America [pdf]
http://www.fsea.org/

Future Scientists and Engineers of America (FSEA)is "a national non profit organization which provides the structure, project material, documentation and workshop training necessary to establish after school technology clubs in K-12 schools." The organization has selected programs that can be easily and readily implemented in every school to give students an opportunity to work in teams and experience practical, hands-on engineering projects in ways that mirror what an engineer or scientist would do. The program involves the community, including students, parents, schools, businesses, technical and civic organizations, and universities and colleges as well PTA/PTO organizations. Participants are part of a local FSEA chapter, which consists of a sponsor, mentors, FSEA student members, a teacher and a parent coordinator. Information on how to join or start a chapter are provided on this website, along with links to websites created by some schools that are part of the program. Handbooks, guides and directories are also available to download. The Science Challenge Questions offers a collection of projects and questions intended to promote learning of specific concepts as participants engage in the projects. A short description and the full plan for each project is available to download free of charge.

Encyclopedia of Educational Technology [pdf, Macromedia Shockwave Player]
http://coe.sdsu.edu/eet/admin/index.htm

The Encyclopedia of Educational Technology (EET), published by San Diego State University Department of Educational Technology, offers a collection of short multimedia articles from various authors discussing topics related to the fields of instructional design, and education and training. The materials are meant for "students and novices to intermediate practitioners in these fields, who need a brief overview as a starting point to further research on specific topics." The Table of Contents is divided into the following main topics: Cognition and Learning, Analysis, Design, Development, Implementation, and Evaluation. For each subtopic the site provides a short explanation and related video demonstrations, images, or examples to help explain the topic, and links to related topics. Visitors will find overviews of topics such as Vygotsky's Zone of Proximal Development (ZPD), eLearning, Web accessibility, and authentic assessment. The Bibliography lists numerous references (some with links to online articles) used in writing the entries in this encyclopedia.

1150. Re: [GPSL] EOSS/Colo SGC launch sked - GPSL '05 possible

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-12 22:47:56 UTC
From: Mike Manes
Topic: 1120 Message: 1150

Hi Mark,

EOSS is good to go for GPSL '05! Put us back on the list, pls.

73 de Mike W5VSI

Mark Conner wrote:
>
> This indeed is good news if EOSS can make the trip east after all!
>
> 73 de Mark N9XTN
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Friday, January 28, 2005 18:44
> To: EOSS membership reflector; Eoss Launch Team reflector; EOSS T&R
> reflector
> Cc: GPSL Reflector; Chris Koehler - CU Space Grant
> Subject: [GPSL] EOSS/Colo SGC launch sked - GPSL '05 possible
>
> Hi Folks,
>
> Chris Koelhler and I chatted today about some of the upcoming EOSS flights,
> summarized:
>
> 1. The Upward Bound 2x heavy flight, now set for 2/3 July 05 and conflicting
> with GPSL '05, could move to 16/17 July to join up the StudentSat 4 Workshop
> 1 x heavy, where Mt State could so the heavy lifting for the Workshop
> launch. This would be a 3x, however, and would still require 45 minute
> launch interval, and Mt State may not be willing to do a 3000 gm launch.
>
> If these are overcome, how many of you in EOSS will be willing to
> go to Omaha for GPSL and also work the 3-fer on 16/17 Jul?
>
>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1151. Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-14 16:13:24 UTC
From: n9xtn@cox.net
Topic: 1151 Message: 1151

I'd like to put together some attendance numbers and other logistical details for this year's GPSL. Please e-mail me the following, even if your group is just coming to watch:

1. Group name
2. # of flights (payload trains) your group will launch
3. # of people attending conference with your group (approx.)
4. # of helium tanks you expect to pre-order (K or T - don't include spares)
5. # and size of balloons you expect to pre-order

This will help me determine how big of a conference room we'll need for Friday. I have not yet been able to make contact with Dr Larson at UNO regarding use of their facilities. There are a number of community colleges in the area that could be used, however.

I'll update the GPSL page at www.superlaunch.org with the new info once I have it compiled. I have not yet sent the "press release" to the various magazines, but hope to do so this week.

73 de Mark N9XTN

1152. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-14 16:18:13 UTC
From: paul.verhage@boiseschools.org
Topic: 1151 Message: 1152

I'll be there under my name.
I'll launch just one flight
I'll bring just myself
I'll need a tank and a half
I'll bring a 1500 gram balloon

I'm a Solar System Ambassador for JPL now, so I'd like to present on the Deep Impact mission during my presentation.

Paul

> I'd like to put together some attendance numbers and other logistical details for this year's GPSL. Please e-mail me the following, even if your group is just coming to watch:
>
> 1. Group name
> 2. # of flights (payload trains) your group will launch
> 3. # of people attending conference with your group (approx.)
> 4. # of helium tanks you expect to pre-order (K or T - don't include spares)
> 5. # and size of balloons you expect to pre-order
>
> This will help me determine how big of a conference room we'll need for Friday. I have not yet been able to make contact with Dr Larson at UNO regarding use of their facilities. There are a number of community colleges in the area that could be used, however.
>
> I'll update the GPSL page at www.superlaunch.org with the new info once I have it compiled. I have not yet sent the "press release" to the various magazines, but hope to do so this week.
>
> 73 de Mark N9XTN
>
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> Yahoo! Groups Links
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1153. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-14 17:34:39 UTC
From: wb8elk@aol.com
Topic: 1151 Message: 1153

1 Balloon flight train
2 or 3 members in my group
1 tank of helium
1500 gram balloon

- Bill WB8ELK

1154. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-14 20:11:59 UTC
From: Mike Manes
Topic: 1151 Message: 1154

Hi Mark,

Our responses to date:

1. Egde of Space Sciences
2. One
3. 5 committed to date, possibly up to 10 (TBD)
4. 2 @ K bottles (400 ft^3)
5. none (we will bring our own plus a couple of pibals).

For EOSS: So far, I have comittments from W5VSI, N0KKZ, WA0GEH plus
a couple others I failed to note at the last meeting. Let me and
Mark N9XTN know at your earliest convenience if you plan to join us
at GPSL 2005 in Omaha NE July 1-3 '05. I expect there'll be a few
spare seats in the EOSS convoy if you don't want to drive solo.

73 de Mike W5VSI

n9xtn@... wrote:
>
> I'd like to put together some attendance numbers and other logistical details for this year's GPSL. Please e-mail me the following, even if your group is just coming to watch:
>
> 1. Group name
> 2. # of flights (payload trains) your group will launch
> 3. # of people attending conference with your group (approx.)
> 4. # of helium tanks you expect to pre-order (K or T - don't include spares)
> 5. # and size of balloons you expect to pre-order
>
> This will help me determine how big of a conference room we'll need for Friday. I have not yet been able to make contact with Dr Larson at UNO regarding use of their facilities. There are a number of community colleges in the area that could be used, however.
>
> I'll update the GPSL page at www.superlaunch.org with the new info once I have it compiled. I have not yet sent the "press release" to the various magazines, but hope to do so this week.
>
> 73 de Mark N9XTN
>
>
> Yahoo! Groups Links
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>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1155. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 00:25:27 UTC
From: Zack Clobes
Topic: 1151 Message: 1155

1. Project: Traveler
2. 1 Flight
3. 1-2 attending the conference
4. We're not sure what we'll be flying, but we'll probably use a single
K or T tank.
5. Are you supplying the balloons? Again, I'm not sure what we'll be
flying, but we'll probably bring our own.

n9xtn@... wrote:

>I'd like to put together some attendance numbers and other logistical details for this
year's GPSL. Please e-mail me the following, even if your group is just coming to watch:
>
>1. Group name
>2. # of flights (payload trains) your group will launch
>3. # of people attending conference with your group (approx.)
>4. # of helium tanks you expect to pre-order (K or T - don't include spares)
>5. # and size of balloons you expect to pre-order
>
>This will help me determine how big of a conference room we'll need for Friday. I have not
yet been able to make contact with Dr Larson at UNO regarding use of their facilities.
There are a number of community colleges in the area that could be used, however.
>
>I'll update the GPSL page at www.superlaunch.org with the new info once I have it
compiled. I have not yet sent the "press release" to the various magazines, but hope to do
so this week.
>
>73 de Mark N9XTN
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>Yahoo! Groups Links
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No virus found in this outgoing message.
Checked by AVG Anti-Virus.

Version: 7.0.300 / Virus Database: 265.8.7 - Release Date: 2/10/2005

1156. GPSL attendance, "ES-OS" outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 00:27:06 UTC
From: K. Mark Caviezel
Topic: 1156 Message: 1156

"ES-OS"
preliminary! too early to confirm!

possible 1 flight
preliminary! too early to confirm!

2 or 3 persons.
preliminary! too early to confirm!

estimated 5 tanks of helium
preliminary! too early to confirm!

will bring own balloon, a large poly variety.
preliminary! too early to confirm!

employment concerns unfortunately schnibbled me out of
GPSL last year, right now I can't plan that far ahead
this year. I will confirm either way as situation
firms up or not.

- KMC ng0x "ES-OS" Denver

1157. Anyone happen to have an un-assembled Pocket Tracker laying around?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 00:35:53 UTC
From: Zack Clobes
Topic: 1157 Message: 1157

I think mine may be missing an SMT resistor (normally covered up by C16). I'd just like someone to confirm it before I break out the soldering iron.

Zack Clobes, W0ZC
Project: Traveler

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.300 / Virus Database: 265.8.7 - Release Date: 2/10/2005

1158. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 01:11:28 UTC
From: Don KA0JLF
Topic: 1151 Message: 1158

Mark, HABITAT SkyLab plans to be there to fly at
least. I forwarded you info request to the gourp. I'll
update you when I have a better idea.

At our meeting, last Saturday, most of the ones there
expressed interest in this year's GPSL.

Don

--- n9xtn@... wrote:

>
> I'd like to put together some attendance numbers and
> other logistical details for this year's GPSL.
> Please e-mail me the following, even if your group
> is just coming to watch:
>
> 1. Group name
> 2. # of flights (payload trains) your group will
> launch
> 3. # of people attending conference with your group
> (approx.)
> 4. # of helium tanks you expect to pre-order (K or T
> - don't include spares)
> 5. # and size of balloons you expect to pre-order
>
> This will help me determine how big of a conference
> room we'll need for Friday. I have not yet been
> able to make contact with Dr Larson at UNO regarding
> use of their facilities. There are a number of
> community colleges in the area that could be used,
> however.
>
> I'll update the GPSL page at www.superlaunch.org
> with the new info once I have it compiled. I have
> not yet sent the "press release" to the various
> magazines, but hope to do so this week.
>
> 73 de Mark N9XTN

=====

Do you Yahoo!?
Take Yahoo! Mail with you! Get it on your mobile phone.
http://mobile.yahoo.com/maildemo

1159. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 13:55:42 UTC
From: Ralph Wallio, WØRPK
Topic: 1151 Message: 1159

Mark,

Ralph Wallio, W0RPK
No flight
One
None
None

You have had repeated participation in NSTAR flights by others from the Des Moines area that may be interested in attending. Perhaps these folks should get a special direct invitation from you so they will know they would be welcome.

If a slot is available I could cover Thermal Engineering of Floating Payloads -or- Supplementing Battery Power for Floating Payloads with Light Weight Solar Panels -or- both.

Do you intend to arrange for, encourage and announce poster displays? At a minimum this would require space and tables in an adjacent room that could be locked if needed. It seemed to work well in the meeting room at KSU which was large enough to allow displays in the same room as discussions.

TNX es 73 de Ralph Wallio, W?RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1160. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 14:33:09 UTC
From: paul.verhage@boiseschools.org
Topic: 1151 Message: 1160

I'd like to get help filling and launching, so I'd to see as many people attend that have launched balloons, even if they're not planning to launch their own.

Paul

>
> Mark,
>
> Ralph Wallio, W0RPK
> No flight
> One
> None
> None
>
> You have had repeated participation in NSTAR flights by others from the Des
> Moines area that may be interested in attending. Perhaps these folks should
> get a special direct invitation from you so they will know they would be
> welcome.
>
> If a slot is available I could cover Thermal Engineering of Floating
> Payloads -or- Supplementing Battery Power for Floating Payloads with Light
> Weight Solar Panels -or- both.
>
> Do you intend to arrange for, encourage and announce poster displays? At a
> minimum this would require space and tables in an adjacent room that could
> be locked if needed. It seemed to work well in the meeting room at KSU
> which was large enough to allow displays in the same room as discussions.
>
> TNX es 73 de Ralph Wallio, WØRPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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1161. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 16:48:18 UTC
From: n9xtn@cox.net
Topic: 1151 Message: 1161

Several groups coming from a distance are going to require assistance with launching. I hope we can generate enough interest from the local radio clubs to come out and help with the launch. We'll need all the carbon-based ballast we can get.

73 de Mark N9XTN

----- Original Message -----
From: paul.verhage@...
Date: Tuesday, February 15, 2005 8:33 am
Subject: Re: [GPSL] Roll call - GPSL attendance

>
> I'd like to get help filling and launching, so I'd to see as many
> people attend that have
> launched balloons, even if they're not planning to launch their own.
>
> Paul
>

1162. Balloon order for GPSL (probably not)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-15 17:07:00 UTC
From: n9xtn@cox.net
Topic: 1162 Message: 1162

It appears most groups (so far) are planning to bring their own balloons for GPSL. I will probably need to send an order to Kaymont sometime in late May or June for my own purposes anyway, as I'll be out of 1200g balloons by then.

I'll bring whatever extras I have on hand to the GPSL launch - should someone need a spare for whatever reason they'll be on site and we can negotiate an extorted price for one. :)

73 de Mark N9XTN

1163. Re: [GPSL] Roll call - GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-16 13:30:13 UTC
From: Don KA0JLF
Topic: 1151 Message: 1163

Mark, just a quick update. I've heard from several HS members. So far we have about 10 to 12 people planning on GPSL 2005, probably more.

I think most are planning to be there for the whole thing.

We do plan to launch, configuration not decided on yet.

More soon,
Don KA0JLF
HABITAT SkyLab

=====

Do you Yahoo!?
Yahoo! Mail - 250MB free storage. Do more. Manage less.
http://info.mail.yahoo.com/mail_250

1164. GPSL announcements sent

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-16 15:10:31 UTC
From: n9xtn@cox.net
Topic: 1164 Message: 1164

I've sent announcements regarding GPSL to the club contacts I could get from the ARRL site for eastern Nebraska, southwest and central Iowa, and northwest MO. I also sent it to the Nebraska section manager (will do so for Iowa's too).

At the same time, I sent it to QST, CQ, CQ-VHF, and AMSAT.

We have the following groups as "definite" or nearly so for attendance:

NSTAR
KD4STH
EOSS
Project:Traveler
WB8ELK
HABITAT/SkyLab
HARPO(sp?) (don't have the e-mail on this system, but you're on the list)

These are tentative:

ES-OS
KD0FW (Kansas City ATV)

CAP-N-SPACE (KC area) expressed an interest earlier, but I haven't heard from them yet.

73 de Mark N9XTN

1165. Re: [GPSL] GPSL announcements sent

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-16 19:23:40 UTC
From: Don KA0JLF
Topic: 1164 Message: 1165

No KS clubs? ;-)

I'm sure Orlan Cook W0OYH, would put it in his KAR,
Kansas Amateur Radio. It is his ARRL Section
newsletter. I know there is interest in KS too.

Orlan, our next balloon launch is scheduled for
3/13/05 10 a.m. at Joe's place (normal launch site).

Just a suggestion, I know you can't send it to
everyone,
Don KA0JLF

--- n9xtn@... wrote:

>
> I've sent announcements regarding GPSL to the club
> contacts I could get from the ARRL site for eastern
> Nebraska, southwest and central Iowa, and northwest
> MO. I also sent it to the Nebraska section manager
> (will do so for Iowa's too).

=====

_____
Do you Yahoo!?
Take Yahoo! Mail with you! Get it on your mobile phone.
http://mobile.yahoo.com/maildemo

1166. Re: [GPSL] GPSL announcements sent

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-17 15:17:18 UTC
From: Mike Manes
Topic: 1164 Message: 1166

How about Pete Sias WB0DRL out of Salina KS? Not sure he's on any
of our reflectors.

73 de Mike W5VSI, EOSS

Don KA0JLF wrote:
>
> No KS clubs? ;-)
>
> I'm sure Orlan Cook W0OYH, would put it in his KAR,
> Kansas Amateur Radio. It is his ARRL Section
> newsletter. I know there is interest in KS too.
>
> Orlan, our next balloon launch is scheduled for
> 3/13/05 10 a.m. at Joe's place (normal launch site).
>
> Just a suggestion, I know you can't send it to
> everyone,
> Don KA0JLF
>
> --- n9xtn@... wrote:
>
> >
> > I've sent announcements regarding GPSL to the club
> > contacts I could get from the ARRL site for eastern
> > Nebraska, southwest and central Iowa, and northwest
> > MO. I also sent it to the Nebraska section manager
> > (will do so for Iowa's too).
>
> =====
>
>
> _____
> Do you Yahoo!?
> Take Yahoo! Mail with you! Get it on your mobile phone.
> http://mobile.yahoo.com/maildemo
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

1167. CANCELLED FLIGHT

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-20 01:40:47 UTC
From: Jon Riley
Topic: 1167 Message: 1167

Due to unforeseen events , the next flight of 'Project Traveler' to take place on Feb. 26 HAS BEEN CANCELLED.

Please stay tuned for more up-and-coming flights.

Thankyou,
Jon Riley AJ0NR
Project:Traveler

1168. CANCELLED FLIGHT

Yahoo group: GPSL (2002 — 2008)
Date: 2005-02-20 01:40:57 UTC
From: Jon Riley
Topic: 1167 Message: 1168

Due to unforeseen events , the next flight of 'Project Traveler' to take place on Feb. 26 HAS BEEN CANCELLED.

Please stay tuned for more up-and-coming flights.

Thankyou,
Jon Riley AJ0NR
Project:Traveler

1169. ARHAB Patch

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-16 15:04:58 UTC
From: PAUL VERHAGE
Topic: 1169 Message: 1169
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1170. hitchin' a ride

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-25 04:00:12 UTC
From: kc0mwm
Topic: 1170 Message: 1170

I was curious if anyone would have any extra lifting capacity for the July 2 launch. I'm planning on having my payload completed by then. It should weigh in about 4 - 5 lbs. I was hoping to have a launch under my belt by that time, but so many other things seem to get in the way of fun. I met with Mark, N9XTN, this past weekend and he suggested flying piggyback with another "proven" payload once or twice, before trying it solo. I'm from Grand Island, NE and I'm hoping to get some folks in my area excited about this hobby. So far it's been a solo project, but I've got a small group inteterested. We're unofficially CNNSP, Central Nebraska Near Space Program.
I'd gladly share the expense of the balloon and helium.

Roger Hammond
KC0MWM
Grand Island, NE
CNNSP

1171. Re: [GPSL] hitchin' a ride

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-25 21:30:40 UTC
From: PAUL VERHAGE
Topic: 1170 Message: 1171

I'm not going to have room for a third payload, but I can help fly an additional balloon? How many people have payloads we could fly together? So far, it sounds like two.

Paul

>>> rahammond@... 03/24/05 9:00 PM >>>

I was curious if anyone would have any extra lifting capacity for the July 2 launch. I'm planning on having my payload completed by then. It should weigh in about 4 - 5 lbs. I was hoping to have a launch under my belt by that time, but so many other things seem to get in the way of fun. I met with Mark, N9XTN, this past weekend and he suggested flying piggyback with another "proven" payload once or twice, before trying it solo. I'm from Grand Island, NE and I'm hoping to get some folks in my area excited about this hobby. So far it's been a solo project, but I've got a small group inteterested. We're unofficially CNNSP, Central Nebraska Near Space Program.
I'd gladly share the expense of the balloon and helium.

Roger Hammond
KC0MWM
Grand Island, NE
CNNSP

Yahoo! Groups Links

1172. GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-26 23:30:32 UTC
From: shermane2001
Topic: 1172 Message: 1172

Hi, we are a relatively new group based in NYC (Medgar Evers College, CUNY), MECSAT. (We actually launch in upstate NY and Northern Vermont.) We got our feet wet at the Colorado BalloonSAT workshop last summer and started our launch program right after. We did receive information about the GPSL from our state Space Grant and we're interested in participating. I tried to email the contact person but for some reason the email bounced. Can we still participate? We would be willing to partner with someone as well since we don't really know the area.

1173. Re: [GPSL] GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-28 00:48:52 UTC
From: Mike Manes
Topic: 1172 Message: 1173

Hi,

Well, it certainly is gratifying to learn about new balloon groups being spawned from Chris Koehler's BalloonSat Workshop! EOSS is proud to have played a small part in that effort, and will be glad to work further with
you at GPSL. Not sure at this point what our payload complement will be,
but I expect that we'll already be loaded close to the 12 lb FAR-101 exempt limit on that one. So it's unlkely that EOSS could carry any "hitchikers" weighing over 500 - 600 gm.

But there may be some others with spare weight budget, or your group could
bring along its own balloon and payloads. Rest assured that the GPSL teams
will not rest until all the payloads are recovered. Just be sure you have
a 2m ham band beacon, DF or APRS, aboard. Mark will be overseeing freq coordination.

This year's GPSL is being monthered by Mark Conner, N9XTN, of NSTAR out of
Nebraska. He's cc'ed on this email, so he should be getting your echo. If you will flying, place an order for He with Mark.

I'd encourage your team to prepare a brief (15 - 20 minute) presentation on your startup experiences. There will be a number of amateur balloon groups there who would be delighted to work with nearby Space Grant Colleges. I gave a pitch on that topic at last year's GPSL in KS.

73 de Mike Manes W5VSI
Prez EOSS, Colorado

shermane2001 wrote:
>
> Hi, we are a relatively new group based in NYC (Medgar Evers College,
> CUNY), MECSAT. (We actually launch in upstate NY and Northern
> Vermont.) We got our feet wet at the Colorado BalloonSAT workshop last
> summer and started our launch program right after. We did receive
> information about the GPSL from our state Space Grant and we're
> interested in participating. I tried to email the contact person but
> for some reason the email bounced. Can we still participate? We would
> be willing to partner with someone as well since we don't really know
> the area.
>

>
> Yahoo! Groups Links
>
>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1174. RE: [GPSL] GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-28 02:07:49 UTC
From: Mark Conner
Topic: 1172 Message: 1174

Hi,

Not sure why the e-mail bounced, but thanks for putting your message on the GPSL list.

You're more than welcome to participate in this year's GPSL. The groups flying this year are probably going to be full-up on their own payload strings, but we'll certainly provide mutual aid for tracking and recovery.

There's not a lot to know about the region for balloon chasing - one-mile road grids and few trees make it pretty easy in relative terms for recovery.

Be sure to let us know the details of what you plan to fly as the date gets closer. At some point in the next few weeks we'll start the frequency and time slot coordination process. We may have a lot of balloons in the air at once this year!

BTW, how did you hear about the GPSL?

73 de Mark N9XTN

-----Original Message-----
From: shermane2001 [mailto:shermane@...]
Sent: Saturday, March 26, 2005 17:31
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL participation

Hi, we are a relatively new group based in NYC (Medgar Evers College, CUNY), MECSAT. (We actually launch in upstate NY and Northern Vermont.) We got our feet wet at the Colorado BalloonSAT workshop last summer and started our launch program right after. We did receive information about the GPSL from our state Space Grant and we're interested in participating. I tried to email the contact person but for some reason the email bounced. Can we still participate? We would be willing to partner with someone as well since we don't really know the area.

1175. Re: [GPSL] GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-28 13:36:41 UTC
From: Ralph Wallio, W0RPK
Topic: 1172 Message: 1175

Dr. Shermane A Austin, KC2NAZ
Associate Professor - Physical, Environmental And Computer Sciences
Medgar Evers College, The City University of New York (CUNY)

Dr. Austin,

Thanks for introducing us to Medgar Evers College MECSAT high altitude balloon program. I look forward to MECSAT participation during GPSL-2005 this summer. Continue to check for new details at http://www.superlaunch.org/.

FYI, a gathering in the Washington, D.C. area of high altitude balloonists has recently been announced. See http://patkilroy.com/simsat/symposium/ for more information about this symposium at the NASA Goddard Space Flight Center in Greenbelt, MD.

I Googled 'balloon' from http://www.mec.cuny.edu/default.asp to find your MECSAT web page at http://nrts.mec.cuny.edu/mecsat/ but my attempts to connect have been refused. With your permission I would like to add MECSAT to my ballooning links page at http://users.crosspaths.net/~wallio/HABLinks.html if your page is accessible.

Given notice of your future MECSAT flights I will be happy to add them to our collective Launch Announcements at http://users.crosspaths.net/wallio/ARHAB%20Launch%20Announcements.htm.

You and your students may also be interested in our collective Amateur Radio High Altitude Ballooning Records maintained at http://users.crosspaths.net/wallio/RECORDS.htm. You are welcome to submit entries for past and future MECSAT flights.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1176. Re: [GPSL] GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-28 14:07:36 UTC
From: PAUL VERHAGE
Topic: 1172 Message: 1176

Are you looking at having a BalloonSat launched or a full-up tracker?

I can arrange to carry a BalloonSat.

Paul

>>> shermane@... 03/26/05 4:30 PM >>>

Hi, we are a relatively new group based in NYC (Medgar Evers College, CUNY), MECSAT. (We actually launch in upstate NY and Northern Vermont.) We got our feet wet at the Colorado BalloonSAT workshop last summer and started our launch program right after. We did receive information about the GPSL from our state Space Grant and we're interested in participating. I tried to email the contact person but for some reason the email bounced. Can we still participate? We would be willing to partner with someone as well since we don't really know the area.

Yahoo! Groups Links

1177. NYC GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-29 00:06:44 UTC
From: shermane2001
Topic: 1177 Message: 1177

Hi, all. I didn't change my group email so individual replies didn't come to the group.
We're still pretty new at this and our URL is:
http://nrts.mec.cuny.edu/mecsat
We want to fly our own balloon at the GPSL because we need the practice and the terrain is better than what we normally have. Plus the tracking support will be really helpful. I was really impressed with the EOSS folks in Colorado and I'm glad to hear that they're involved in this also. We are willing to partner with anyone that wants to piggyback on our balloon. We're flying student experiments and doing some testing so I don't know the payload weights just yet but will provide info as soon as we're able to determine this.

1178. Re: [GPSL] NYC GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-29 14:22:10 UTC
From: PAUL VERHAGE
Topic: 1177 Message: 1178

How much weight do you expect to have?

Paul

>>> shermane@... 03/28/05 5:06 PM >>>

Hi, all. I didn't change my group email so individual replies didn't
come to the group.
We're still pretty new at this and our URL is:
http://nrts.mec.cuny.edu/mecsat
We want to fly our own balloon at the GPSL because we need the
practice and the terrain is better than what we normally have. Plus
the tracking support will be really helpful. I was really impressed
with the EOSS folks in Colorado and I'm glad to hear that they're
involved in this also. We are willing to partner with anyone that
wants to piggyback on our balloon. We're flying student experiments
and doing some testing so I don't know the payload weights just yet
but will provide info as soon as we're able to determine this.

Yahoo! Groups Links

1179. Re: Re: [GPSL] NYC GPSL participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-03-30 21:21:18 UTC
From: shermane@verizon.net
Topic: 1177 Message: 1179

Our total payload won't exceed 8 pounds so we will have some weight to spare for a piggybacker.

>From: PAUL VERHAGE <paul.verhage@...>
>Date: Tue Mar 29 08:22:10 CST 2005
>To: GPSL@yahoogroups.com
>Subject: Re: [GPSL] NYC GPSL participation

>
>How much weight do you expect to have?
>
>Paul
>
>>>> shermane@... 03/28/05 5:06 PM >>>
>
>
>Hi, all. I didn't change my group email so individual replies didn't
>come to the group.
>We're still pretty new at this and our URL is:
>http://nrts.mec.cuny.edu/mecsat
>We want to fly our own balloon at the GPSL because we need the
>practice and the terrain is better than what we normally have. Plus
>the tracking support will be really helpful. I was really impressed
>with the EOSS folks in Colorado and I'm glad to hear that they're
>involved in this also. We are willing to partner with anyone that
>wants to piggyback on our balloon. We're flying student experiments
>and doing some testing so I don't know the payload weights just yet
>but will provide info as soon as we're able to determine this.
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>Yahoo! Groups Links
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>Yahoo! Groups Links
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1180. UAH Balloonsat Flight found near Rome GA

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-03 19:21:37 UTC
From: wb8elk@aol.com
Topic: 1180 Message: 1180

We only flew the first balloon today (StratosFear) since the 3Mall team wasn't ready to fly.

Beautiful weather today with barely any surface winds. It was so clear that the balloon burst was visible from the ground and the parachute could be seen as it descended through 50,000 feet.

We're not sure if the student cutdown system worked since they fired it after balloon burst so it will have to be analyzed to see if it fired when they get it out of the tree.

However, N4TXI's parachuting Buzz Lightyear was successfully dropped via a remotely controlled servo mechanism at 80,000 feet via a packet uplink to Gary's newly designed packet board based on the Atmel AVR Mega 8 (called the WhereAVR)....details on it's construction and open-source code can be found at: http://www.garydion.com. The nice thing about this APRS controller is that it is a single chip solution that includes the capability of receiving packet commands as well as APRS and telemetry downlinks.

The balloon landed 10 miles west of Rome, GA:

34d 16.727m
85d 22.455m

There is an APRS object called UAHfound on Findu as well.

http://map.findu.com/uahfound

It landed 40 feet up in a tree near a small clearing...the recovery team is trying to retrieve it currently.

73s de Bill WB8ELK

There will be 3 flights next Saturday....callsigns and payload configurations will be announced later in the week.

1181. GPSL flight list

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-03 22:34:37 UTC
From: Mark Conner
Topic: 1181 Message: 1181

Here is a list of groups who I have down as planning to fly at the GPSL:

*
NSTAR

*
EOSS

*
Project: Traveler

*
HABITAT/SkyLab

*
WB8ELK

*
KD4STH

*
Project HARPO

*
Central Nebraska Near Space Program (piggyback with another flight)

*
MECSAT (tentative?)

*
ES-OS (tentative)

*
CAPNSPACE (tentative)

If there are changes to this list (either in name or how definite your plans are), please let me know. Also, please start thinking about the RF-emitting payloads you plan to fly. We might have to look at a third APRS frequency (144.365? halfway between .34 and .39) to handle all the traffic.

73 de Mark N9XTN

1182. Taylor University BalloonSAT Program

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-03 23:38:41 UTC
From: JFDAILEY
Topic: 1182 Message: 1182

We are planning to come to the event how do we sign up to fly.

1183. RE: [GPSL] GPSL flight list

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 01:08:56 UTC
From: Rochte, Robert
Topic: 1181 Message: 1183

Please put the Grosse Pointe Academy on the tentative list. We would only have a few people come out (me and one or two others) and would plan to fly a moderately-sized solar Montgolfier with a simple APRS tracker (basically a demonstration flight).

Thanks.

Regards,
Robert
KC8UCH

-----Original Message-----
From: Mark Conner [mailto:n9xtn@...]
Sent: Sunday, April 03, 2005 6:35 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL flight list

Here is a list of groups who I have down as planning to fly at the GPSL:

*
NSTAR

*
EOSS

*
Project: Traveler

*
HABITAT/SkyLab

*
WB8ELK

*
KD4STH

*
Project HARPO

*
Central Nebraska Near Space Program (piggyback with another flight)

*
MECSAT (tentative?)

*
ES-OS (tentative)

*
CAPNSPACE (tentative)

If there are changes to this list (either in name or how definite your plans are), please let me know. Also, please start thinking about the RF-emitting payloads you plan to fly. We might have to look at a third APRS frequency (144.365? halfway between .34 and .39) to handle all the traffic.

73 de Mark N9XTN

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/ <http://groups.yahoo.com/group/GPSL/>

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

1184. Re: [Balloon_Sked] UAH Balloonsat Flight found near Rome GA

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 13:10:00 UTC
From: Harry M
Topic: 1184 Message: 1184

Hi Bill,

Congrat's on the flight!
GLuck next weekend.

If I can get my mobile tracker going we will also fly next weekend.
I am having a problem with APRS+SA (WNT) on my new laptop running
Win2000P. For some odd reason it will not display certain stations.
The packets comom\ng in are fine in the terminal screen, but they
won't appear on the History or Position screen. If anyone has any
ideas what is causing this I would appreciate a workaround!

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1185. APRS+SA & Win2000P

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 13:11:35 UTC
From: Harry M
Topic: 1185 Message: 1185

Hi all!

I am having a problem with APRS+SA (WNT) on my new laptop running
Win2000P. For some odd reason it will not display certain stations.
The packets comoming in are fine in the terminal screen, but they
won't appear on the History or Position screen. If anyone has any
ideas what is causing this I would appreciate a workaround!

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1186. Taylor Univ. & Grosse Point Academy

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 13:20:25 UTC
From: n9xtn@cox.net
Topic: 1186 Message: 1186

I have your two groups on the list. In case you haven't seen the earlier messages, there will be a group helium buy with payment due in mid-June. Final cost is TBD, but full price in Omaha has been running $74 for a T-tank - we should be able to get a discount.

73 de Mark N9XTN

1187. Re: GPSL flight list

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 15:15:09 UTC
From: kuhabs
Topic: 1181 Message: 1187

Hi Mark,
please add the University of Kansas HABS (High Altitude Balloon Satellite) in the tentative list.
We are still checking the availability of the students in that weekend, but are definetly interested in coming.

Regards,
Marco Villa
HABS Project Manager

--- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
> Here is a list of groups who I have down as planning to fly at the GPSL:
>
> *
> NSTAR
>
> *
> EOSS
>
> *
> Project: Traveler
>
> *
> HABITAT/SkyLab
>
> *
> WB8ELK
>
> *
> KD4STH
>
> *
> Project HARPO
>
> *
> Central Nebraska Near Space Program (piggyback with another flight)
>
> *
> MECSAT (tentative?)
>
> *
> ES-OS (tentative)
>
> *

> CAPNSPACE (tentative)
>
> If there are changes to this list (either in name or how definite
your plans
> are), please let me know. Also, please start thinking about the
RF-emitting
> payloads you plan to fly. We might have to look at a third APRS
frequency
> (144.365? halfway between .34 and .39) to handle all the traffic.
>
>
> 73 de Mark N9XTN

1188. Re: [GPSL] Re: GPSL flight list

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 18:48:03 UTC
From: Harry M
Topic: 1181 Message: 1188

Add ORB to the list for GPSL.
I do plan to be there, but I have no idea as to the extent of participation
or if anyone will come from this area.

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1189. Re: [GPSL] GPSL flight list

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-04 23:21:22 UTC
From: PAUL VERHAGE
Topic: 1181 Message: 1189

This is a lot of launches! Wow!

Paul

>>> n9xtn@... 04/03/05 4:34 PM >>>
Here is a list of groups who I have down as planning to fly at the
GPSL:

*
NSTAR

*
EOSS

*
Project: Traveler

*
HABITAT/SkyLab

*
WB8ELK

*
KD4STH

*
Project HARPO

*
Central Nebraska Near Space Program (piggyback with another flight)

*
MECSAT (tentative?)

*
ES-OS (tentative)

*
CAPNSPACE (tentative)

If there are changes to this list (either in name or how definite your
plans
are), please let me know. Also, please start thinking about the
RF-emitting
payloads you plan to fly. We might have to look at a third APRS
frequency
(144.365? halfway between .34 and .39) to handle all the traffic.

73 de Mark N9XTN

1190. Updated roster/conference day details

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-05 21:35:11 UTC
From: n9xtn@cox.net
Topic: 1190 Message: 1190

An updated list:

-
NSTAR

-
EOSS

-
Project: Traveler

-
HABITAT/SkyLab

-
WB8ELK

-
KD4STH

-
Project HARPO

-
Central Nebraska Near Space Program (piggyback with another flight)

-
MECSAT (tentative?)

-
ES-OS (tentative)

-
CAPNSPACE (tentative)

-
ORB (tentative)

-
Univ. of Kansas High Altitude Balloon Satellite (KU HABS) (tentative)

-
Grosse Point Academy (tentative - solar Montgolfier)

-
Taylor Univ. (tentative)

So that's 7 fairly definite flight trains, 1 as a piggyback flyer, and 7 more who are at the "maybe" stage.

I just spoke with Mike Larson at UNO and we're at the 98% definite level that we'll have a classroom at UNO (see www.superlaunch.org (http://www.superlaunch.org) for where the UNO campus is in Omaha). We should also have wired Ethernet and/or WiFi access too. We may be able to get parking passes, but if not there's a nearby garage that's pretty empty in the summer and costs only 75 cents to get in.

I would like to suggest that we eat at the UNO cafeteria for lunch. Mike is checking on that too, but it looks promising. This will save a lot of driving around and competing with nearby office complexes for space at lunchtime (there are two hospitals and at least four major office buildings within a half-mile range of the restaurants on 72nd Street).

So far I have only two "formal" presentations on the list of possibilities, both by Ralph W0RPK (my apologies if someone else has volunteered to do a talk and I've forgotten it). I also plan to include at the end of the afternoon a weather briefing/launch site decision meeting. This should hopefully get everyone on the same page as to what to expect for winds, weather, and flight tracks. We should also have time for individual groups to highlight their accomplishments. If you have a presentation you'd like to give (either "formal" or "what we did last summer"), let me know the topic and how much time. Also, if some of the newer groups would like to suggest a topic, throw it out on the list and perhaps someone will volunteer to take it on.

Another possibility is to have more "unstructured time" in the schedule. I've been to a number of meteorology conferences where the best information is to be had by BSing with the other attendees in the hallways. We can just build that into our schedule, perhaps right after lunch.

73 de Mark N9XTN
GPSL 2005 "stuckee"
www.superlaunch.org (http://www.superlaunch.org)

1191. Re: [GPSL] Updated roster/conference day details

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-05 22:18:29 UTC
From: shermane@verizon.net
Topic: 1190 Message: 1191

Hi, this is from MECSAT in NYC and we're definitely planning to attend. I think it's going to be a lot of fun. We are also willing to give a "what we did last summer" presentation. (I went out of town for a quick vacation and may have missed a few emails.)

>From: n9xtn@...
>Date: Tue Apr 05 16:35:11 CDT 2005
>To: gpsl@yahoogroups.com
>Subject: [GPSL] Updated roster/conference day details

>
>An updated list:
>NSTAREOSSProject: TravelerHABITAT/SkyLabWB8ELKKD4STHProject HARPOCentral Nebraska Near Space Program (piggyback with another flight)MECSAT (tentative?)ES-OS (tentative)CAPNSPACE (tentative)ORB (tentative)Univ. of Kansas High Altitude Balloon Satellite (KU HABS) (tentative)Grosse Point Academy (tentative - solar Montgolfier)Taylor Univ. (tentative)
>So that's 7 fairly definite flight trains, 1 as a piggyback flyer, and 7 more who are at the "maybe" stage.
>
>I just spoke with Mike Larson at UNO and we're at the 98% definite level that we'll have a classroom at UNO (see www.superlaunch.org for where the UNO campus is in Omaha). We should also have wired Ethernet and/or WiFi access too. We may be able to get parking passes, but if not there's a nearby garage that's pretty empty in the summer and costs only 75 cents to get in.
>
>I would like to suggest that we eat at the UNO cafeteria for lunch. Mike is checking on that too, but it looks promising. This will save a lot of driving around and competing with nearby office complexes for space at lunchtime (there are two hospitals and at least four major office buildings within a half-mile range of the restaurants on 72nd Street).
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>So far I have only two "formal" presentations on the list of possibilities, both by Ralph W0RPK (my apologies if someone else has volunteered to do a talk and I've forgotten it). I also plan to include at the end of the afternoon a weather briefing/launch site decision meeting. This should hopefully get everyone on the same page as to what to expect for winds, weather, and flight tracks. We should also have time for individual groups to highlight their accomplishments. If you have a presentation you'd like to give (either "formal" or "what we did last summer"), let me know the topic and how much time. Also, if some of the newer groups would like to suggest a topic, throw it out on the list and perhaps someone will volunteer to take it on.
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>
>73 de Mark N9XTN

>GPSL 2005 "stuckee"
>www.superlaunch.org
>
>
>
>Yahoo! Groups Links
>To visit your group on the web, go to:
>http://groups.yahoo.com/group/GPSL/
> To unsubscribe from this group, send an email to:
>GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

1192. Re: [GPSL] Updated roster/conference day details

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-06 14:04:28 UTC
From: PAUL VERHAGE
Topic: 1190 Message: 1192

I'm now a Solar System Ambassador for Idaho. Since the Deep Impact mission is slated to end on the 4th, I'd like to give a presentation on that.

Paul

1193. APRSSIG posting

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-10 19:28:42 UTC
From: Mark Conner
Topic: 1193 Message: 1193

Thought I'd share this posting to the APRSSIG with the group. I've also sent Bill WB8ELK a copy - he may have some more converts soon.

73 de Mark N9XTN

==========

Message: 10
Date: Sun, 10 Apr 2005 02:12:28 GMT
From: "kd4ydc@..." <kd4ydc@...>
Subject: [aprssig] Stop it! (long)
To: aprssig@...
Message-ID: <20050409.191300.20502.276684@...>
Content-Type: text/plain

I had an experience I want to share with the group. Several of you know me...many of you don't. I have a passion for teaching (I am a band director by trade for 20 years) and public service (have been working with the local NWS for about 10 years). I understand about educating "the masses"...but sometimes we go over board. Sometimes it is what we read for weeks at a time. I have not just stumbled onto APRS...but have been involved in one form or another. No, I do not consider myself as an expert...but I do feel that I have brought a few people into this portion of the hobby because of my involvement. Yes, some have come and gone...but it is nice to see a "newbie" (sp?) get as excited about it as one did today.

This is going out in a 2 part email because the people who put this on...do not deserve to be listed in this email.

Today a friend of mine, who just happened to have worked with NASA on the Saturn V project, came on the local repeater as I was watching and waiting for the balloon launch from Huntsville,Al. All of a sudden a balloon popped on my map...50,000+ feet. I was just causally talking with him...and then mentioned this. His voice raised to a higher pitch and said, "What are you looking at?". Knowing that he didn't have APRS (he had a station on...but had long ago turned it off), I pointed him to findu.com (thanks Steve!). You would have thought it was Christmas for this older gentleman. It was like watching a horse race! I kept going back and forth on my APRS station and findu. Literally the balloons were racing each other....we could not get enough. We held our breath as they went over a large lake in N.Al. When the payload stopped sending telemetry (sp? too tired to check ;-), we started watching the chase vehicles. I noticed a packet from a guy down in Fl that saw it direct...cool! I brought up my remote base on our repeater to see if I could hear the voice simplex repeater...no such luck. Everyone of them however we could see direct...which I thought was neat....so did Gary.

Fast forward to tonight....
Heard some guys talking about studying code and I threw in my 2 cents worth. Before I could barely unkey...Gary jumped in wanting to know, "Did they find the balloons?" "Did you see that they landed almost side by side?" ....he just would not stop. ;-) I thought..."Let's go look on the SIG archives and see if we can find something on it...", since I get the SIG in digest mode. I talked him thru each mouse click to get there. Found it! Clicked on "Balloon Unproto Paths"...or something like that.

Did we find it? No. The tone of his voice...I could tell he was disappointed. All he saw was people "fussing" over unproto paths.

I wonder how many others feel this way? Folks, I understand that somethings may need "fixin'"....but let's promote APRS for the really cool things that it can do....and stop with the bickering and fighting over what works best. There are several people who have "slapped" my hand over wrong practices with this thing called APRS over the years...and I thank them. However....after a while pounding and pounding the dead horse....come on...it is already glue!

Part 1 over...flame away....I won't be responding....

Message: 11
Date: Sun, 10 Apr 2005 02:23:55 GMT
From: "kd4ydc@..." <kd4ydc@...>
Subject: [aprssig] Thanks! (Part 2)
To: aprssig@...
Message-ID: <20050409.192418.20502.276777@...>
Content-Type: text/plain

I would like to thank the guys up at UAH in Huntsville,Al. I know myself and Gary (KB4RG)...& probably several others that were listening on a local S.ATL repeater...was glued to our computers for hours today. I know alot of hard work and MONEY went into your project. I hope that you would share with the group your experiences about today's flight. I know that several others have before...honestly it just really didn't catch my attention until today. Wow! How cool is this!! 92,000+ feet at one time. Just plain slick ;-) I know others have gone higher..and such. Ralph (N4NEQ)...neat page :-) Looked on the web and found your site with the NASA stuff...cool with the peeps too ;-) I also shared that with Gary.

What a neat thing to do on Field Day. Just wish we didn't have a major airport...and the FAA at our door step 8-)

Great job guys....and it was neat to hear an old NASA engineer get excited about APRS again....

Good Night and 73,
Robert

1194. Re: [GPSL] APRSSIG posting

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-10 23:07:42 UTC
From: Harry M
Topic: 1193 Message: 1194

Thanks for the wonderful story Mark. I read few of the
Sig postings a while back and it seems there are always self
proclaimed APRS police trying to force others to do it
THEIR way. Several HAM's in the Tulsa area have received
emails from one of these APRS cops, telling them how to
run their APRS stations when there was nothing wrong with
what they were doing, I've had several calls asking who does
guy think he is. He and others like him have turned APRS
newbies away from APRS. Education is the key. We as
APRS Elmers can help keep APRS growing.

That's my story and I'm stick'in with it! :)

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1195. Comparing balloon prices - request for input

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-12 15:54:27 UTC
From: Ralph Wallio, W0RPK
Topic: 1195 Message: 1195

Perhaps we should compare recent balloon purchasing experience to understand any price differences between Scientific Sales (https://secure.scientificsales.com/Details.cfm?ProdID=129&category=8) and Kaymont (http://www.kaymont.com/pages/home.html) for the same balloons manufactured by TOTEX in Japan.

Scientific Sales has on-line ordering with the following prices (which include shipping and handling):

300 grams $30.00
350 grams $35.00
500 grams $45.00
600 grams $60.00
700 grams $70.00
800 grams $75.00
1000 grams $90.00
1200 grams $110.00
1500 grams $125.00
2000 grams $249.00
3000 grams $395.00

What is recent experience of Kaymont prices for the same balloons? What was charged for shipping and handling?

While we are at it, what is recent experience of Kaymont and Scientific Sales order response, e.g., have orders been shipped immediately, did they have stock at the time of order, et al?

I will gather responses into another e-mail message.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1196. Re: [GPSL] Comparing balloon prices - request for input

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-12 16:18:15 UTC
From: PAUL VERHAGE
Topic: 1195 Message: 1196

In my last order from Kaymont, I paid about $55 for a 1200 gram balloon.
Shipping was $5 as I recall.

Usually the service is good. But it looks like if you place an order at
the same time as the government, you'll get lost.

Paul

>>> wallio@... 04/12/05 9:54 AM >>>

Perhaps we should compare recent balloon purchasing experience to
understand
any price differences between Scientific Sales
(https://secure.scientificsales.com/Details.cfm?ProdID=129&category=8)
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3000 grams $395.00

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was
charged for shipping and handling?

While we are at it, what is recent experience of Kaymont and Scientific
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have stock at the time of order, et al?

I will gather responses into another e-mail message.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/

Hubbert's Peak - The Mother of all Perfect Storms

Yahoo! Groups Links

1197. Re: [GPSL] Comparing balloon prices - request for input

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-12 16:57:37 UTC
From: wb8elk@aol.com
Topic: 1195 Message: 1197

According to the fellow at Scientific Sales....the balloons are not the same as those sold by Kaymont.

Kaymont sells Totex balloons made in Japan.

Scientific Sales sells balloons by "The Weather Balloon Manufacturing Company" also made in Japan.

These two weather balloon companies are seperate entities although they look like they are made in the same manner.

I've found that the Scientific Sales ballooons are very consistent....we typically have 18 to 19 pounds of lift in our balloons for the student experiments and the last few have burst within a thousand feet of 95,000 feet (the ones that weren't cut down).

I haven't tried comparing the Kaymont balloons yet.

Kaymont has been very responsive in the past for me.

Scientific Sales has been very responsive as well.

There are times that I've had trouble getting 1500 gram balloons with either company though.

In January I ordered and received two 2000 gram balloons from Scientific Sales....but the 3000 gram ones were a long lead-time special order.

Kaymont may have a quicker way of getting the 3000 gram sizes but I haven't checked yet about this...we've ordered 3000 gram balloons from them in the past however for the NASA Leonids experiments and those seemed to be very consistent as well...not sure about the availabililty of 2000 gram balloons.

Perhaps it would be a good experiment to fly two payloads of the same weight with a Scientific Sales and Kaymont balloon on each to compare their performance...although I expect that they would be pretty close. It's been my experience that Kaysams go a bit higher for the same lift but they are harder to launch successfully in a strong wind....however they are out of business.

- Bill WB8ELK

1198. Re: [GPSL] Comparing balloon prices - request for input

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-12 19:02:40 UTC
From: n9xtn@cox.net
Topic: 1195 Message: 1198

> 1200 grams $110.00
> 1500 grams $125.00
>
> What is recent experience of Kaymont prices for the same balloons?
> What was
> charged for shipping and handling?

Last summer, I paid about $50-55 for 1200g balloons and $75 for 1500g from Kaymont. I believe on my order of four that shipping was $10 or $15.

> While we are at it, what is recent experience of Kaymont and
> Scientific
> Sales order response, e.g., have orders been shipped immediately,
> did they
> have stock at the time of order, et al?

1200s and 1500s were in stock and order to delivery was just over a week (UPS Ground from East Coast to Nebraska).

If you get the guy who normally handles orders, you're OK. I've had two instances where I've left the info with whoever picked up the phone and those were lost. But that was over three years ago.

My experience with Kaysams (the kind with the ring above the neck) has been more varied. We flew some 3-4 years ago and had a good experience, but on my last order from them I think I got a lower-quality batch and got less altitude than expected.

73 de Mark N9XTN

1199. Fw: World Year of Physics 2005 April Newsletter

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-15 18:31:49 UTC
From: Ralph Wallio, W0RPK
Topic: 1199 Message: 1199

----- Original Message -----
From: "World Year of Physics 2005" <sathyash@...>
To: <wallio@...>
Sent: Friday, April 15, 2005 12:37 PM
Subject: World Year of Physics 2005 April Newsletter

****

World Year of Physics 2005 Newsletter - April 2005

"Help Make 2005 Another Miraculous Year"

****
In this issue:

1. Physics Enlightens the World

2. Einstein@Home makes it onto 100,000 PCs

3. Searching for the next Einstein

4. WYP Promotional Kits

5. WYP Merchandise

6. 2005 Event Finder now online!

****

Happy World Year of Physics 2005! Many exciting things are happening during 2005. Check our website for the latest details regarding our projects. http://www.physics2005.org

You're receiving this message because you signed up to be on the list at our website or at an APS, AAPT or other scientific meeting. This newsletter, containing information about the World Year of Physics 2005, is distributed approximately every six weeks.

1. Physics Enlightens the World---Last Chance to Participate!!

In the World Year of Physics 2005 as many people as possible should get the feeling to be part of a great physics community spanning the whole globe. "Physics enlightens the world" is an endeavour to achieve just that: A world-wide relay of light to commemorate the 50th anniversary of Albert Einstein's death on next Monday, April 18, 2005. For more information, click on: http://www.physics2005.org/events/projects.html

2. Einstein@Home makes it onto 100,000 PCs

Einstein@Home--our distributed computing project to search for gravitational waves--was officially launched on February 18. We have 72,337 registered users so far who have volunteered time on a total of more than 100,000 computers. Participants currently represent over 140 countries. The raw computational capacity of the participants' CPUs is over 85 TeraFlops (floating point operations per second), which exceeds the capacity of IBM's Blue Gene L (70.72 Tflops), the record holding, stand-alone supercomputer. Join in the search for gravitational waves today! Sign up at: http://www.einsteinathome.org

3. Searching for the next generation of physics talent

The World Year of Physics 2005 Physics Talent Search project is now beginning in earnest. Both students and evaluators are urged to participate (evaluators must be members of APS or AAPT). Students' results are due by July 31, 2005. All awards and recognitions will be completed by the US Organizing Committee no later than 15 September 2005. Sign up today at: http://www.usphysicstalentsearch.org

4. WYP Promotional Kits

Now that the World Year of Physics 2005 is upon us, how about getting an official World Year of Physics 2005 Promotional Kit! Kits include lapel pins, magazines, balloons, pens, glasses and posters, or you can purchase individual items as you require. These items work great as door prizes, science awards for your graduates, or fun give-away items for volunteers at demo shows or at formal events. Order your kit online at: http://www.spsnational.org/societynews/2005WYP_shirts.htm

5. WYP Merchandise

Get your WYP2005 Merchandise now! Watches, T-Shirts, Umbrellas, Baseball Caps and more... Get your cool stuff today at: http://www.aapt.org/Store/products.cfm?category=world%20year%20of%20physics

6. Register your event on our 2005 Event Finder!

The WYP2005 Online Event Finder is available. We want to hear about YOUR World Year of Physics event in the United States. Add your open house, public lecture, lab tour, or physics demonstrations to our online event finder so others in your area (and around the country) can find out about your events.

Click here to submit your events: http://www.physics2005.org/events/submit.html

****

For more information on the World Year of Physics 2005, email vinaya@... or visit our website at http://www.physics2005.org.

If you would like to be removed from this list, email physics2005@... with the word REMOVE in the subject line.

1200. Comparing balloon prices - collected comments

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-18 11:32:09 UTC
From: Ralph Wallio, W0RPK
Topic: 1200 Message: 1200

Thanks for all comments and information. Complete responses are collected far below. I have extracted several comments about pricing, service and other issues immediately below.

It seems clear that Kaymont pricing is significantly less than Scientific Sales:

BALLOON SS(includes s/h) Kaymont (s/h extra)
300 grams $30.00 $15
350 grams $35.00
500 grams $45.00
600 grams $60.00 $25
700 grams $70.00
800 grams $75.00
1000 grams $90.00
1200 grams $110.00 $55+$5s/h $50-55
1500 grams $125.00 $87 or $97 $75 $75 $70
2000 grams $249.00
3000 grams $395.00 $230 $225

Pricing comments:

Current Kaymont quote for KCI-3000 $230 plus s/h (Mike Cook, KC0GMJ - ISU HABET)

Last order from Kaymont [no date] KCI-1200 $55 plus $5 s/h (Paul Verhage, KD4STH)

Kaymont quoted $87 (it might have been $97) for a KCI-1500 [no date] (Troy Campbell, KC0MIC - CAP-N-SPACE)

Last summer [2004], I paid about $50-55 for 1200g balloons and $75 for 1500g from Kaymont. I believe on my order of four that shipping was $10 or $15. (Mark Conner, N9XTN - NSTAR)

Kaymont $75 for their smallest sounding balloon, a 1500g one I think [no date] (Chris Valade, KB1LTH)

Kaymont KCI 300 15.00 - KCI 600 25.00 - KCI 1500 70.00 - KCI 3000 225.00 (government contract prices) (Gerald Lehmacher, KI4CQJ - Clemson Univ TigerCUB)

It seems clear that Kaymont service is reasonable:

"I have almost always been pleased with their [Kaymont] response." (Mike Cook, KC0GMJ - ISU HABET)

"Last year [2004] I got two 1200's and two 300's. Response was fast, and so was shipping." (Andy MacAllister, W5ACM - BLT)

"Usually the service is good. But it looks like if you place an order at the same time as the government, you'll get lost." (Paul Verhage, KD4STH)

"Kaymont has been very responsive in the past for me." (Bill Brown, WB8ELK)

"[Kaymont]1200s and 1500s were in stock and order to delivery was just over a week ..." (Mark Conner, N9XTN - NSTAR)

Related comments:

"Scientific Sales sells balloons by "The Weather Balloon Manufacturing Company" [not TOTEX as from Kaymont] also made in Japan." (Bill Brown, WB8ELK)

"I've found that the Scientific Sales ballooons are very consistent...." (Bill Brown, WB8ELK)

"As far as I could determine, balloons sold by Kaymont did not have serial numbers and it was therefore not possible for Kaymont to determine the date of manufacture nor the composition of the balloon." (Jim Woodyard, KC8MSY - Wayne State Univ SUNTRACKER)

"I would welcome a technical contact at TOTEX to optimize balloon designs for our project." (Jim Woodyard, KC8MSY - Wayne State Univ SUNTRACKER)

----- Original Message -----
From: "Michael J. Cook" <bilbomjc@...>
To: "Ralph Wallio, W0RPK" <wallio@...>
Sent: Tuesday, April 12, 2005 11:03 AM
Subject: Re: Comparing balloon prices - request for input

Ralph,

We currently have an order pending from Kaymont. It is for 3000 gram balloons - the price quote is $230 less shipping. I have almost always been pleased with their response. Except for large balloons, they usually have them in stock (seems to have been a problem in the last year). We normally try to have around 10 balloons on hand at any given time because of the time lag that we have experienced.

Mike

----- Original Message -----
From: <Andrew.MacAllister@...>
To: <wallio@...>
Sent: Tuesday, April 12, 2005 11:16 AM
Subject: RE: Comparing balloon prices - request for input

Ralph,

We do not need more balloons this year. In 2003 I could barely get a few 300 gr balloons from Kaymont. They could not ship 1200's. I think I may have gotten one 1000. Last year I got two 1200's and two 300's. Response was fast, and so was shipping. This year my primary 1200 is a year old and my backup is 3+ years old. I only seem to have one 300 on hand. It was NATO surplus via eBay, but it was the same Kaymont (Totex) balloon in a NATO outer foil wrapper! It's a few years old, but it looks good and will be used for a non-critical flight. I have only dealt with Kaymont. The other folks sound too expensive for our budget. We have $145 in the "jar", BUT we own our HE tanks this time - special deal.

Check out the info at:

http://www.qsl.net/w5acm for BLT-21 stuff.

73 de Andy W5ACM

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, April 12, 2005 11:18 AM
Subject: Re: [GPSL] Comparing balloon prices - request for input

In my last order from Kaymont, I paid about $55 for a 1200 gram balloon. Shipping was $5 as I recall.

Usually the service is good. But it looks like if you place an order at the same time as the government, you'll get lost.

Paul

----- Original Message -----
From: <wb8elk@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, April 12, 2005 11:57 AM
Subject: Re: [GPSL] Comparing balloon prices - request for input

According to the fellow at Scientific Sales....the balloons are not the same as those sold by Kaymont.

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Perhaps it would be a good experiment to fly two payloads of the same weight with a Scientific Sales and Kaymont balloon on each to compare their performance...although I expect that they would be pretty close. It's been my
experience that Kaysams go a bit higher for the same lift but they are harder to launch
successfully in a strong wind....however they are out of business.

- Bill WB8ELK

----- Original Message -----
From: "James R. Woodyard" <woodyard@...>
To: "Ralph Wallio, W0RPK" <wallio@...>
Sent: Tuesday, April 12, 2005 12:07 PM
Subject: Re: Comparing balloon prices - request for input

Ralph,
Thanks for carrying out this survey. It is an excellent service.
I used Kaymont balloons when we started the Suntracker project in 1999 . I requested on several occasions the date of manufacture of the balloons that I purchased. I did not receive a response. As far as I could determine, balloons sold by Kaymont did not have serial numbers and it was therefore not possible for Kaymont to determine the date of manufacture nor the composition of the balloon. The composition is important in order to optimize the balloon performance for a given flight, e.g., day or night flights, launching in high surface winds etc. While the user does not need the composition, the manufacturer needs a batch number etc. in order to optimize the composition.

Failing the availability of technical information from Kaymont,
Kaysam balloons were purchased. Kaysam was forthcoming and
cooperative. I purchased a number of balloons that were custom designed
for our experiments. Now that they are out of business, I would welcome
a technical contact at TOTEX to optimize balloon designs for our project.
Thanks,
Jim Woodyard

----- Original Message -----
From: "Troy M Campbell" <troymc@...>
To: "Ralph Wallio, W0RPK" <wallio@...>
Sent: Tuesday, April 12, 2005 12:21 PM
Subject: Re: Comparing balloon prices - request for input

My last purchacse was from Kaysam, 1500gr for $63.00
When I found out that Kaysam was going out of business
I called Kaymont. The called back and quoted $87
(it might have been $97).
The response time was pretty good though I haven't
purchased any yet.

TMC

Troy M. Campbell
Epic Alliance, Inc.
913.227.0660

----- Original Message -----
From: <n9xtn@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, April 12, 2005 2:02 PM
Subject: Re: [GPSL] Comparing balloon prices - request for input

> 1200 grams $110.00
> 1500 grams $125.00
>
> What is recent experience of Kaymont prices for the same balloons?
> What was
> charged for shipping and handling?

Last summer, I paid about $50-55 for 1200g balloons and $75 for 1500g from
Kaymont. I believe on my order of four that shipping was $10 or $15.

> While we are at it, what is recent experience of Kaymont and
> Scientific
> Sales order response, e.g., have orders been shipped immediately,
> did they
> have stock at the time of order, et al?

1200s and 1500s were in stock and order to delivery was just over a week (UPS Ground from East Coast to Nebraska).

If you get the guy who normally handles orders, you're OK. I've had two instances where I've left the info with whoever picked up the phone and those were lost. But that was over three years ago.

My experience with Kaysams (the kind with the ring above the neck) has been more varied. We flew some 3-4 years ago and had a good experience, but on my last order from them I think I got a lower-quality batch and got less altitude than expected.

73 de Mark N9XTN

----- Original Message -----
From: <ChrisV01@...>
To: <balloons-rockets@...>
Sent: Tuesday, April 12, 2005 3:58 PM
Subject: Re: [Balloons-Rockets] Comparing balloon prices - request for input

Kaysam was selling 1000-2000g balloons for $40-$100. MUCH cheaper than Kaymont's prices. Unfortunately they are going out of business soon if they
haven't already. I managed to get 8 100g balloons from them for $8.26 a piece.
I called up Kaymont a while back and they wanted $75 for their smallest sounding balloon, a 1500g one I think.

We really need some guy out there to figure out how to make these things in his garage for $10 a piece.

Chris
KB1LTH

----- Original Message -----
From: "Gerald Lehmacher" <glehmac@...>
To: "Discussion of Balloons-Rockets" <balloons-rockets@...>
Sent: Wednesday, April 13, 2005 9:05 AM
Subject: Re: [Balloons-Rockets] Comparing balloon prices - request for input

This is what I was quoted last year from Kaymont. But these were government contract prices. Items were in stock and delivered promptly. 3000 g balloons had 75 days delivery time. I purchased 300, 600, and 1500 g balloons.

KCI 300 15.00
KCI 600 25.00
KCI 1500 70.00
KCI 3000 225.00

Gerald Lehmacher, KI4CQJ

1201. Re: [GPSL] Comparing balloon prices - collected comments

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-19 03:09:00 UTC
From: Don KA0JLF
Topic: 1200 Message: 1201

Ralph, I saw you sent this to me at:
ka0jlf@... that email is no more. It went
away about a year ago or more. If you would like to
update your address book, ka0jlf@... is what I
use mostly for this type stuff. It is what my GPSL
list sends too. That's how I got this, I guess.

Thanks! 73,
Don

--- "Ralph Wallio, W0RPK" <wallio@...>
wrote:

> Thanks for all comments and information. Complete
> responses are collected
> far below. I have extracted several comments about
> pricing, service and
> other issues immediately below.
>
> It seems clear that Kaymont pricing is significantly
> less than Scientific
> Sales:
>
> BALLOON SS(includes s/h) Kaymont (s/h extra)
> 300 grams $30.00 $15
> 350 grams $35.00
> 500 grams $45.00
> 600 grams $60.00 $25
> 700 grams $70.00
> 800 grams $75.00
> 1000 grams $90.00
> 1200 grams $110.00 $55+$5s/h
> $50-55
> 1500 grams $125.00 $87 or $97
> $75 $75 $70
> 2000 grams $249.00
> 3000 grams $395.00 $230 $225
>
>
> Pricing comments:
>
> Current Kaymont quote for KCI-3000 $230 plus s/h
> (Mike Cook, KC0GMJ - ISU
> HABET)
>

> Last order from Kaymont [no date] KCI-1200 $55 plus
> $5 s/h (Paul Verhage,
> KD4STH)
>
> Kaymont quoted $87 (it might have been $97) for a
> KCI-1500 [no date] (Troy
> Campbell, KC0MIC - CAP-N-SPACE)
>
> Last summer [2004], I paid about $50-55 for 1200g
> balloons and $75 for 1500g
> from Kaymont. I believe on my order of four that
> shipping was $10 or $15.
> (Mark Conner, N9XTN - NSTAR)
>
> Kaymont $75 for their smallest sounding balloon, a
> 1500g one I think [no
> date] (Chris Valade, KB1LTH)
>
> Kaymont KCI 300 15.00 - KCI 600 25.00 - KCI 1500
> 70.00 - KCI 3000 225.00
> (government contract prices) (Gerald Lehmacher,
> KI4CQJ - Clemson Univ
> TigerCUB)
>
>
> It seems clear that Kaymont service is reasonable:
>
> "I have almost always been pleased with their
> [Kaymont] response." (Mike
> Cook, KC0GMJ - ISU HABET)
>
> "Last year [2004] I got two 1200's and two 300's.
> Response was fast, and so
> was shipping." (Andy MacAllister, W5ACM - BLT)
>
> "Usually the service is good. But it looks like if
> you place an order at
> the same time as the government, you'll get lost."
> (Paul Verhage, KD4STH)
>
> "Kaymont has been very responsive in the past for
> me." (Bill Brown, WB8ELK)
>
> "[Kaymont]1200s and 1500s were in stock and order to
> delivery was just over
> a week ..." (Mark Conner, N9XTN - NSTAR)
>
>
> Related comments:
>

> "Scientific Sales sells balloons by "The Weather
> Balloon Manufacturing
> Company" [not TOTEX as from Kaymont] also made in
> Japan." (Bill Brown,
> WB8ELK)
>
> "I've found that the Scientific Sales ballooons are
> very consistent...."
> (Bill Brown, WB8ELK)
>
> "As far as I could determine, balloons sold by
> Kaymont did not have serial
> numbers and it was therefore not possible for
> Kaymont to determine the date
> of manufacture nor the composition of the balloon."
> (Jim Woodyard, KC8MSY -
> Wayne State Univ SUNTRACKER)
>
> "I would welcome a technical contact at TOTEX to
> optimize balloon designs
> for our project." (Jim Woodyard, KC8MSY - Wayne
> State Univ SUNTRACKER)
>
>
>

>
> ----- Original Message -----
> From: "Michael J. Cook" <bilbomjc@...>
> To: "Ralph Wallio, W0RPK" <wallio@...>
> Sent: Tuesday, April 12, 2005 11:03 AM
> Subject: Re: Comparing balloon prices - request for
> input
>
>
> Ralph,
>
> We currently have an order pending from Kaymont. It
> is for 3000 gram
> balloons - the price quote is $230 less shipping. I
> have almost always
> been pleased with their response. Except for large
> balloons, they usually
> have them in stock (seems to have been a problem in
> the last year). We
> normally try to have around 10 balloons on hand at
> any given time because
> of the time lag that we have experienced.
>
> Mike

>
>

>
> ----- Original Message -----
> From: <Andrew.MacAllister@...>
> To: <wallio@...>
> Sent: Tuesday, April 12, 2005 11:16 AM
> Subject: RE: Comparing balloon prices - request for
> input
>
>
> Ralph,
>
> We do not need more balloons this year. In 2003 I
> could barely get a few
> 300 gr balloons from Kaymont. They could not ship
> 1200's. I think I may
> have gotten one 1000. Last year I got two 1200's
> and two 300's. Response
> was fast, and so was shipping. This year my primary
> 1200 is a year old and
> my backup is 3+ years old. I only seem to have one
> 300 on hand. It was
> NATO surplus via eBay, but it was the same Kaymont
> (Totex) balloon in a NATO
> outer foil wrapper! It's a few years old, but it
> looks good and will be
> used for a non-critical flight. I have only dealt
> with Kaymont. The other
> folks sound too expensive for our budget. We have
> $145 in the "jar", BUT we
> own our HE tanks this time - special deal.
>
> Check out the info at:
>
> http://www.qsl.net/w5acm for BLT-21 stuff.
>
> 73 de Andy W5ACM
>
>

>
> ----- Original Message -----
> From: "PAUL VERHAGE" <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Tuesday, April 12, 2005 11:18 AM
> Subject: Re: [GPSL] Comparing balloon prices -
> request for input
>

>
>
> In my last order from Kaymont, I paid about $55 for
> a 1200 gram balloon.
> Shipping was $5 as I recall.
>
> Usually the service is good. But it looks like if
> you place an order at
> the same time as the government, you'll get lost.
>
> Paul
>
>

>
> ----- Original Message -----
> From: <wb8elk@...>
> To: <GPSL@yahoogroups.com>
> Sent: Tuesday, April 12, 2005 11:57 AM
> Subject: Re: [GPSL] Comparing balloon prices -
> request for input
>
>
> According to the fellow at Scientific Sales....the
> balloons are not the same
> as those sold by Kaymont.
>
> Kaymont sells Totex balloons made in Japan.
>
> Scientific Sales sells balloons by "The Weather
> Balloon Manufacturing
> Company" also made in Japan.
>
> These two weather balloon companies are seperate
> entities although they look
> like they are made in the same manner.
>
> I've found that the Scientific Sales ballooons are
> very consistent....we
> typically have 18 to 19 pounds of lift in our
> balloons for the student
> experiments
> and the last few have burst within a thousand feet
> of 95,000 feet (the ones
> that weren't cut down).
>
> I haven't tried comparing the Kaymont balloons yet.
>
> Kaymont has been very responsive in the past for me.
>

> Scientific Sales has been very responsive as well.
>
> There are times that I've had trouble getting 1500
> gram balloons with either
> company though.
>
> In January I ordered and received two 2000 gram
> balloons from Scientific
> Sales....but the 3000 gram ones were a long
> lead-time special order.
>
> Kaymont may have a quicker way of getting the 3000
> gram sizes but I haven't
> checked yet about this...we've ordered 3000 gram
> balloons from them in the
> past
> however for the NASA Leonids experiments and those
> seemed to be very
> consistent as well...not sure about the
> availabililty of 2000 gram balloons.
>
> Perhaps it would be a good experiment to fly two
> payloads of the same weight
> with a Scientific Sales and Kaymont balloon on each
> to compare their
> performance...although I expect that they would be
> pretty close. It's been
> my
> experience that Kaysams go a bit higher for the same
> lift but they are
> harder to launch
> successfully in a strong wind....however they are
> out of business.
>
> - Bill WB8ELK
>
>

>
> ----- Original Message -----
> From: "James R. Woodyard" <woodyard@...>
> To: "Ralph Wallio, W0RPK" <wallio@...>
> Sent: Tuesday, April 12, 2005 12:07 PM
> Subject: Re: Comparing balloon prices - request for
> input
>
>
> Ralph,
> Thanks for carrying out this survey. It is an
> excellent service.

> I used Kaymont balloons when we started the
> Suntracker project in
> 1999 . I requested on several occasions the date of
> manufacture of the
> balloons that I purchased. I did not receive a
> response. As far as I
> could determine, balloons sold by Kaymont did not
> have serial numbers
> and it was therefore not possible for Kaymont to
> determine the date of
> manufacture nor the composition of the balloon. The
> composition is
> important in order to optimize the balloon
> performance for a given
> flight, e.g., day or night flights, launching in
> high surface winds
> etc. While the user does not need the composition,
> the manufacturer
> needs a batch number etc. in order to optimize the
> composition.
> Failing the availability of technical
> information from Kaymont,
> Kaysam balloons were purchased. Kaysam was
> forthcoming and
> cooperative. I purchased a number of balloons that
> were custom designed
> for our experiments. Now that they are out of
> business, I would welcome
> a technical contact at TOTEX to optimize balloon
> designs for our project.
> Thanks,
> Jim Woodyard
>
>

>
> ----- Original Message -----
> From: "Troy M Campbell" <troymc@...>
> To: "Ralph Wallio, W0RPK" <wallio@...>
> Sent: Tuesday, April 12, 2005 12:21 PM
> Subject: Re: Comparing balloon prices - request for
> input
>
>
> My last purchacse was from Kaysam, 1500gr for
> $63.00
> When I found out that Kaysam was going out of
> business
> I called Kaymont. The called back and quoted $87
> (it might have been $97).

> The response time was pretty good though I haven't
> purchased any yet.
>
> TMC
>
> Troy M. Campbell
> Epic Alliance, Inc.
> 913.227.0660
>
>

>
> ----- Original Message -----
> From: <n9xtn@...>
> To: <GPSL@yahoogroups.com>
> Sent: Tuesday, April 12, 2005 2:02 PM
> Subject: Re: [GPSL] Comparing balloon prices -
> request for input
>
>
>
> > 1200 grams $110.00
> > 1500 grams $125.00
> >
> > What is recent experience of Kaymont prices for
> the same balloons?
> > What was
> > charged for shipping and handling?
>
> Last summer, I paid about $50-55 for 1200g balloons
> and $75 for 1500g from
> Kaymont. I believe on my order of four that
> shipping was $10 or $15.
>
> > While we are at it, what is recent experience of
> Kaymont and
> > Scientific
> > Sales order response, e.g., have orders been
> shipped immediately,
> > did they
> > have stock at the time of order, et al?
>
> 1200s and 1500s were in stock and order to delivery
> was just over a week
> (UPS Ground from East Coast to Nebraska).
>
> If you get the guy who normally handles orders,
> you're OK. I've had two
> instances where I've left the info with whoever
> picked up the phone and

> those were lost. But that was over three years ago.
>
> My experience with Kaysams (the kind with the ring
> above the neck) has been
> more varied. We flew some 3-4 years ago and had a
> good experience, but on
> my last order from them I think I got a
> lower-quality batch and got less
> altitude than expected.
>
> 73 de Mark N9XTN
>
>

>
> ----- Original Message -----
> From: <ChrisV01@...>
> To: <balloons-rockets@...>
> Sent: Tuesday, April 12, 2005 3:58 PM
> Subject: Re: [Balloons-Rockets] Comparing balloon
> prices - request for input
>
>
> Kaysam was selling 1000-2000g balloons for $40-$100.
> MUCH cheaper than
> Kaymont's prices. Unfortunately they are going out
> of business soon if
> they
> haven't already. I managed to get 8 100g balloons
> from them for $8.26 a
> piece.
> I called up Kaymont a while back and they wanted $75
> for their smallest
> sounding balloon, a 1500g one I think.
>
> We really need some guy out there to figure out how
> to make these things in
> his garage for $10 a piece.
>
> Chris
> KB1LTH
>
>

>
> ----- Original Message -----
> From: "Gerald Lehmacher" <glehmac@...>
> To: "Discussion of Balloons-Rockets"
> <balloons-rockets@...>
> Sent: Wednesday, April 13, 2005 9:05 AM

> Subject: Re: [Balloons-Rockets] Comparing balloon
> prices - request for input
>
>
> This is what I was quoted last year from Kaymont.
> But these were
> government contract prices. Items were in stock and
> delivered promptly.
> 3000 g balloons had 75 days delivery time. I
> purchased 300, 600, and
> 1500 g balloons.
>
> KCI 300 15.00
> KCI 600 25.00
> KCI 1500 70.00
> KCI 3000 225.00
>
> Gerald Lehmacher, KI4CQJ
>
>

>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
>
>
>
>

Do you Yahoo!?
Yahoo! Mail - Find what you need with new enhanced search.
http://info.mail.yahoo.com/mail_250

1202. Fire In The Sky 2005 Rocket Launch PRESS RELEASE

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-19 22:22:16 UTC
From: Robert Nech
Topic: 1202 Message: 1202

Washington Aerospace Club

http://www.washingtonaerospace.org

Date: 14 April 2005 FOR IMMEDIATE RELEASE

PRESS RELEASE

Contact: Jim Wilkerson, Launch Director email: fits2005@...

FIRE IN THE SKY 2005 REGIONAL ROCKET LAUNCH

Mansfield, Washington

Memorial Day Weekend, May 28-30, 2005

The public is cordially invited to the Pacific NW?s premiere regional rocketry launch to kick off the rocket flying season during the Memorial Day weekend. Each year rocketeers from around the region and points more distant gather here in Mansfield, Washington to fly rockets ranging from model to very large high power rockets. Bring your own rockets to sharpen your flying skills here or simply watch some of the Pacific Northwest?s best rocketeers at work flying their rockets up to 17,000 feet above the ground at speeds well over Mach 1!

In addition to individual rocket flying there will be several other activities such as:

o NAR-certified model rocket contests

o Can-loft contest

o Night rocketry launch

o Rocket building workshop for the Douglas County youth

o Astronomy classes and star gazing with telescopes sponsored by the Tacoma Astronomical Society and taught by Joe Witherspoon

o BalloonSat/PongSat Workshop: Learn to build and fly a payload via weather balloon to 100,000 feet with recovery sponsored by the Treasure Valley Near Space Program and taught by Paul Verhage

o Raffle prizes

Admission is $5/day, $10/weekend (or $20 per family). Launching of rockets will commence each day at 8:00AM. On-site dry camping is available (no RV hook-ups).

Come on out to Mansfield for a great weekend of rocketry ? Fire In The Sky 2005!

# # #

If you would like additional information, please view the Fire In The Sky 2005 webpage at www.washingtonaerospace.org/fits2005.php.

If you would like to be removed from this once a year mailing, please reply and putting the word "REMOVE" in the subject line. Regards, Robert.

Do you Yahoo!?
Yahoo! Small Business - Try our new resources site!

1203. Kaysam balloon closeout bargains

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-21 06:36:17 UTC
From: wb8elk@aol.com
Topic: 1203 Message: 1203

Hey All,

Kaysam still has a number of 3000 gram and a couple of 2000 gram balloons left that you can probably get for a bargain. I just bought 10 of each for a little over $100 each. As of yesterday they had 34 of the 3000 gram and 4 of the 2000 gram balloons....once they sell their remaining balloon stock they are closing their doors....they also have a quantity of smaller balloons available as well. They'll probably be open for a week or so and then that's it.

- Bill WB8ELK

1204. Kaysam nearly sold out of 3000g balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-21 17:57:18 UTC
From: Mark Conner
Topic: 1204 Message: 1204

I just called Kaysam to order a 3000g balloon (was $200). There is one (1) 3000g left and no 2000g or 1500g balloons available as of 1245 CDT today. I did not ask about smaller sizes.

73 de Mark N9XTN

1205. Additional comments re Kaymont vs. Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-23 17:50:44 UTC
From: Ralph Wallio, W0RPK
Topic: 1205 Message: 1205

Comments from Merle McCaslin, K0YUK, EOSS:

----- Original Message -----
From: "merle mccaslin" <mmccaslin@...>
To: "Ralph Wallio" <wallio@...>
Cc: "Bill Brown" <wb8elk@...>; "Mike Manes" <manes@...>
Sent: Tuesday, April 19, 2005 9:36 PM
Subject: Fw: Attached Files

Ralph, Bill Brown
Mike Manes sent me your e-mail about balloons. Here are my comments

We have bought a few balloons from Scientific Sales the first couple of
1200 gram balloons were ok. Last year we had some bad results with
S.Sales
Here are the pictures of the 2000 gram balloon from Scientific Sales.
as found on launch day. The nozzle was cut off and the hole was marked
as you see when we opened the bag.
What I actual ordered was a 1500 gram balloon.
When I asked for a refund they told me fine the check would be in the
mail after 6 month and at least three calls no money. I called and asked
them to send me the value in pilot balloons. Which they did.

Also we have been flying a lot of 3000 gram balloons with 20 to 25 lb
payloads with poor results with altitude from Scientific Sales balloons as
compared to Kaymont.

1st 3000 S.Sales balloon with 25.3 lbs leaked and was floating at 40,626 ft
and had to be cut away
2nd 3000 S.Sales balloon we had a light payload for JATO of 12.95 lbs and it
burst at 77,480 ft.

With the Kaymont balloons 20.5 lbs the highest was 104.975 ft.
15 flights with Kaymont average of 23.66 lbs with average
altitude of 86,551. One burst early at 65,000 lowered the average.
So no more Scientific Sales balloons for me.

As far as availability it seems to be what is in stock or wait until the are
shipped from Japan. We are trying to place our orders several months in
advance.
The price for Kaymont (Totex) 3000 gram balloons in January was
$240.00 plus shipping.

I understand Kaysam is out of business.
Also Raven is now Areostar still have the same plastic balloons.

That has been our experience for what it is worth.
Merle McCaslin
EOSS

My comments:

I recently ordered a 100g from Scientific Sales via their web page. It arrived in a few days and the balloon appears to have no problems. It will soon be used to determine loss of lift over time due to helium migration through latex (more later).

The following table compares specified burst diameter and derived burst volume for 100-3000g balloons from Kaymont and Scientific Sales:

SPEC SPEC CALC
BARELY BURST BURST
SIZE DIA cm DIA cm VOL m^3
g SS KCI SS KCI SS KCI Compared
100 35 34 133 196 1.2 3.9 - 225%**
100 35 34 175 196 2.8 3.9 -39.3%**
200 48 55 270 300 10.3 14.1 -36.9%
300 60 69 390 378 31.1 28.3 + 9.9%
350 70 75 430 412 41.6 36.6 +13.7%
450 NA 86 NA 472 NA 55.1 NA
500 83 91 540 499 82.5 65.1 +26.7%
600 93 100 600 602 113.1 114.2 - 1.0%
700 102 109 650 653 143.8 145.8 - 1.4%
800 108 117 680 700 164.6 179.6 - 9.1%
1000 115 131 770 786 239.1 254.3 - 6.4%
1200 127 144 890 863 369.1 336.6 + 9.7%
1500 140 161 1000 944 523.6 440.5 +18.9%
2000 160 184 1100 1054 696.9 613.1 +13.7%
3000 190 227 1350 1300 1288.3 1150.4 +12.0%

[1] Scientific Sales (SS) specified as "uninflated diameter"
Kaymont KCI-series specified as "Barely Inflated Diameter"

[2] Specified BURST diameter

[3] Calculated BURST spherical volume

[4] Relative increase %
+ SS is larger -KCI is larger

** 133cm for SS100g is too low. Doubling of size (weight) should increase surface area by ~42%. Working backwards, SS100g burst diameter should be ~175cm.

Note that there is a wide range of differences in specified burst diameter and derived burst volume for balloons of the same size (by weight). Scientific Sales appears to have a consistent edge 1200-3000g (but remember that they cost a lot more). All other things being equal, greater volume capacity will yield higher burst altitude. The 18.9% advantage for a

Scientific Sales 1500g would add about 4kft to burst altitude in the 90-95kft range for a typical exempt flight.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1206. GPSL 2005 frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-25 21:32:45 UTC
From: n9xtn@cox.net
Topic: 1206 Message: 1206
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1207. Re: [GPSL] GPSL 2005 frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-26 13:25:06 UTC
From: PAUL VERHAGE
Topic: 1206 Message: 1207
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1208. Photo Essay of Flight #20 "Reach For Space" are posted

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-27 15:48:29 UTC
From: Jerome Doerrie
Topic: 1208 Message: 1208

A photo essay of Flight #20 of the Perryton High School ?Reach For Space? program is posted at url; http://almostangels.org/balloons/.

There has been some discussions on the need for a lense cover or something attached to payload containers to protect the camera inside. As an experiment an inexpensive Vivitar 3350 digital camera was taped to the outside of our ten meter beacon package. For a low resolution digital, the photos are great. The only modification to the camera was to have an ider pic chip for a beacon snap the shutter every 60 seconds. Fortunately for us, the stock batteries did not freeze and condensation was not a problem. See the web site for more details about the flight.

Jerome Doerrie, K5IS
Flight Director?Reach For Space

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1209. "ES-OS"

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-27 16:31:02 UTC
From: K. Mark Caviezel
Topic: 1209 Message: 1209

Mark:
Unfortunately, it looks like the "ES-OS" effort for
this year's GPSL will not be able to bear fruit. I
hope all the groups have excellent flights!

- KMC ng0x

1210. GPSL 2005 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-27 17:49:02 UTC
From: n9xtn@cox.net
Topic: 1210 Message: 1210

I have received an e-mail from Dr Larson indicating we have a reserved room in Roskins Hall at University of Nebraska-Omaha for our use all day on Friday, July 1st. I don't have a full description of the room, other than it's "high-tech" and no cost to us. It should be similar to the one Zack got for us last year. I'll get more info on whether it's wired or wireless Internet access, and the details on the projectors.

A campus map is at http://www.unomaha.edu/pages/map.html . The visitor parking that's mentioned on the page is not suitable for an all-day event like this. Parking passes are a possibility, and if that fails the parking garage at the southeast edge of campus has plenty of room and only costs 50 cents or $1 in quarters. Lower your antennas, though.

For hotels, I would suggest searching for hotels near 6001 Dodge Street in Omaha. There is a Residence Inn about 3/4 mile west of the campus that is pretty nice, but more expensive (discount for weekend days, though). There are 5 or 6 hotels of varying quality and price near the 72nd St exit off I-80. The 72nd St/I-80 is also halfway between the two launch sites I have picked out. One hotel near UNO I checked on is already sold out for Thursday night, but the others appear to be open so far. If you're bringing a spouse who will be exploring the downtown area on foot (Old Market, etc.) while you're doing balloon stuff, there are several hotels there as well.

Thanks to those who have already provided their frequency/payload listings.

73 de Mark N9XTN

1211. GPSL Lodging

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-27 20:24:25 UTC
From: Ralph Wallio, W0RPK
Topic: 1211 Message: 1211

UNO makes it easy to compare alternatives:

Go to http://www.unomaha.edu/

From the list far left select VISIT UNO

Under LODGING select links to lodging choices

A quick scan finds:

Holiday Inn $75/night (Big convention facility)

Hampton Inn $89 (Free breakfast)

Comfort Inn $86 (Free breakfast)

Econo Lodge $50

All are within reasonable driving distance but I don't have a clue about driving conditions. Econo Lodge is the closest (2mi west on Dodge St).

Should we select an alternative so that most of us are staying in the same place? If so, suggest which place.

With no coordination I will probably stay at the Comfort Inn.

-w0rpk

1212. Re: [GPSL] GPSL 2005 frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-27 22:29:38 UTC
From: Harry M
Topic: 1206 Message: 1212

Mark,

Can't seem to get to the www.nstar.org pages
or www.superlaunch.org as of 5:28 pm CDT.

Harry
KC5TRB

1213. Re: [GPSL] GPSL Lodging

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-27 22:37:26 UTC
From: n9xtn@cox.net
Topic: 1211 Message: 1213

72nd and Dodge is one of the busiest intersections in the city and making left turns through it can be time-consuming. However, this will be a problem mostly on Friday afternoon after the conference - the other times you'll be going straight through or turning right.

Obviously since I live here I have little experience with the hotels. There is one at the 72nd/I-80 interchange which I would not recommend, but not sure of the name (it's changed probably three times in as many years). I'll post once I drive past there and can see the name. It's not one of the ones Ralph listed - those are OK as far as I know.

The Econo Lodge is near Methodist and Children's Hospital and right next to a Village Inn. The others I believe will require a short drive to a restaurant.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
Date: Wednesday, April 27, 2005 3:24 pm
Subject: [GPSL] GPSL Lodging

>
> UNO makes it easy to compare alternatives:
>
> Go to http://www.unomaha.edu/
>
> From the list far left select VISIT UNO
>
> Under LODGING select links to lodging choices
>
> A quick scan finds:
>
> Holiday Inn $75/night (Big convention facility)
>
> Hampton Inn $89 (Free breakfast)
>
> Comfort Inn $86 (Free breakfast)
>
> Econo Lodge $50
>
> All are within reasonable driving distance but I don't have a clue
> about
> driving conditions. Econo Lodge is the closest (2mi west on Dodge
> St).
> Should we select an alternative so that most of us are staying in
> the same
> place? If so, suggest which place.

>
> With no coordination I will probably stay at the Comfort Inn.
>
> -w0rpk
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> Yahoo! Groups Links
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1214. RE: [GPSL] GPSL 2005 frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-28 00:58:53 UTC
From: Mark Conner
Topic: 1206 Message: 1214

Sheesh, get the renewal notice Monday and they've unhooked me by Wednesday.
Stand by.....

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry
M
Sent: Wednesday, April 27, 2005 17:30
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2005 frequency coordination

Mark,

Can't seem to get to the www.nstar.org pages
or www.superlaunch.org as of 5:28 pm CDT.

Harry
KC5TRB

Yahoo! Groups Links

1215. Re: [GPSL] GPSL 2005 frequency coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-28 03:24:04 UTC
From: Harry M
Topic: 1206 Message: 1215

Roger that! :)

> Sheesh, get the renewal notice Monday and they've unhooked me by
Wednesday.
> Stand by.....

1216. nstar.org and superlaunch.org temporarily down

Yahoo group: GPSL (2002 — 2008)
Date: 2005-04-28 16:52:30 UTC
From: n9xtn@cox.net
Topic: 1216 Message: 1216

I got my hosting/domain renewal notice for nstar.org on Monday, but they took the site off-line yesterday before I could get it renewed. The site is back (files are still there), but it may take another day or two before the host re-registers the domain (required manual intervention).

superlaunch.org points to a page on nstar.org, so that's why both are unavailable.

73 de Mark N9XTN

1217. www.superlaunch.org is back

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-03 23:48:31 UTC
From: Mark Conner
Topic: 1217 Message: 1217

The GPSL site http://www.superlaunch.org <http://www.superlaunch.org/>
should work now. If it does not, on WinXP systems go to Start|Run and enter

ipconfig /flushdns

to remove any unwanted DNS cache buildup.

73 de Mark N9XTN

1218. Re: [GPSL] www.superlaunch.org is back

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-04 12:49:57 UTC
From: David Hoffman
Topic: 1217 Message: 1218

It appears to be the http://www.nstar.org/?website that is down.
David Hoffman - KE4FGW

> The GPSL site http://www.superlaunch.org
> should work now. If it does not, on WinXP systems go to Start|Run and
> enter
>
>
>
>
> ipconfig /flushdns
>
>
>
> to remove any unwanted DNS cache buildup.
>
>
>
> 73 de Mark N9XTN
>
>
>
>

1219. Re: [GPSL] www.superlaunch.org is back

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-04 13:27:33 UTC
From: n9xtn@cox.net
Topic: 1217 Message: 1219

There appeared to be a bad DNS update that went out for www.nstar.org. Cox's nameserves cached a bad DNS lookup to 198.65.102.86 (here at work I have that too). However, if you use the site www.dnsstuff.com and do a lookup on www.nstar.org, you get 213.232.89.202 which appears to be the correct IP.

http://nstar.org did not have this problem.

73 de Mark N9XTN

1220. RE: [GPSL] www.superlaunch.org is back

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-04 13:38:30 UTC
From: Rick von Glahn
Topic: 1217 Message: 1220

Hmmm, works for me. However, I will say that until I executed Mark's:

ipconfig /flushdns

I was returning to the location that appeared when Mark started having problems.

Both nstar and superlaunch are loading just fine now after running that command.

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of David Hoffman
Sent: Wednesday, May 04, 2005 5:50 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] www.superlaunch.org is back

It appears to be the http://www.nstar.org/ website that is down.

David Hoffman - KE4FGW

> The GPSL site http://www.superlaunch.org
> should work now. If it does not, on WinXP systems go to Start|Run and
> enter
>
>
>
>
> ipconfig /flushdns
>
>
>
> to remove any unwanted DNS cache buildup.
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>
> 73 de Mark N9XTN
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>

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

1221. Re: GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-06 04:26:24 UTC
From: Mike Manes
Topic: 599 Message: 1221

Hi Ann,

Great! That brings the EOSS contingent up by two to 13!

Now, we still need someone to take the lead in finding rooms for our group in Omaha - Ralph has posted some info on the GPSL reflector.

73 de Mike W5VSI

Ann Foster wrote:

Mike

I have July 1-4 off and plan to be in Omaha. I also have a friend N0NMZ that should be there too. FYI

Ann K0ANN

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1222. Heat shields on hotwire cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-08 03:30:09 UTC
From: Zack Clobes
Topic: 1222 Message: 1222

Those of you using NiChrome for cutdown devices, what are you guys using as heat shields and insulation?

My experience is that the blue/pink Styrofoam will ignite under the right conditions (unlikely but possible). I've tried epoxy to keep it from burning through, but enough heat will melt the epoxy away.

Zack Clobes, W0ZC
Project: Traveler

1223. Re: [EOSS] Heat shields on hotwire cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-08 04:02:11 UTC
From: K. Mark Caviezel
Topic: 1223 Message: 1223

for most of my cutdowns I rig the flight string, then
the cutter nichrome, then I give it a wrap with silica
cloth tape. Then I use a normal desk stapler to keep
it in place. Very lightweight, and very heat/flame
proof, too.
I've often run commanded and timed 'watchdog'
timers, and having a 'watchdog' go off on the ground
in the most often bone dry Colorado area has always
been a concern.

- KMC

--- Zack Clobes <zclobes@...> wrote:
> Those of you using NiChrome for cutdown devices,
> what are you guys using
> as heat shields and insulation?
>
> My experience is that the blue/pink Styrofoam will
> ignite under the
> right conditions (unlikely but possible). I've
> tried epoxy to keep it
> from burning through, but enough heat will melt the
> epoxy away.
>
> Zack Clobes, W0ZC
> Project: Traveler
>

1224. RE: [GPSL] Heat shields on hotwire cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-08 16:46:59 UTC
From: Rochte, Robert
Topic: 1222 Message: 1224

>
>Those of you using NiChrome for cutdown devices, what are you
>guys using
>as heat shields and insulation?
>

I haven't used it yet, but a natural choice would be a short length of phenolic tubing. If you wanted to get fancy, you could even machine out an enclosure from rod stock. The phenolic will ablate but won't sustain a flame.

EPDM rubber would be another good choice with ablative properties.

73,
Robert
KC8UCH

1225. Re: [EOSS] Heat shields on hotwire cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-08 17:58:10 UTC
From: Mike Manes
Topic: 1223 Message: 1225

Hi Zack,

We mitigate the risk of fire by hitting the burner for just 10 seconds after receipt of a valid cutdown command. It takes jut 2 - 4 sec to effectively melt the nylon lift line, but there must be some tension on it to achieve sepataration. Once or twice, the line has melted w/o tension,
and it came back simply welded back together.

We wrap the burner in some refractory ceramic insulation fabric to about 1/4" thickness and then enclose the whole shebang in a 1/2" thick styrofoam clamshell covered with Al foil duct tape. I keep the 2" of burner feed wires closest the the burner inside the clamshell to avoid cooling to the slipstream. The clamshell is then closed with several wraps of common PVC electrical tape and secured to an anti-rotation yoke attached to the 'chute apex.

The inside surface of the styrofoam does melt back a bit, but it's never ignited.

73 de Mike W5VSI

Zack Clobes wrote:
>
> Those of you using NiChrome for cutdown devices, what are you guys using
> as heat shields and insulation?
>
> My experience is that the blue/pink Styrofoam will ignite under the
> right conditions (unlikely but possible). I've tried epoxy to keep it
> from burning through, but enough heat will melt the epoxy away.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
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>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1226. Re: [GPSL] Heat shields on hotwire cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-09 06:48:29 UTC
From: wb8elk@aol.com
Topic: 1222 Message: 1226

Hi Zack,

In the flight we recently did at UAH with a wireless nichrome cutter (I used a 315 MHz link between the cutter and the payload)....the nichrome wire was mounted on a PC board along with the 315 MHz receive board and was spaced away from the styrofoam by an inch or more....also, I had it rigged so that it would only activate the nichrome wire only as long as I held a single touchtone on during my command uplink...(after sending an ARM command sequence that latched the arm relay...the CUTDOWN relay was setup as a momentary relay). The touchtone control board activated the 315 MHz transmitter in the main payload. It took about 8 seconds to burn through the paracord we used.

73s de Bill WB8ELK

1227. gpsl 2005 hotels

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-10 22:15:59 UTC
From: Floyd Benjie Campbell
Topic: 1227 Message: 1227

Hi to the eoss trackers/launch team. Here is the hotel data that Larry noble wanted me to post. I have found many hotels at 72 street, also L street, just south of I-80, and several on 680, west of the college on Dodge and other streets. 72nd street has several, The Travel Lodge (55 a night), Holiday inn central (75 a night), and the Super 8 Ak-sar-ben, (75 a nite)all on or near 72nd stree. This is north of I 80 and south of Dodge. The college is at Dodge and 6oth street. Dodge is an east west road and the number streets are north south. Down further to the west, at the junction of I-80 and I-680 is L street. This is south of i_80 and it has mutltiple hotels, too numerous to mention, all between 65 and 90 a nite. The comfort inn, 83 a nite, Econolodge at 56 a nite, and the super 8 southwest at 75.00 a nite. I found these by going to Yahoo and clicking on travel, and putting in the dates, June 30 thru the 3, and then entering Omaha, NE and they all popped up. I am leaning on the L street hotels becuase they have more places nearby to eat at, and aren't that far from the college, 5 to 8 miles. We can drive up on 72nd street to Dodge and then head east to the campus. The hohtels are all new style in that you enter from the hall way, not the front of each room like the old holiday inns. Last year I tried to find a commnly acceptable hotel and wasnt able to get everyone to agree on the same one, so this year here are the choices and everyone can decide on their own. Benjie. W0CBH

1228. Balloon Zero mission recap and photos now online

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-13 07:08:24 UTC
From: wb8elk@aol.com
Topic: 1228 Message: 1228

Photos and data from last weekend's unusual flight of Balloon Zero from Huntsville, AL are now online:

http://www.wb8elk.com/BalloonZero.htm

Future launch announcements:

http://www.wb8elk.com

73s de Bill WB8ELK

1229. test

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-13 15:46:08 UTC
From: Marty Griffin
Topic: 1229 Message: 1229

[Body unavailable in the source archive]

1230. GPSL Hotels: Holiday Inn, 72nd and I-80

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-13 16:26:58 UTC
From: Marty Griffin
Topic: 1230 Message: 1230

Hello GPSL Folks,

It seems that the prevailing GPSL question is "At what hotel is everyone hanging at?" So Benjie, W0CBH and Marty, WA0GEH did a short study and decided to put a stake in the ground.

The Edge of Space Sciences (EOSS) folks will be staying at the Holiday Inn at 72nd and I-80. This facility has a large convention center, indoor Holidome for swapping stories, group gabs, and lies. High speed wireless access in all rooms. Plenty of (great) food around the area and a short distance to the campus (about 3 easy miles north on 72nd street, east on Dodge street to the campus).

We have arranged for a block of 20 rooms for $79.00 Single King Bed, $89.00 Double Beds. If we need more rooms, I will try to get the block expanded if rooms are available.
To register, call 1-402-393-3950 (see below) and mention "Great Plains Super Launch" or "GPSL" to acquire a room from the block and the GPSL rates. Make your reservations soon as this seems like a busy time. As a note, however, neither Benjie or I are managing the reservations, please call the hotel.

Mark, if you feel it is appropriate, you might mention this on the GPSL web site for those who are undecided or want to hang with the group. Thanks.

- Marty Griffin, WA0GEH
EOSS

Check it out...

OMAHA-CENTRAL (I-80)
3321 SOUTH 72ND ST
OMAHA, NE 68124
UNITED STATES
Tel: 1-402-3933950
Fax: 1-402-3931670

http://www.ichotelsgroup.com/h/d/pc/1/en/hd/omane?irs=y

GPSL page: http://www.nstar.org/GPSL2005/index.htm

EOSS page: www.eoss.org

1231. GPSL 2005 Hotels

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-13 17:20:35 UTC
From: Harry M
Topic: 1231 Message: 1231

I will be staying at the Comfort Inn 8736 West Dodge Rd.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

1232. Hotel Info for Project: Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-20 02:25:41 UTC
From: Zack Clobes
Topic: 1232 Message: 1232

At this point, it looks like Jon and myself will be staying at the Econolodge near 275 and I-80.

They supposedly have wireless Internet, an indoor pool, breakfast, etc.. for $56 a night.

Hotel information can be found on www.econolodge.com (it's the one at 10919 J. St, Omaha, NE) or by phone at 402-592-2882.

Zack

1233. Re: [GPSL] Hotel Info for Project: Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-20 03:05:57 UTC
From: Jon Riley
Topic: 1232 Message: 1233

Just booked it.Brenda and I will be there late Friday and will stay till checkout Sunday.

Jon AJ0NR
Brenda KC0HKU

Project:Traveler W0WR

Zack Clobes <zclobes@...> wrote:
At this point, it looks like Jon and myself will be staying at the
Econolodge near 275 and I-80.

They supposedly have wireless Internet, an indoor pool, breakfast, etc..
for $56 a night.

Hotel information can be found on www.econolodge.com (it's the one at
10919 J. St, Omaha, NE) or by phone at 402-592-2882.

Zack

Yahoo! Groups Links

1234. Re: [GPSL] Hotel Info for Project: Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-20 04:31:29 UTC
From: Mike Manes
Topic: 1232 Message: 1234

Sure beats $79/nite to flop at the Holiday Inn on MY nickel!

The XYL & did Econolodge in MT, and they had all those amenities as well. AARP discounts available at checkin.

73 de Mike W5VSI

Zack Clobes <zclobes@...> wrote:

At this point, it looks like Jon and myself will be staying at the
Econolodge near 275 and I-80.

They supposedly have wireless Internet, an indoor pool, breakfast, etc..
for $56 a night.

Hotel information can be found on www.econolodge.com (it's the one at
10919 J. St, Omaha, NE) or by phone at 402-592-2882.

Zack
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1235. Re: [GPSL] Hotel Info for Project: Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-20 14:04:05 UTC
From: Marty Griffin
Topic: 1232 Message: 1235

Hi Folks,

Thanks Zack,

The Holiday Inn is now requiring a contract for the before-stated rates that I am not going to sign. That deal is off. Big business!

Therefore, I will probably find my way to the Econo Lodge also.

- Marty Griffin, WA0GEH

---------- Original Message ----------
From: Zack Clobes <zclobes@...>
Reply-To: GPSL@yahoogroups.com
Date: Thu, 19 May 2005 21:25:41 -0500

>At this point, it looks like Jon and myself will be staying at the
>Econolodge near 275 and I-80.
>
>They supposedly have wireless Internet, an indoor pool, breakfast, etc..
>for $56 a night.
>
>
>Hotel information can be found on www.econolodge.com (it's the one at
>10919 J. St, Omaha, NE) or by phone at 402-592-2882.
>
>Zack
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>Yahoo! Groups Links
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1236. Re: [GPSL] Hotel Info for Project: Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-20 15:55:03 UTC
From: Zack Clobes
Topic: 1232 Message: 1236

I know they have a AAA discount which takes about $6 a night off.

Zack

Mike Manes wrote:

>Sure beats $79/nite to flop at the Holiday Inn on MY nickel!
>
>The XYL & did Econolodge in MT, and they had all those amenities as
>well. AARP discounts available at checkin.
>
>73 de Mike W5VSI
>
>
>Zack Clobes <zclobes@...> wrote:
>
> At this point, it looks like Jon and myself will be staying at
>the
> Econolodge near 275 and I-80.
>
> They supposedly have wireless Internet, an indoor pool,
>breakfast, etc..
> for $56 a night.
>
>
> Hotel information can be found on www.econolodge.com (it's the
>one at
> 10919 J. St, Omaha, NE) or by phone at 402-592-2882.
>
> Zack
>
>

1237. [Fwd: FWD: Re: [GPSL] Hotel Info for Project: Traveler]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-20 21:49:18 UTC
From: Mike Manes
Topic: 1237 Message: 1237

-------- Original Message --------
Subject: FWD: Re: [GPSL] Hotel Info for Project: Traveler
Date: Fri, 20 May 2005 08:11:35 -0600
From: "Marty Griffin" <mgriffin@...>
Reply-To: <mgriffin@...>
To: <manes@...>

Hi Mike,
Please pass this on to the GPSL Yahoo site. I am having some email
problems here. Thanks, - Marty

---------- Original Message ----------
From: "Marty Griffin" <mgriffin@...>
Reply-To: GPSL@yahoogroups.com
Date: Fri, 20 May 2005 08:04:05 -0600

Hi Folks,

Thanks Zack,

The Holiday Inn is now requiring a contract for the before-stated rates
that I am not going to sign. That deal is off. Big business!

Therefore, I will probably find my way to the Econo Lodge also.

- Marty Griffin, WA0GEH

---------- Original Message ----------
From: Zack Clobes <zclobes@...>
Reply-To: GPSL@yahoogroups.com
Date: Thu, 19 May 2005 21:25:41 -0500

>At this point, it looks like Jon and myself will be staying at the
>Econolodge near 275 and I-80.
>
>They supposedly have wireless Internet, an indoor pool, breakfast, etc..
>for $56 a night.
>
>
>Hotel information can be found on www.econolodge.com (it's the one at
>10919 J. St, Omaha, NE) or by phone at 402-592-2882.
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>Zack
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>Yahoo! Groups Links

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Yahoo! Groups Links

1238. GPSL Hotel Update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-21 02:38:54 UTC
From: Marty Griffin
Topic: 1238 Message: 1238

Hi Folks,
Hope this is not too much of an inconvenience, but the Holiday Inn wanted a contract and all I wanted to do was provide a favor. So no contract. I will probably go to the Econo Lodge. Sorry if this caused any inconvenience.
- Marty

-----Original Message-----
From: Mike Manes [mailto:manes@...]
Sent: Friday, May 20, 2005 2:51 PM
To: Marty Griffin WA0GEH
Subject: Re: [GPSL] Hotel Info for Project: Traveler

Hey Marty,

Are you gonna advise the rest of the EOSS contingent to follow suit?
If so, any special group deals at the EconoLodge?

73 de Mike W5VSI

Marty Griffin wrote:
>
> Hi Folks,
>
> Thanks Zack,
>
> The Holiday Inn is now requiring a contract for the before-stated rates that I am not going to sign. That deal is off. Big business!
>
> Therefore, I will probably find my way to the Econo Lodge also.
>
> - Marty Griffin, WA0GEH
>
> ---------- Original Message ----------
> From: Zack Clobes <zclobes@...>
> Reply-To: GPSL@yahoogroups.com
> Date: Thu, 19 May 2005 21:25:41 -0500
>
> >At this point, it looks like Jon and myself will be staying at the
> >Econolodge near 275 and I-80.
> >
> >They supposedly have wireless Internet, an indoor pool, breakfast, etc..
> >for $56 a night.
> >
> >
> >Hotel information can be found on www.econolodge.com (it's the one at

> >10919 J. St, Omaha, NE) or by phone at 402-592-2882.
> >
> >Zack
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> >Yahoo! Groups Links
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>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1239. GPA Sky Diamond 7 solar Montgolfier record entries

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-22 10:22:40 UTC
From: Ralph Wallio, W0RPK
Topic: 1239 Message: 1239

GPA Sky Diamond 7 flight of 21May05 (KC8UCH-11) is in our record books as follows:

Longest Great Circle Distance, Release to Touchdown:
429.28mi 7th place
Robert's solar flights currently hold 4th and 7th-9th of top 10 positions

Longest Mission In Time, Release to Touchdown:
16h16m 2nd place
Robert's solar flights currently hold 2nd, 4th and 5th of top 10 positions

These record entries do not qualify for 2005 contests because SD-7 was not announced 24hrs before launch.

See http://users.crosspaths.net/wallio/RECORDS.htm for all current Amateur Radio High Altitude Ballooning flight records.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1240. Call for updates on speakers and group participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-26 13:20:33 UTC
From: Mark Conner
Topic: 1240 Message: 1240
Attachments: 1 described; binary payloads are missing from this source WARC

Everyone,

Please check www.superlaunch.org <http://www.superlaunch.org/> for your group's status on flying a balloon at GPSL. If it's not correct (you're definitely coming and not tentative, or are definitely not flying, or not on the list and should be) let me know by e-mail. Those groups planning to attend but not flying their own balloons do not have to send me anything - there is no formal registration to attend the conference.

If you are planning to fly, even tentatively, send in a frequency coordination worksheet (attached). If you have not sent me one for your group, please do so within the next week. We need to get time slots assigned soon so that people who have to program their payloads can do so - otherwise, you'll have to find your own unoccupied downlink frequency. For APRS, we'll concentrate on 144.34 MHz, with 144.36 as an alternate. 144.39 will be used mainly for low-rate backups and the like.

I'm on the road this week, so I don't have my list of who has and has not turned in worksheets. If in doubt, send it again - electrons are cheap.

If you have a formal presentation you'd like to give, let me know. We do plan to have the opportunity for "what we did last summer" talks from any group that wishes to do so. I have two topics from W0RPK and one from KD4STH.

After I get back to Omaha next week, I plan to start putting together the frequency coordination and the agenda. June is going to be a busy month between work, family, and GPSL prep - please help by getting your information in early.

This should be a really big event. I just hope that the weather doesn't force us to cancel flying completely. It would be unusual, but not impossible, to have two consecutive days of unflyable weather in early July.

73 de Mark N9XTN

1241. Balloons and helium

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-26 13:28:25 UTC
From: Mark Conner
Topic: 1241 Message: 1241

WB8ELK and I will have spare balloons available at the launch site should someone need one. The "launch day markup" won't be too exorbitant.. :-).

I have not yet checked to see if we can get a discount for helium. I've been told some lucky people can get it for $35 per T-tank.

73 de Mark N9XTN

1242. Re: [GPSL] Call for updates on speakers and group participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-26 21:49:14 UTC
From: Shermane Austin
Topic: 1240 Message: 1242

From the MECSAT group.
This is our first multiple balloon flight and so far, we've only used APRS for tracking. Could you explain how frequency coordination is done? I was planning on using 144.34 as primary and 144.39 as secondary. Should we plan instead on 144.36? Also is anyone doing ATV? We'd like to try this there - on 439.25Mhz. Is this realistic? We pretty new to ATV.

>Everyone,
>
>Please check <http://www.superlaunch.org/>www.superlaunch.org for
>your group's status on flying a balloon at GPSL. If it's not
>correct (you're definitely coming and not tentative, or are
>definitely not flying, or not on the list and should be) let me know
>by e-mail. Those groups planning to attend but not flying their own
>balloons do not have to send me anything - there is no formal
>registration to attend the conference.
>
>If you are planning to fly, even tentatively, send in a frequency
>coordination worksheet (attached). If you have not sent me one for
>your group, please do so within the next week. We need to get time
>slots assigned soon so that people who have to program their
>payloads can do so - otherwise, you'll have to find your own
>unoccupied downlink frequency. For APRS, we'll concentrate on
>144.34 MHz, with 144.36 as an alternate. 144.39 will be used mainly
>for low-rate backups and the like.
>
>I'm on the road this week, so I don't have my list of who has and
>has not turned in worksheets. If in doubt, send it again -
>electrons are cheap.
>
>If you have a formal presentation you'd like to give, let me know.
>We do plan to have the opportunity for "what we did last summer"
>talks from any group that wishes to do so. I have two topics from
>W0RPK and one from KD4STH.
>
>After I get back to Omaha next week, I plan to start putting
>together the frequency coordination and the agenda. June is going
>to be a busy month between work, family, and GPSL prep - please help
>by getting your information in early.
>
>This should be a really big event. I just hope that the weather
>doesn't force us to cancel flying completely. It would be unusual,
>but not impossible, to have two consecutive days of unflyable
>weather in early July.

>
>73 de Mark N9XTN
>
>
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>
>Yahoo! Groups Links
>
>To visit your group on the web, go to:
><http://groups.yahoo.com/group/GPSL/>http://groups.yahoo.com/group/GPSL/
>
>To unsubscribe from this group, send an email to:
><mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroups
.com
>
>Your use of Yahoo! Groups is subject to the
><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>Attachment converted: Macintosh HD:GPSL 2005 Freq Coordi≠B17A3.doc
>(WDBN/MSWD) (000B17A3)

--

Shermane A. Austin, Ph.D.
Associate Professor, Computer Science
Project Director, NASA/MUSPIN CUNY NRTS
Medgar Evers College
1150 Carroll Street
Brooklyn, NY 11225
Email: shermane@...
Voice: 718-270-6038
Fax: 718-270-6197
Callsign: KC2NAZ

"Black holes are God's way of dividing by zero"
-seen on a button

1243. Re: [GPSL] Balloons and helium

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-26 21:57:05 UTC
From: Shermane Austin
Topic: 1241 Message: 1243

MECSAT again:
What balloons do you have and what vendor are you
using? We want to fly 1500g balloons and if you
have some on hand and the cost is low, we may
just get them from you. We have used Kaysam which
is now out of business and I'm not sure the
quality was that great. Our last flight, we used
Scientific Sales which is a little pricey and for
local launches, I think we'll go with Kaymont
next time. Also, we definitely want in on the
group helium buy and will wait for the details.

>WB8ELK and I will have spare balloons available
>at the launch site should someone need one. The
>"launch day markup" won't be too exorbitant□. J.
>
>I have not yet checked to see if we can get a
>discount for helium. I've been told some lucky
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>
>73 de Mark N9XTN
>
>
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>To visit your group on the web, go to:
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>
>To unsubscribe from this group, send an email to:
><mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroups.com
>
>Your use of Yahoo! Groups is subject to the
><http://docs.yahoo.com/info/terms/>Yahoo! Terms
>of Service.

--

Shermane A. Austin, Ph.D.
Associate Professor, Computer Science
Project Director, NASA/MUSPIN CUNY NRTS
Medgar Evers College
1150 Carroll Street
Brooklyn, NY 11225
Email: shermane@...

Voice: 718-270-6038
Fax: 718-270-6197
Callsign: KC2NAZ

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1244. Re: Call for updates on speakers and group participation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-29 14:46:55 UTC
From: Antonio R. Santiago
Topic: 1240 Message: 1244

Hi:

Combining ATV with balloon flights is very interesting.
I am ready to launch my first high altitude balloon and
microsatellite fully equipped with ATV and APRS.

I have several pictures of the micro-satellite COQUI-1.
If administrator of this group authorize me to post the pictures i
will send later ok.

Greetings from Puerto Rico & good luck..!

Feel free to visit and register here:

http://groups.yahoo.com/group/metrovision-atv/

73's
Tony-KP4IA

--- In GPSL@yahoogroups.com, Shermane Austin <shermane@v...> wrote:
> From the MECSAT group.
> This is our first multiple balloon flight and so far, we've only
used
> APRS for tracking. Could you explain how frequency coordination is
> done? I was planning on using 144.34 as primary and 144.39 as
> secondary. Should we plan instead on 144.36? Also is anyone doing
> ATV? We'd like to try this there - on 439.25Mhz. Is this
realistic?
> We pretty new to ATV.
>
>
> >Everyone,
> >
> >Please check <http://www.superlaunch.org/>www.superlaunch.org for
> >your group's status on flying a balloon at GPSL. If it's not
> >correct (you're definitely coming and not tentative, or are
> >definitely not flying, or not on the list and should be) let me
know
> >by e-mail. Those groups planning to attend but not flying their
own
> >balloons do not have to send me anything - there is no formal
> >registration to attend the conference.
> >
> >If you are planning to fly, even tentatively, send in a frequency
> >coordination worksheet (attached). If you have not sent me one
for
> >your group, please do so within the next week. We need to get

time
> >slots assigned soon so that people who have to program their
> >payloads can do so - otherwise, you'll have to find your own
> >unoccupied downlink frequency. For APRS, we'll concentrate on
> >144.34 MHz, with 144.36 as an alternate. 144.39 will be used
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> >for low-rate backups and the like.
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> >I'm on the road this week, so I don't have my list of who has and
> >has not turned in worksheets. If in doubt, send it again -
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> >If you have a formal presentation you'd like to give, let me know.
> >We do plan to have the opportunity for "what we did last summer"
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> >by getting your information in early.
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> >This should be a really big event. I just hope that the weather
> >doesn't force us to cancel flying completely. It would be
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> >but not impossible, to have two consecutive days of unflyable
> >weather in early July.
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> >73 de Mark N9XTN
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> >Yahoo! Groups Links
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> >To visit your group on the web, go to:
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><http://groups.yahoo.com/group/GPSL/>http://groups.yahoo.com/group/GP
SL/
> >
> >To unsubscribe from this group, send an email to:
> ><mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-
unsubscribe@yahoogroups.com
> >
> >Your use of Yahoo! Groups is subject to the
> ><http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
> >
> >Attachment converted: Macintosh HD:GPSL 2005 Freq Coordi#B17A3.doc
> >(WDBN/MSWD) (000B17A3)

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>
> --
> --
> Shermane A. Austin, Ph.D.
> Associate Professor, Computer Science
> Project Director, NASA/MUSPIN CUNY NRTS
> Medgar Evers College
> 1150 Carroll Street
> Brooklyn, NY 11225
> Email: shermane@v...
> Voice: 718-270-6038
> Fax: 718-270-6197
> Callsign: KC2NAZ
> --
> "Black holes are God's way of dividing by zero"
> -seen on a button
> --

1245. Balloons and Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-31 14:52:13 UTC
From: PAUL VERHAGE
Topic: 1245 Message: 1245

At Fire in the Sky, a high power rocket launch, amateur astronomers set up telescope for public use. During the day, I had them turn a couple of telescopes to the balloon we launched. At 87,000 feet we could see the balloon and payload clearly at 48 power.

The payload string was swingly until 80,000 feet, when it hung still. At balloon burst, the latex and talcum power formed a disk of stars above the parachute. The astronomers were able to follow the parachute all the way down. It was amazing!

We ought to see if we can get the Ohama Astronomical Society to do a visual track on the balloons we're launching. I'd like to see them get some photos. Mark, will you have time to do this? I was a member of the club when I was stationed at SAC. I can contact them if you're already busy enough.

Paul

1246. W0RPK staying at EconoLodge & CubeSat meeting

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-31 16:11:45 UTC
From: Ralph Wallio, W0RPK
Topic: 1246 Message: 1246

If anybody dares to care, I have reservations at the same EconoLodge Zach and Jon will be staying at. My alleged plan is to arrive in time for lunch on Thursday and then will be meeting informally with CubeSat teams from the University of Kansas, Taylor University and (possibly) Iowa State University. This gathering will be held in the EconoLodge meeting room.

Anyone is welcome to join us. See
http://cubesat.calpoly.edu/_new/index.html and
http://www.engr.ku.edu/ae/kutesat.htm and
http://www.css.tayloru.edu/~physics/picosat/ and
http://cosmos.ssol.iastate.edu/cysat/ for more info about CubeSats.

I will then be available for an informal evening meal somewhere with someone.

http://www.econolodge.com/
10919 J St. , Omaha, NE, US, 68137
Phone: (402) 592-2882 Fax: (402) 592-2882

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1247. Re: [GPSL] Balloons and Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-31 17:02:02 UTC
From: Zack Clobes
Topic: 1245 Message: 1247

What were the winds doing on this particular flight near burst?

Zack

PAUL VERHAGE wrote:

>At Fire in the Sky, a high power rocket launch, amateur astronomers set
>up telescope for public use. During the day, I had them turn a couple
>of telescopes to the balloon we launched. At 87,000 feet we could see
>the balloon and payload clearly at 48 power.
>
>The payload string was swingly until 80,000 feet, when it hung still.
>At balloon burst, the latex and talcum power formed a disk of stars
>above the parachute. The astronomers were able to follow the parachute
>all the way down. It was amazing!
>
>We ought to see if we can get the Ohama Astronomical Society to do a
>visual track on the balloons we're launching. I'd like to see them get
>some photos. Mark, will you have time to do this? I was a member of
>the club when I was stationed at SAC. I can contact them if you're
>already busy enough.
>
>Paul
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>Yahoo! Groups Links
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1248. Re: [GPSL] Balloons and Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-05-31 19:13:36 UTC
From: PAUL VERHAGE
Topic: 1245 Message: 1248

I got the data set for this flight this morning, so I haven't had time
to look at them. The winds did get light with altitude, but as I
recall, they were light much lower than 80,000 feet.

I'll gen the charts tonight and pass the results along.

Paul

>>> zclobes@... 05/31/05 11:02 AM >>>
What were the winds doing on this particular flight near burst?

Zack

PAUL VERHAGE wrote:

>At Fire in the Sky, a high power rocket launch, amateur astronomers set
>up telescope for public use. During the day, I had them turn a couple
>of telescopes to the balloon we launched. At 87,000 feet we could see
>the balloon and payload clearly at 48 power.
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>The payload string was swingly until 80,000 feet, when it hung still.
>At balloon burst, the latex and talcum power formed a disk of stars
>above the parachute. The astronomers were able to follow the parachute
>all the way down. It was amazing!
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>We ought to see if we can get the Ohama Astronomical Society to do a
>visual track on the balloons we're launching. I'd like to see them get
>some photos. Mark, will you have time to do this? I was a member of
>the club when I was stationed at SAC. I can contact them if you're
>already busy enough.
>
>Paul
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>Yahoo! Groups Links
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Yahoo! Groups Links

1249. thirteen gram IMU

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-01 14:13:31 UTC
From: K. Mark Caviezel
Topic: 1249 Message: 1249

All:
wow, what a breakthrough product.

http://www.continentalctrls.com/images/stories/PDF_files/tge%20datasheet.pdf

- KMC ng0x Denver

1250. APRS path question

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 09:04:11 UTC
From: wb8elk@aol.com
Topic: 1250 Message: 1250

I've used RELAY, WIDE, WIDE and also RELAY, WIDE2-2 in past flights....is there a consensus as to the best path to use so as not to tie up the APRS network but still get good updates?

Just curious what path other groups have been using.

- Bill WB8ELK

1251. RE: [GPSL] APRS path question

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 12:14:55 UTC
From: Rochte, Robert
Topic: 1250 Message: 1251

Bob Bruninga has recently recommended alternating paths of WIDE and WIDE2-2. The WIDE is still used in case the digis in your flight area haven't yet switched to the new WIDEn-n paradigm. RELAY and WIDE1-1 shouldn't be used at altitude at all.

These alternating paths worked fine on my recent SD7 flight - the only problems were caused by flying over Ohio on the same day as Hamvention (the network was just a *little* congested that day!)....

73,
Robert
KC8UCH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of wb8elk@...
Sent: Friday, June 03, 2005 5:04 AM
To: gpsl@yahoogroups.com
Subject: [GPSL] APRS path question

I've used RELAY, WIDE, WIDE and also RELAY, WIDE2-2 in past flights....is there a consensus as to the best path to use so as not to tie up the APRS network but still get good updates?

Just curious what path other groups have been using.

- Bill WB8ELK

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/ <http://groups.yahoo.com/group/GPSL/>

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

1252. RE: [GPSL] APRS path question

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 12:48:24 UTC
From: David Hoffman
Topic: 1250 Message: 1252

There was a balloon flight over Hamvention on that weekend? Wow, did I
miss the announcements?

David Hoffman - KE4FGW

> Bob Bruninga has recently recommended alternating paths of WIDE and
> WIDE2-2.
> The WIDE is still used in case the digis in your flight area haven't yet
> switched to the new WIDEn-n paradigm. RELAY and WIDE1-1 shouldn't be used
> at altitude at all.
>
> These alternating paths worked fine on my recent SD7 flight - the only
> problems were caused by flying over Ohio on the same day as Hamvention
> (the
> network was just a *little* congested that day!)....
>
> 73,
> Robert
> KC8UCH
>
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
> wb8elk@...
> Sent: Friday, June 03, 2005 5:04 AM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] APRS path question
>
>
>
> I've used RELAY, WIDE, WIDE and also RELAY, WIDE2-2 in past flights....is
> there a consensus as to the best path to use so as not to tie up the APRS
> network but still get good updates?
>
> Just curious what path other groups have been using.
>
> - Bill WB8ELK
>
>
> -----
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> Yahoo! Groups Links
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> * To visit your group on the web, go to:

> http://groups.yahoo.com/group/GPSL/ <http://groups.yahoo.com/group/GPSL/>
>
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
>

1253. RE: [GPSL] APRS path question

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 13:19:15 UTC
From: Rochte, Robert
Topic: 1250 Message: 1253

>
>There was a balloon flight over Hamvention on that weekend? Wow, did I
>miss the announcements?
>

Yes, the flight started north of Detroit, spent most of the day over
south-central Ohio and landed just north of the North Carolina border near
Stuart, VA, around midnight. The announcement didn't go out until that
morning, so few people looked for it.

I had this bright idea that we'd give all of the APRS users at Hamvention
something to see - without considering just how clogged the network would be
that day! The result was that very few packets were Igated once the balloon
was over central Ohio (the bulk of the flight)...

The track is still viewable on APRSworld.net - callsign used was KC8UCH-11.

73,
Robert

1254. Re: [GPSL] APRS path question

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 15:42:39 UTC
From: n9xtn@cox.net
Topic: 1250 Message: 1254

Much of the central/western Iowa area is migrating away from the use of RELAY and WIDE. Eastern Nebraska still uses both, but is also capable of WIDEN-n.

My recommendation for any 144.39 balloon beacons is to use WIDE2-1. This will give you one hop through any of the WIDEN-n digipeaters in the area. I think running WIDE2-2 with an airborne beacon would cause a lot of QRM (two hops), especially since many of us will be running backup beacons on 144.39.

Besides, it is unlikely we'll be landing close enough to a RELAY-only station to be of any use for final location tracking.

73 de Mark N9XTN

----- Original Message -----
From: wb8elk@...
Date: Friday, June 3, 2005 4:04 am
Subject: [GPSL] APRS path question

> I've used RELAY, WIDE, WIDE and also RELAY, WIDE2-2 in past
> flights....is
> there a consensus as to the best path to use so as not to tie up
> the APRS network
> but still get good updates?
>
> Just curious what path other groups have been using.
>
> - Bill WB8ELK
>
>

1255. airborne paths... hate mail... fan mail....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 18:07:37 UTC
From: K. Mark Caviezel
Topic: 1255 Message: 1255

> These alternating paths worked fine on my recent SD7
> flight - the only
> problems were caused by flying over Ohio on the same
> day as Hamvention (the
> network was just a *little* congested that day!)....

seems odd. from that altitude, your package should have gotten into igates in adjacent states. The pocket tracker + twin lead jpole that I flew on an EOSS flight launched from Windsor (60 miles north of Denver) last year got i-gated ok but curiously it was not i-gated at all from any Denver area i-gates. (EOSS is normally pretty averse to putting anything on 144.39, they often have 4-5 i-gates QSY to different frequencies, maybe no-one was listening/gating on 144.39 then) All but one of the i-gates that gated my payload were out of state. The one i-gate in Colorado was in Monument, just south of the palmer divide, a high region that seals off Denver from the south of the state. And to get into the Monument i-gate, it was a trick shot from the Walsenburg digipeater about 200 miles south of the balloon, then back north to the i-gate, about 80 miles north of the digi. For the record, this was flown with the old-school 'WIDE', in the future I'll probably opt for WIDE2-1 or even WIDE2-2. For those of you who haven't kept up, 'new paradigm paths' are underfoot. If I understand correctly WIDE1-1 is the same as RELAY used to be and WIDE2-1 is not the same thing as WIDE1-1.

Anywhooo, airborne paths discussion attracts plenty of opinions and a lesser amount of knowledge. I've had plenty of hams tell me that beaconning on 144.39 either won't work or is just so darn impactful that it is inconsiderate to do so. My experience is that it does work, it can work well, and I've *never* gotten complaints from anyone who actually recieved the signal, but I have recieved some 'hate mail' from people theorizing about how overloaded their metro area aprs network would be when my rock crushing 200mW beacon sends out once a minute position reports on 144.39 from 300 miles away. Counter to the above position, I get as much 'fan mail' from hams that say "high altitude balloon flights are amongst the coolest application of APRS. PLEASE beacon on 144.39 so as to

share the event with hams from far off."

I'd be very interested to hear who's using what paths and how well they work and if any area was so clobbered by it that they sent complaints to the balloon-flier.

best regards,

- KMC ng0x Denver

1256. RE: [GPSL] airborne paths... hate mail... fan mail....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 18:08:16 UTC
From: Rochte, Robert
Topic: 1255 Message: 1256

My experience has been identical to what you describe below... The only complaints have been from people on the TAPR mailing list - when I have asked for data that supports the "network congestion" argument, I have received no responses (other than more speculation with lots of questionable math). Nonetheless, I asked for path suggestions on the TAPR list before this most recent flight and the alternating WIDE and WIDE2-2 paths were the consensus opinion.

The reasoning behind the alternating paths (which a TinyTrak does easily and an Opentracker can be tricked into doing) is to cover both old- and new-paradigm digis... My understanding is that the old ones won't respond to WIDEn-n and the new ones won't respond to WIDE.

On the recent SD7 flight, the only packets that were Igated while floating over Ohio went through out-of-state digis (NY and PA). My antenna was less than optimal (a 1/4 wave whip with a wire counterpoise), so I count myself lucky for getting through at all.

-R

>Anywhooo, airborne paths discussion attracts plenty of
>opinions and a lesser amount of knowledge. I've had
>plenty of hams tell me that beaconning on 144.39
>either won't work or is just so darn impactful that it
>is inconsiderate to do so. My experience is that it
>does work, it can work well, and I've *never* gotten
>complaints from anyone who actually recieved the
>signal, but I have recieved some 'hate mail' from
>people theorizing about how overloaded their metro
>area aprs network would be when my rock crushing 200mW
>beacon sends out once a minute position reports on
>144.39 from 300 miles away. Counter to the above
>position, I get as much 'fan mail' from hams that say
>"high altitude balloon flights are amongst the coolest
>application of APRS. PLEASE beacon on 144.39 so as to
>share the event with hams from far off."

1257. Re: [GPSL] airborne paths... hate mail... fan mail....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 19:00:41 UTC
From: Bob Bailey
Topic: 1255 Message: 1257

I wonder how many digi sites that are most likely in a location that is not easily accessable that are able to change from 144.39 to 144.34 on the fly to accomodate an occasional and very much welcomed APRS test from a balloon. My digi (MRIDGE) is on a 130 ft grain elevator that I must sign in (since homeland security) to visit and they are now closed on Saturday.

So no more impact an occasional balloon can create should be met with a "bite me" and go with 144.39 for those that are interested may appreciate the effort and those that don't can "bite me". and runthe balloon on a channel that the most can enjoy for the moment.

Bob KA0MR

"K. Mark Caviezel" <kmcaviezel@...> wrote:
> These alternating paths worked fine on my recent SD7
> flight - the only
> problems were caused by flying over Ohio on the same
> day as Hamvention (the
> network was just a *little* congested that day!)....

seems odd. from that altitude, your package should have gotten into igates in adjacent states. The pocket tracker + twin lead jpole that I flew on an EOSS flight launched from Windsor (60 miles north of Denver) last year got i-gated ok but curiously it was not i-gated at all from any Denver area i-gates. (EOSS is normally pretty averse to putting anything on 144.39, they often have 4-5 i-gates QSY to different frequencies, maybe no-one was listening/gating on 144.39 then) All but one of the i-gates that gated my payload were out of state. The one i-gate in Colorado was in Monument, just south of the palmer divide, a high region that seals off Denver from the south of the state. And to get into the Monument i-gate, it was a trick shot from the Walsenburg digipeater about 200 miles south of the balloon, then back north to the i-gate, about 80 miles north of the digi. For the record, this was flown with the old-school 'WIDE', in the future I'll probably opt for WIDE2-1 or even WIDE2-2. For those of you who haven't kept up, 'new paradigm paths' are underfoot. If I understand correctly WIDE1-1 is the same as RELAY used to be and WIDE2-1 is not the same thing as WIDE1-1.

Anywhooo, airborne paths discussion attracts plenty of opinions and a lesser amount of knowledge. I've had plenty of hams tell me that beaconning on 144.39

either won't work or is just so darn impactful that it
is inconsiderate to do so. My experience is that it
does work, it can work well, and I've *never* gotten
complaints from anyone who actually recieved the
signal, but I have recieved some 'hate mail' from
people theorizing about how overloaded their metro
area aprs network would be when my rock crushing 200mW
beacon sends out once a minute position reports on
144.39 from 300 miles away. Counter to the above
position, I get as much 'fan mail' from hams that say
"high altitude balloon flights are amongst the coolest
application of APRS. PLEASE beacon on 144.39 so as to
share the event with hams from far off."

I'd be very interested to hear who's using what
paths and how well they work and if any area was so
clobbered by it that they sent complaints to the
balloon-flier.

best regards,

- KMC ng0x Denver

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1258. Balloons on 144.39

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 19:22:34 UTC
From: n9xtn@cox.net
Topic: 1258 Message: 1258

Since NSTAR has taken to running two beacons, we get the best of both worlds. Our backup beacon (before it left formation prematurely on its last flight) was once a minute on 144.39 with a path of WIDE2-1. The main beacon was on 144.34 and we TX as much as we want to.

Another advantage of using non-144.39 channels is the opportunity to do digipeating via a balloon. We've flown a KPC-3 on 144.34 on several flights and we were able to communicate with distant chase teams by APRS messaging. Having a balloon digi on 144.39 won't work very well because it will hear everything in up to a 400-mi radius.

73 de Mark N9XTN

1259. Re: [GPSL] Balloons on 144.39

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 19:27:40 UTC
From: Bob Bailey
Topic: 1258 Message: 1259

So continue on a frequency that the minimum can appreciate make sense to me!

n9xtn@... wrote:Since NSTAR has taken to running two beacons, we get the best of both worlds. Our backup beacon (before it left formation prematurely on its last flight) was once a minute on 144.39 with a path of WIDE2-1. The main beacon was on 144.34 and we TX as much as we want to.

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73 de Mark N9XTN

Yahoo! Groups Links

To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1260. Re: [GPSL] Balloons and helium

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 21:50:01 UTC
From: PAUL VERHAGE
Topic: 1241 Message: 1260

I'll need a tank and a half. Is someone planning to have half a tank left over?

Paul

>>> n9xtn@... 05/26/05 7:28 AM >>>
WB8ELK and I will have spare balloons available at the launch site should
someone need one. The "launch day markup" won't be too exorbitant..
:-).

I have not yet checked to see if we can get a discount for helium. I've been told some lucky people can get it for $35 per T-tank.

73 de Mark N9XTN

1261. Univ. of Tennessee balloon launch in ARRL Letter

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-03 23:50:44 UTC
From: Mark Conner
Topic: 1261 Message: 1261

From today's edition of the ARRL Letter:

* University students' first Amateur Radio balloon mission a success:

Members of the University of Tennessee Amateur Radio Club (AA4UT) launched their first balloon carrying Amateur Radio equipment on May 14. The team used APRS to track the balloon--designated UX-1--which had ATV equipment on board to provide a video feed back to Earth. The balloon reached an estimated altitude of approximately 52,000 feet (the GPS units would not read above 32,000 feet) and covered some 90 miles before bursting and descending by parachute. The balloon payload was recovered intact. Mike Coffey, KJ4Z, and Dan Bowen, K2VOL, were the prime movers behind the project. "This is an outstanding effort by young Amateur Radio operators in pursuit of their hobby," commented Tennessee Assistant Section Manager David Bower, K4PZT. Bower says the UT ham club has greatly benefited from the support of local radio amateurs dedicated to promoting Amateur Radio to younger licensees and prospective licensees. "Thanks to these local hams, they have an excellent HF amateur radio station at the University of Tennessee, including a tower and HF beam," Bower said. Another launch in the works for this weekend--June 4--may get media coverage by CNN. There's much more information, videos and photos on the UX-1 Web site <http://sunsite.utk.edu/~mcoffey/ux-1/>.

73 de Mark N9XTN

1262. Re: [GPSL] airborne paths... hate mail... fan mail....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-04 02:28:01 UTC
From: Mike Manes
Topic: 1255 Message: 1262

Folks,

If the balloon beacon is "deaf", e.g. the TinyTrak, then some of its beacons might capture a nearby discriminator over the din of terrestrial beacons heard at altitiude. However, if one is running a full TNC that abides AX.25 carrier sense collision avoidance, it's not likely to "get a beacon in edgewise".

This was EOSS's experience early on, and that's why we avoid 144.39.

Since the FAA is now relying on frequent I-gated position reports in order to avoid mid-airs, this issue has ramifications that go well beyond the enjoyment of the APRS community. Not to mention the importance
of keeping close tabs on payload position in descent in order to recover the student payloads that we carry up on most of our flights.

73 de Mike Manes, W5VSI
Prez EOSS

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1263. Frequency coordination forms

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-06 02:56:05 UTC
From: Mark Conner
Topic: 1263 Message: 1263
Attachments: 1 described; binary payloads are missing from this source WARC

I have frequency information for the following groups:

Traveler
MECSAT
KD4STH
ORB
CNNSP

Groups I still need forms for:

EOSS
HABITAT/SkyLab
Project HARPO
WB8ELK
Taylor Univ.

Attached is a form if you need it.

If you plan to fly and are not in either list, let me know. Also, my apologies if you sent me a form and I don't have you listed - I check e-mail on three different computers and I suppose that's asking to get things lost.

I hope to have helium prices and details by early next week. It will be a short turn to get payment in, but I'm hoping for a decent discount so hopefully it will be worth the wait.

73 de Mark N9XTN

1264. Re: [GPSL] Frequency coordination forms

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-06 03:10:54 UTC
From: Don KA0JLF
Topic: 1263 Message: 1264

Mark we had a planning meeting yesterday. I believe
Steve KA5YFC is handling this, for our group. I'm
afraid he has been out storm spotting (as well as
working special events over the weekend), but should
get it to you soon.

Our next meeting is scheduled for this coming Sunday.
I'm sure he will report back on getting this too you
before then. If not we'll get it to you ASAP.

Launch location was brough up a couple of times, any
update on that?

Please keep us updated on prices, etc.

Thanks,
Don
HABITAT SkyLab

--- Mark Conner <n9xtn@...> wrote:

> I have frequency information for the following
> groups:
>
> Traveler
> MECSAT
> KD4STH
> ORB
> CNNSP
>
> Groups I still need forms for:
>
> EOSS
> HABITAT/SkyLab
> Project HARPO
> WB8ELK
> Taylor Univ.
>
> Attached is a form if you need it.
>
> If you plan to fly and are not in either list, let
> me know. Also, my
> apologies if you sent me a form and I don't have you
> listed - I check e-mail
> on three different computers and I suppose that's
> asking to get things lost.

>
> I hope to have helium prices and details by early
> next week. It will be a
> short turn to get payment in, but I'm hoping for a
> decent discount so
> hopefully it will be worth the wait.
>
> 73 de Mark N9XTN
>
>

Discover Yahoo!
Get on-the-go sports scores, stock quotes, news and more. Check it out!
http://discover.yahoo.com/mobile.html

1265. GPSL repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-06 13:46:19 UTC
From: n9xtn@cox.net
Topic: 1265 Message: 1265

Some have been asking about repeaters for use at GPSL. I'm working with the owners of 2-3 repeaters (2 on 70cm, 1 on 2m) that should have good coverage for us (HT-accessible at the hotels and UNO). At least one of them will cover us for the drive to either launch site. Once I have secured permission to use them for the period, I'll post the details here and on the GPSL site (www.superlaunch.org).

In case we have severe weather, the local Skywarn repeater for Douglas County is 146.94-. If a Skywarn net is in progress, please don't call in for weather information but certainly report severe weather if you observe it (hail 3/4" or larger, winds >58 mph, funnel clouds or tornado, etc.).

73 de Mark N9XTN

1266. Repeaters/simplex use at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-07 16:29:37 UTC
From: n9xtn@cox.net
Topic: 1266 Message: 1266

I have secured permission from two repeater owners for use of their systems during GPSL 2005.

443.775+ is the main repeater I'd encourage everyone to use. This is the W0EQU repeater located on the KPTM 42 tower near Gretna. It has coverage on I-80 from several miles west of Lincoln, through Omaha, and to around mile marker 30 east into Iowa. It should be accessible by HTs at the hotels and at UNO. We have even used it with 5W HTs from Wahoo. I'm not sure of its coverage to Treynor.

145.115- is for those without UHF capability. It's located in an excellent site in Bellevue. It also has wide-area coverage and most likely is HT-accessible in both places.

Both repeaters do get some ARES use, but usually as backup repeaters. GPSL users should defer to any nets on these repeaters. If a situation comes up where either repeater is required full-time for ARES, we'll make other arrangements.

I will also provide information separately on a linked repeater system that covers the Omaha metro and western Iowa. This system would be used only for launch day if we use the Treynor launch site. We have secured permission to use the Treynor High School parking lot for a launch, and are still working on permission to use a site west of Omaha. Given the wind profiles in the summer, I would expect a 70% chance that we'd use Treynor.

I'm also proposing we use UHF simplex (446.500 MHz) at the launch site. This will prevent desense problems during VHF APRS payload checkout and allow group communication. I would encourage at least one person from each launch team to have an HT on this frequency so we can coordinate without running from group to group. Since we're hams, I suppose we should use our radios to talk to each other. I'm hoping to get Omaha-area volunteers to act as comm people for those groups who will be short-handed - it can be tough to have a balloon in one hand and a radio in the other.

This info will be posted to the GPSL site when I get a chance - it's easier for me to draft e-mails than update the site.

73 de Mark N9XTN

1267. Major updates to GPSL web page

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-08 00:39:33 UTC
From: Mark Conner
Topic: 1267 Message: 1267

The www.superlaunch.org web page has been substantially updated. We have received approval to use Treynor HS and Wahoo HS parking lots for our launches, so those sites are confirmed.

Many other details regarding Friday's events have also been added. A speaker list is being finalized and a full agenda should be available in the next few days. We have selected a Chinese buffet for Friday night's meal - the restaurant has a party room that will hold all of us and the food is good and fairly reasonable ($10.95 for all you can eat, and they usually have crab legs too).

On Thursday afternoon (June 30) an informal CubeSat meeting will be held at the EconoLodge near 109th and J in Omaha. Details on that are posted too. Any GPSLers in town that early are welcome to attend.

Thanks to Ralph Wallio W0RPK for working behind the scenes to make a lot of contacts and firming up our schedule. It's saved me a lot of time.

If you would like to see other information posted on the site, please let me know.

Frequency coordination is still being worked on, slowly. It's hard to do much thinking with a nearly-two-year-old running loose. I hope to devote substantial time to it this weekend and have at least a strawman up by Sunday.

73 de Mark N9XTN

1268. GPSL publicity in CQ VHF

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-08 02:15:52 UTC
From: Mark Conner
Topic: 1268 Message: 1268

Guess I spoke too soon about "no results" from earlier publicity e-mails.
CQ VHF apparently will have something in the upcoming issue.

http://www.cq-amateur-radio.com/AnnonJuly%2005.html

Great Plains Super Launch 2005 - The fifth annual GPSL will be held July 1-3
in Omaha, Nebraska. Hosted by the Nebraska Stratospheric Amateur Radio
group, GPSL 2005 will bring together Amateur Radio High Altitude Ballooning
groups to share information and participate in simultaneous flights. For
more information, see this month's "VHF Plus" column by N6CL, and also go
to: <http://www.superlaunch.org>. Questions may be directed to Mark Conner,
N9XTN, at <n9xtn@...>.

1269. EOSS freqs, GPSL '05

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-09 01:40:23 UTC
From: Mike Manes
Topic: 1269 Message: 1269
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mark,

The EOSS freq coordination form you requested is attached.

Note that there are some options; we will choose one that has the least impact on other flights per your recommendation.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1270. Re: EOSS freqs, GPSL '05

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-09 19:57:18 UTC
From: Mike Manes
Topic: 1269 Message: 1270

Hi MArk,

Well, we have options for one of 3 APRS modules:

1. the crossband is rockbound on 147.555 and runs a continuous carrier.

2. the AEOSS APRS module has a full KPC-3+ digi and can go anywhere 2m,
but can take a time slot on 144.34, if we plan on some EBBE.

3. One of our cutdowns, K0ANI-11, has APRS and DF, and can go on 2m or
70cm anhywhere - but it's just a beacon. If it doesn't go, then
we'll fly a DF/cutter w/o APRS on 145.600 if we also fly the cross
band, else it'll go on 147.555.

I can bring any or all of these out and config on site.

73 de Mike W5VSI

Mark Conner wrote:
>
> Hi Mike,
>
> If I understand your form correctly, you'd prefer to run 145.60 for your #1
> APRS downlink and 147.555 for APRS #2. That should be fine, as I don't
> think anyone else has plans for either. I'll double-check when I review all
> the forms over the weekend.
>
> Thanks for sending it in, and looking forward to seeing you next month.
>
> - Mark
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Wednesday, June 08, 2005 20:40
> To: Mark Conner N9XTN; GPSL Reflector
> Subject: EOSS freqs, GPSL '05
>
> Hi Mark,
>
> The EOSS freq coordination form you requested is attached.
>
> Note that there are some options; we will choose one that has the least
> impact on other flights per your recommendation.
>
> 73 de Mike W5VSI
> --
> Mike Manes manes@... Tel: 303-979-4899

> "Things should be made as simple as possible, but not more so." A.
> Einstein

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1271. Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-09 21:50:07 UTC
From: n9xtn@cox.net
Topic: 1271 Message: 1271

Some good news....we have been given a price of $35 per T tank for our helium. This is about half of list price. Thanks to Roger KC0MWM of CNNSP for making the phone calls for us to get this price.

The Linweld office in Omaha is in the middle of a move to a new building, and I don't want to bother them too much about getting a similar deal on K tanks. For people using just over a T tank (291 cu ft), we can see about shuffling a T bottle around for topping off. If you really really have to have K tanks, let me know by NLT Monday morning.

My plan is to have Linweld deliver the tanks to my house the Thursday or Friday before GPSL and pick up on the following Tuesday. This will probably incur a small charge, which I'll pro-rate out. I'll work that out with Linweld when I call them. On launch day, we'll have a pickup haul about half and a trailer for the other half.

Once I have firm $$ figures, an order form will be posted to the list with the pricing. We'll have everyone pay for the integer number of T tanks they'll need, and we'll handle spares and fractional tanks by cash or check on launch day. The form will ask for an approx. number of cubic feet you plan to use, so we can make the best use of the helium on hand and not open spare tanks if we don't have to.

Right now I have 8 balloons on the list as flying at GPSL:

NSTAR/CNNSP
EOSS
Traveler
HABITAT/SkyLab
WB8ELK
KD4STH
MECSAT
Taylor Univ.

73 de Mark N9XTN

1272. Time Slot Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 00:15:25 UTC
From: Zack Clobes
Topic: 1272 Message: 1272

We're preparing to do initial testing this weekend for the GPSL flight.
Have frequency/time slot assignments been made?

Zack Clobes, W0ZC
Project: Traveler

1273. Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 00:16:16 UTC
From: Zack Clobes
Topic: 1273 Message: 1273

We're trying to decide between ATV and a digital camcorder.

Zack Clobes, W0ZC
Project: Traveler

1274. Re: [GPSL] Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 00:18:34 UTC
From: Zack Clobes
Topic: 1271 Message: 1274

We would prefer a K tank, but can make do with a T. If someone needs a little extra gas, we'll have some for sale.. ;-)

Zack

n9xtn@... wrote:

>Some good news....we have been given a price of $35 per T tank for our helium. This is about half of list price. Thanks to Roger KC0MWM of CNNSP for making the phone calls for us to get this price.
>
>The Linweld office in Omaha is in the middle of a move to a new building, and I don't want to bother them too much about getting a similar deal on K tanks. For people using just over a T tank (291 cu ft), we can see about shuffling a T bottle around for topping off. If you really really have to have K tanks, let me know by NLT Monday morning.
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>
>NSTAR/CNNSP
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>HABITAT/SkyLab
>WB8ELK
>KD4STH
>MECSAT
>Taylor Univ.
>
>73 de Mark N9XTN
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>Yahoo! Groups Links
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1275. RE: [GPSL] Time Slot Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 00:45:46 UTC
From: Mark Conner
Topic: 1272 Message: 1275

Hi Zack,

I have not yet made assignments - I expect to have that done this weekend. I can just mark you down for 0-9 seconds on 144.34 if you'd like something to program against.

I'm not sure yet we can get everyone's main payload on 144.34. More than likely we'll split main payloads onto 144.34 and 144.36 and give everyone a 15-sec time slot. But just in case we can get it down to 6 payloads, I'll give you a 10-sec slot.

We have 3 tentative 70cm ATV payloads - WB8ELK, EOSS, and HABITAT/SkyLab.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Thursday, June 09, 2005 19:15
To: Group GPSL
Subject: [GPSL] Time Slot Assignments

We're preparing to do initial testing this weekend for the GPSL flight. Have frequency/time slot assignments been made?

Zack Clobes, W0ZC
Project: Traveler

1276. Re: [GPSL] Time Slot Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 00:56:54 UTC
From: Zack Clobes
Topic: 1272 Message: 1276

We'll take the 00 timeslot on 34 and plan on NOT flying ATV.

Is the 144.39 frequency going to be a free-for-all for backup beacons?

Mark Conner wrote:

>Hi Zack,
>
>I have not yet made assignments - I expect to have that done this weekend.
>I can just mark you down for 0-9 seconds on 144.34 if you'd like something
>to program against.
>
>I'm not sure yet we can get everyone's main payload on 144.34. More than
>likely we'll split main payloads onto 144.34 and 144.36 and give everyone a
>15-sec time slot. But just in case we can get it down to 6 payloads, I'll
>give you a 10-sec slot.
>
>We have 3 tentative 70cm ATV payloads - WB8ELK, EOSS, and HABITAT/SkyLab.
>
>
>- Mark
>
>
>
>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack
>Clobes
>Sent: Thursday, June 09, 2005 19:15
>To: Group GPSL
>Subject: [GPSL] Time Slot Assignments
>
>We're preparing to do initial testing this weekend for the GPSL flight.
>Have frequency/time slot assignments been made?
>
>Zack Clobes, W0ZC
>Project: Traveler
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>Yahoo! Groups Links
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1277. Re: [GPSL] Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 01:38:41 UTC
From: wb8elk@aol.com
Topic: 1273 Message: 1277

I'm planning on flying ATV...but I can go onto any of the following 70cm frequencies: 439.25, 434.00, 427.25 or 426.25.

- Bill WB8ELK

1278. Re: ATV

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 02:15:42 UTC
From: shermane2001
Topic: 1278 Message: 1278

MECSAT is tentatively planning to fly ATV on 439.25. We've only done one trial run and want a shot with experienced ATV'ers (i.e. EOSS, etc.) around.

1279. RE: [GPSL] Time Slot Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 02:30:10 UTC
From: Mark Conner
Topic: 1272 Message: 1279

We'll try to arrange once-per-minute slots on .39 as well to minimize collisions between airborne payloads. If you go with something early in the minute on .39 also (say 00-05), I'll schedule the others in subsequent slots.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Thursday, June 09, 2005 19:57
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Time Slot Assignments

We'll take the 00 timeslot on 34 and plan on NOT flying ATV.

Is the 144.39 frequency going to be a free-for-all for backup beacons?

Mark Conner wrote:

>Hi Zack,
>
>I have not yet made assignments - I expect to have that done this weekend.
>I can just mark you down for 0-9 seconds on 144.34 if you'd like
>something to program against.
>
>I'm not sure yet we can get everyone's main payload on 144.34. More
>than likely we'll split main payloads onto 144.34 and 144.36 and give
>everyone a 15-sec time slot. But just in case we can get it down to 6
>payloads, I'll give you a 10-sec slot.
>
>We have 3 tentative 70cm ATV payloads - WB8ELK, EOSS, and HABITAT/SkyLab.
>
>
>- Mark
>
>
>
>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
>Zack Clobes
>Sent: Thursday, June 09, 2005 19:15
>To: Group GPSL
>Subject: [GPSL] Time Slot Assignments
>
>We're preparing to do initial testing this weekend for the GPSL flight.

>Have frequency/time slot assignments been made?
>
>Zack Clobes, W0ZC
>Project: Traveler
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Yahoo! Groups Links

1280. Re: [GPSL] Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 02:48:43 UTC
From: Don KA0JLF
Topic: 1273 Message: 1280

We plan to fly ATV but only have 439.25 rocks.

Don KA0JLF

--- wb8elk@... wrote:

> I'm planning on flying ATV...but I can go onto any
> of the following 70cm
> frequencies: 439.25, 434.00, 427.25 or 426.25.
>
> - Bill WB8ELK

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1281. Re: [GPSL] Re: ATV

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 02:52:13 UTC
From: Don KA0JLF
Topic: 1278 Message: 1281

How much power does your ATV put out? Is your antenna
vertical or horiz.?

We only have 90mw and a 1/2 w dipole vertical. We are
rock bound on 439.25.

73
Don KA0JLF

--- shermane2001 <shermane@...> wrote:

> MECSAT is tentatively planning to fly ATV on 439.25.
> We've only done
> one trial run and want a shot with experienced
> ATV'ers (i.e. EOSS,
> etc.) around.

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http://discover.yahoo.com/

1282. Re: ATV

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 03:50:34 UTC
From: shermane2001
Topic: 1278 Message: 1282

The antenna is horiz and we have a 1w transmitter. We're set up for
439.25 but could do 434.

--- In GPSL@yahoogroups.com, Don KA0JLF <ka0jlf@a...> wrote:
> How much power does your ATV put out? Is your antenna
> vertical or horiz.?
>
> We only have 90mw and a 1/2 w dipole vertical. We are
> rock bound on 439.25.
>
> 73
> Don KA0JLF
>
> --- shermane2001 <shermane@v...> wrote:
>
> > MECSAT is tentatively planning to fly ATV on 439.25.
> > We've only done
> > one trial run and want a shot with experienced
> > ATV'ers (i.e. EOSS,
> > etc.) around.
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> http://discover.yahoo.com/

1283. Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 03:52:54 UTC
From: shermane2001
Topic: 1273 Message: 1283

Actually, we can do any of those frequencies also.

-Shermane, MECSAT

-- In GPSL@yahoogroups.com, wb8elk@a... wrote:
> I'm planning on flying ATV...but I can go onto any of the following
70cm
> frequencies: 439.25, 434.00, 427.25 or 426.25.
>
> - Bill WB8ELK

1284. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 04:39:43 UTC
From: wb8elk@aol.com
Topic: 1273 Message: 1284

I can plan on doing 426.25 MHz....I'll be running about 3 watts and will be horizontal.

- Bill WB8ELK

1285. Camping for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 14:57:30 UTC
From: n9xtn@cox.net
Topic: 1285 Message: 1285

http://www.ngpc.state.ne.us/parks/guides/parksearch/getregion.asp?District=5

There are several state parks that are suitable campgrounds for tent or RV camping. The best is Mahoney State Park about halfway between Omaha and Lincoln, but tends to be busy on holiday weekends. Platte River State Park, Louisville State Rec Area, and Two Rivers SP are other area choices.

Best to reserve your camping spot early to guarantee availability.

73 de Mark N9XTN

1286. helium price

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 15:34:03 UTC
From: K. Mark Caviezel
Topic: 1286 Message: 1286

> Subject: Helium pricing
>
> Some good news....we have been given a price of $35
> per T tank for our helium. This is about half of
> list price. Thanks to Roger KC0MWM of CNNSP for
> making the phone calls for us to get this price.

Mark, Roger: wow, that's great news! Glad to see all of you all will be getting a competitive price on helium, I always hate to see the gouge prices some groups normally pay.

- KMC ng0x "ES-OS" Denver (not currently planning on attending GPSL this year, but will be with you guys in spirit).

1287. Re: [GPSL] Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 15:43:07 UTC
From: Mike Manes
Topic: 1273 Message: 1287

Hi Zack,

EOSS plans to fly the de-spun ATV on 426.25 MHz at GPSL '05 - 1 W DSB AM
to horiz polarized little wheel.

73 de Mike W5VSI

Zack Clobes wrote:
>
> We're trying to decide between ATV and a digital camcorder.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1288. Re: [GPSL] Re: ATV

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 15:58:03 UTC
From: Mike Manes
Topic: 1278 Message: 1288

I think the only two DSB AM ATV freqs we can use w/o QRM are 426.25 and
439.25. With a 12 MHz bandwidth, 434 MHz will QRM both of those.

Cross-polarization might help, however.

73 de Mike W5VSI

shermane2001 wrote:
>
> The antenna is horiz and we have a 1w transmitter. We're set up for
> 439.25 but could do 434.
>
> --- In GPSL@yahoogroups.com, Don KA0JLF <ka0jlf@a...> wrote:
> > How much power does your ATV put out? Is your antenna
> > vertical or horiz.?
> >
> > We only have 90mw and a 1/2 w dipole vertical. We are
> > rock bound on 439.25.
> >
> > 73
> > Don KA0JLF
> >
> > --- shermane2001 <shermane@v...> wrote:
> >
> > > MECSAT is tentatively planning to fly ATV on 439.25.
> > > We've only done
> > > one trial run and want a shot with experienced
> > > ATV'ers (i.e. EOSS,
> > > etc.) around.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1289. Re: [GPSL] Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 15:48:58 UTC
From: Mike Manes
Topic: 1271 Message: 1289

Hi Mark,

EOSS will need about 300 cuft for it's balloon, plus 10 or 20 more for pibals. In case things go sour with the fill, a spare balloon will be on hand, and we'd like to have another 300 cuft available to fill it. I assume you can get credit for an uncracked bottle?

73 de Mike W5VSI

n9xtn@... wrote:
>
> Some good news....we have been given a price of $35 per T tank for our helium. This is about half of list price. Thanks to Roger KC0MWM of CNNSP for making the phone calls for us to get this price.
>
> The Linweld office in Omaha is in the middle of a move to a new building, and I don't want to bother them too much about getting a similar deal on K tanks. For people using just over a T tank (291 cu ft), we can see about shuffling a T bottle around for topping off. If you really really have to have K tanks, let me know by NLT Monday morning.
>
> My plan is to have Linweld deliver the tanks to my house the Thursday or Friday before GPSL and pick up on the following Tuesday. This will probably incur a small charge, which I'll pro-rate out. I'll work that out with Linweld when I call them. On launch day, we'll have a pickup haul about half and a trailer for the other half.
>
> Once I have firm $$ figures, an order form will be posted to the list with the pricing. We'll have everyone pay for the integer number of T tanks they'll need, and we'll handle spares and fractional tanks by cash or check on launch day. The form will ask for an approx. number of cubic feet you plan to use, so we can make the best use of the helium on hand and not open spare tanks if we don't have to.
>
> Right now I have 8 balloons on the list as flying at GPSL:
>
> NSTAR/CNNSP
> EOSS
> Traveler
> HABITAT/SkyLab
> WB8ELK
> KD4STH
> MECSAT
> Taylor Univ.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1290. Re: [GPSL] Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 17:10:37 UTC
From: n9xtn@cox.net
Topic: 1271 Message: 1290

I'm also assuming we can get refunds for an uncracked bottle. I will find out for sure on Monday. I plan to have 2-3 spare T bottles on hand in case we have any premature bursts or launches.

Anyone else who'd like to send me the approx. # of cu ft you'll be using, please do so. I believe CNNSP/NSTAR will use at or just short of 1 T bottle.

- Mark

----- Original Message -----
From: Mike Manes <manes@...>
Date: Friday, June 10, 2005 10:48 am
Subject: Re: [GPSL] Helium pricing

> Hi Mark,
>
> EOSS will need about 300 cuft for it's balloon, plus 10 or 20 more for
> pibals. In case things go sour with the fill, a spare balloon will
> be on
> hand, and we'd like to have another 300 cuft available to fill it.
> I
> assume you can get credit for an uncracked bottle?
>
> 73 de Mike W5VSI
>

1291. Re: [GPSL] Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 17:21:51 UTC
From: Zack Clobes
Topic: 1271 Message: 1291

240cu' for PT.

n9xtn@... wrote:

>I'm also assuming we can get refunds for an uncracked bottle. I will find out for sure on Monday. I plan to have 2-3 spare T bottles on hand in case we have any premature bursts or launches.
>
>Anyone else who'd like to send me the approx. # of cu ft you'll be using, please do so. I believe CNNSP/NSTAR will use at or just short of 1 T bottle.
>
>- Mark
>
>
>----- Original Message -----
>From: Mike Manes <manes@...>
>Date: Friday, June 10, 2005 10:48 am
>Subject: Re: [GPSL] Helium pricing
>
>
>
>>Hi Mark,
>>
>>EOSS will need about 300 cuft for it's balloon, plus 10 or 20 more for
>>pibals. In case things go sour with the fill, a spare balloon will
>>be on
>>hand, and we'd like to have another 300 cuft available to fill it.
>>I
>>assume you can get credit for an uncracked bottle?
>>
>>73 de Mike W5VSI
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1292. Harry KC5TRB/ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 18:01:45 UTC
From: n9xtn@cox.net
Topic: 1292 Message: 1292

Harry KC5TRB - can you let me know ORB's status regarding GPSL participation?

- Mark

1293. Re: [GPSL] Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 19:24:03 UTC
From: Don KA0JLF
Topic: 1271 Message: 1293

Mark, we would like at least 1 full T tank, possibly
two. We were planning on bringing two but your price
is too good for us to mess with BYOB. ;-)

73
Don

--- Zack Clobes <zclobes@...> wrote:

> 240cu' for PT.
>
> n9xtn@... wrote:
>
> >I'm also assuming we can get refunds for an
> uncracked bottle. I will find out for sure on
> Monday. I plan to have 2-3 spare T bottles on hand
> in case we have any premature bursts or launches.
> >
> >Anyone else who'd like to send me the approx. # of
> cu ft you'll be using, please do so. I believe
> CNNSP/NSTAR will use at or just short of 1 T bottle.
> >
> >- Mark
> >
> >
> >----- Original Message -----
> >From: Mike Manes <manes@...>
> >Date: Friday, June 10, 2005 10:48 am
> >Subject: Re: [GPSL] Helium pricing
> >
> >
> >
> >>Hi Mark,
> >>
> >>EOSS will need about 300 cuft for it's balloon,
> plus 10 or 20 more for
> >>pibals. In case things go sour with the fill, a
> spare balloon will
> >>be on
> >>hand, and we'd like to have another 300 cuft
> available to fill it.
> >>I
> >>assume you can get credit for an uncracked bottle?
> >>
> >>73 de Mike W5VSI
> >>

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1294. Re: [GPSL] Re: ATV

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-10 19:25:51 UTC
From: Don KA0JLF
Topic: 1278 Message: 1294

With our low power, and normal seperation of balloons,
and being the opposite polarity, I don't think we
should interfer with anyone. ;-)

Don

--- Mike Manes <manes@...> wrote:

> I think the only two DSB AM ATV freqs we can use w/o
> QRM are 426.25 and
> 439.25. With a 12 MHz bandwidth, 434 MHz will QRM
> both of those.
>
> Cross-polarization might help, however.
>
> 73 de Mike W5VSI
>
> shermane2001 wrote:
> >
> > The antenna is horiz and we have a 1w transmitter.
> We're set up for
> > 439.25 but could do 434.
> >
> > --- In GPSL@yahoogroups.com, Don KA0JLF
> <ka0jlf@a...> wrote:
> > > How much power does your ATV put out? Is your
> antenna
> > > vertical or horiz.?
> > >
> > > We only have 90mw and a 1/2 w dipole vertical.
> We are
> > > rock bound on 439.25.
> > >
> > > 73
> > > Don KA0JLF
> > >
> > > --- shermane2001 <shermane@v...> wrote:
> > >
> > > > MECSAT is tentatively planning to fly ATV on
> 439.25.
> > > > We've only done
> > > > one trial run and want a shot with experienced
> > > > ATV'ers (i.e. EOSS,
> > > > etc.) around.
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> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
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> GPSL-unsubscribe@yahoogroups.com
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1295. Anyone from Taylor Univ. on list?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 14:16:35 UTC
From: Mark Conner
Topic: 1295 Message: 1295

Can someone from Taylor Univ. e-mail me at n9xtn@... ASAP regarding the payloads you plan to fly at GPSL? I want to make sure the frequencies and time slots we'll give you are compatible with your payloads.

73 de Mark N9XTN

1296. ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 19:13:06 UTC
From: Mark Conner
Topic: 1296 Message: 1296

I have five groups wishing to fly ATV at GPSL:

EOSS: Rock-bound on 426.25

HABITAT/SkyLab: Rock-bound on 439.25 (90 mW)

MECSAT: 426.25 or 434.00 or 439.25 (1W)

WB8ELK: 426.25 or 434.00 or 439.25 (1W)

Traveler: Capability unknown

First, has anyone decided not to fly ATV? Second, I'm open to ideas on how to resolve who flies what. I'm not familiar with ATV, so I don't know how much coexistence can be had with cross-polarization and frequency separation.

Time slots to be out shortly.

73 de Mark N9XTN

1297. Re: [GPSL] ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 19:20:22 UTC
From: Zack Clobes
Topic: 1296 Message: 1297

Count Traveler out - not a big deal to us.

Mark Conner wrote:

> I have five groups wishing to fly ATV at GPSL:
>
>
>
> EOSS: Rock-bound on 426.25
>
> HABITAT/SkyLab: Rock-bound on 439.25 (90 mW)
>
> MECSAT: 426.25 or 434.00 or 439.25 (1W)
>
> WB8ELK: 426.25 or 434.00 or 439.25 (1W)
>
> Traveler: Capability unknown
>
>
>
> First, has anyone decided *not* to fly ATV? Second, I'm open to ideas
> on how to resolve who flies what. I'm not familiar with ATV, so I
> don't know how much coexistence can be had with cross-polarization and
> frequency separation.
>
>
>
> Time slots to be out shortly.
>
>
>
> 73 de Mark N9XTN
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>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/

>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>

1298. Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 20:06:56 UTC
From: Mark Conner
Topic: 1298 Message: 1298

http://www.superlaunch.org/frequencies.html

Please check your assigments and let me know of any problems. The slotting is provisional, so don't take these as gospel just yet.

Bill WB8ELK - would you like two of your beacons on 144.36? That may help you track two flights simultaneously. Most everyone is flexible between .34 and .36.

I did not put in ATV yet, pending resolution of who will be flying what.

For EOSS (hope your flight(s) went well, BTW) - with the number of slots dwindling and your interest in perhaps using 145.60 and 147.555 with APRS, do you want a time slot on 144.34 or 144.36? You're wide-open on the other frequencies. If you'd like a 144.34/144.36 slot, we'll reduce to 10-sec slots.

Harry KC5TRB - are you flying at GPSL? If not, that will free one of the other slots.

Don KA0JLF - I put you down for 147.585 SSTV - NSTAR has used this before. You can choose another open frequency if you wish.

73 de Mark N9XTN

1299. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 21:22:48 UTC
From: Don KA0JLF
Topic: 1298 Message: 1299

Thanks Mark, I just got word from our receive station
that will put them on the web real time at
http://www.fmsstv.net He too said we should stay with
that freq.

That is what we have used in the past too, so it is
well known. ;-)

73
Don

--- Mark Conner <n9xtn@...> wrote:

> Don KA0JLF - I put you down for 147.585 SSTV - NSTAR
> has used this before.
> You can choose another open frequency if you wish.
>
> 73 de Mark N9XTN
>
>

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http://mobile.yahoo.com/learn/mail

1300. Re: [GPSL] ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 21:34:19 UTC
From: Don KA0JLF
Topic: 1296 Message: 1300

We don't HAVE to fly ATV either, but we are still hoping to get a successful ATV flight in. In the past something has always happened, power drops out, camera shuts off, something.

Those of you with experience, correct me if I'm wrong, but:

I don't expect much from our ATV except near take off and landing. With our low power, and opposite polarity of antenna, and separation of balloons (probably by a few miles as in the past) I don't think we should cause interference with someone else. Except at launch. So we can go either way, whatever is best for the group.

We are mainly interested in the DVC anyway, so that can fly with or without ATV.

I guess it is possible, for us to turn the xmiter on and off, a pseudo time slot. ;-)

Don

--- Zack Clobes <zclobes@...> wrote:

> Count Traveler out - not a big deal to us.
>
> Mark Conner wrote:
>
> > I have five groups wishing to fly ATV at GPSL:
> >
> >
> >
> > EOSS: Rock-bound on 426.25
> >
> > HABITAT/SkyLab: Rock-bound on 439.25 (90 mW)
> >
> > MECSAT: 426.25 or 434.00 or 439.25 (1W)
> >
> > WB8ELK: 426.25 or 434.00 or 439.25 (1W)
> >
> > Traveler: Capability unknown
> >
> >
> >
> > First, has anyone decided *not* to fly ATV?

> Second, I'm open to ideas
> > on how to resolve who flies what. I'm not
> familiar with ATV, so I
> > don't know how much coexistence can be had with
> cross-polarization and
> > frequency separation.
> >
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> >
> > Time slots to be out shortly.
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> >
> > 73 de Mark N9XTN
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> > *Yahoo! Groups Links*
> >
> > * To visit your group on the web, go to:
> > http://groups.yahoo.com/group/GPSL/
> >
> > * To unsubscribe from this group, send an
> email to:
> > GPSL-unsubscribe@yahoogroups.com
> >
>
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
>

_____
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http://discover.yahoo.com/online.html

1301. Re: ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 22:03:42 UTC
From: shermane2001
Topic: 1296 Message: 1301

I guess we're in the same boat as KA0JLF. We don't really HAVE to fly ATV either. Our first trial was pretty much what he described - near take off and we were hoping for better results this time around. However, to help with the deconfliction, MECSAT will withdraw and check out what other ATVers are doing at the launch.

--- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
> I have five groups wishing to fly ATV at GPSL:
>
>
>
> EOSS: Rock-bound on 426.25
>
> HABITAT/SkyLab: Rock-bound on 439.25 (90 mW)
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> MECSAT: 426.25 or 434.00 or 439.25 (1W)
>
> WB8ELK: 426.25 or 434.00 or 439.25 (1W)
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> Traveler: Capability unknown
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> First, has anyone decided not to fly ATV? Second, I'm open to ideas on how
> to resolve who flies what. I'm not familiar with ATV, so I don't know how
> much coexistence can be had with cross-polarization and frequency
> separation.
>
>
>
> Time slots to be out shortly.
>
>
>
> 73 de Mark N9XTN

1302. Re: [GPSL] Re: ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-11 23:50:54 UTC
From: Gene Harlan
Topic: 1296 Message: 1302

Keep the ATV. We will be watching for it from the Northern Illinois area.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

----- Original Message -----
From: "shermane2001" <shermane@...>
To: <GPSL@yahoogroups.com>
Sent: Saturday, June 11, 2005 5:03 PM
Subject: [GPSL] Re: ATV deconfliction

I guess we're in the same boat as KA0JLF. We don't really HAVE to fly
ATV either. Our first trial was pretty much what he described - near
take off and we were hoping for better results this time around.
However, to help with the deconfliction, MECSAT will withdraw and
check out what other ATVers are doing at the launch.

--- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
> I have five groups wishing to fly ATV at GPSL:
>
>
>
> EOSS: Rock-bound on 426.25
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> HABITAT/SkyLab: Rock-bound on 439.25 (90 mW)
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> MECSAT: 426.25 or 434.00 or 439.25 (1W)
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> WB8ELK: 426.25 or 434.00 or 439.25 (1W)
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> First, has anyone decided not to fly ATV? Second, I'm open to ideas
on how
> to resolve who flies what. I'm not familiar with ATV, so I don't
know how
> much coexistence can be had with cross-polarization and frequency
> separation.
>

>
>
> Time slots to be out shortly.
>
>
>
> 73 de Mark N9XTN

Yahoo! Groups Links

1303. low power ATV performance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-12 02:47:50 UTC
From: wb8elk@aol.com
Topic: 1303 Message: 1303

Don,

We had experience with 100 milliwatts on ATV last Fall....the students didn't tune up the 1 W transmitter and it flew with 0.1 W instead.....we only received video out to about 10 miles away on the way up with a beam at the ground station...the video signal faded at 20,000 feet.. and we only started to receive the video from 3 miles away on landing from the mobile.

With 1W to a Little Wheel on the payload and an M2 square HALO (HO432 LOOP) on the mobile (with ARR preamp and Icom R-3)....I received color throughout the last flight from my mobile (although it was snowy at peak altitude).....we typically see P2 to P3 signal reports out to 300 miles or so at altitude with this setup if the receiving station has a decent antenna and preamp.

73s de Bill WB8ELK

1304. Re: [GPSL] Re: ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-12 03:00:46 UTC
From: wb8elk@aol.com
Topic: 1296 Message: 1304

If I can resurrect my HATS 1255 MHz FM ATV transmitter I can do that instead....otherwise I can remotely turn mine off and on if there's interference if I run on 434 MHz. I'll do a terrestrial test running multiple transmitters at the same time on 439.25, 434 or 426.25 and see how it works from 20 miles away....there's over a MHz further seperation between 426.25 and 434 MHz than between 434 and 439.25 since the actual cable channel frequencies are 433.25 and 427.25 MHz....so the interference to 426.25 won't be so bad I think....but 434 would probably put interference into a signal on 439.25 although the polarization difference isolation may do the trick here.

73s de Bill WB8ELK

1305. RE: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-12 04:25:58 UTC
From: Rochte, Robert
Topic: 1298 Message: 1305

If I am able to get a solar Montgolfiere in the air, we'll need a slot on .39 due to the long duration (and possible distance) of the flight.

73,
Robert
KC8UCH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Mark Conner
Sent: Saturday, June 11, 2005 4:07 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Time slot and frequency assignments available

http://www.superlaunch.org/frequencies.html
<http://www.superlaunch.org/frequencies.html>

Please check your assigments and let me know of any problems. The slotting is provisional, so don't take these as gospel just yet.

Bill WB8ELK - would you like two of your beacons on 144.36? That may help you track two flights simultaneously. Most everyone is flexible between .34 and .36.

I did not put in ATV yet, pending resolution of who will be flying what.

For EOSS (hope your flight(s) went well, BTW) - with the number of slots dwindling and your interest in perhaps using 145.60 and 147.555 with APRS, do you want a time slot on 144.34 or 144.36? You're wide-open on the other frequencies. If you'd like a 144.34/144.36 slot, we'll reduce to 10-sec slots.

Harry KC5TRB - are you flying at GPSL? If not, that will free one of the other slots.

Don KA0JLF - I put you down for 147.585 SSTV - NSTAR has used this before. You can choose another open frequency if you wish.

73 de Mark N9XTN

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/ <http://groups.yahoo.com/group/GPSL/>

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

1306. RE: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-12 17:16:19 UTC
From: Mark Conner
Topic: 1298 Message: 1306

Given the demand for slots, I'll rework the tables into 10-sec slots. The existing slots will be 0-49 by 10s and the new ones will be 50-59 on all 3 freqs.

- Mark

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Rochte, Robert
Sent: Saturday, June 11, 2005 23:26
To: 'GPSL@yahoogroups.com'
Subject: RE: [GPSL] Time slot and frequency assignments available

If I am able to get a solar Montgolfiere in the air, we'll need a slot on .39 due to the long duration (and possible distance) of the flight.

73,

Robert

KC8UCH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Mark Conner
Sent: Saturday, June 11, 2005 4:07 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Time slot and frequency assignments available

http://www.superlaunch.org/frequencies.html

Please check your assigments and let me know of any problems. The slotting is provisional, so don't take these as gospel just yet.

Bill WB8ELK - would you like two of your beacons on 144.36? That may help you track two flights simultaneously. Most everyone is flexible between .34 and .36.

I did not put in ATV yet, pending resolution of who will be flying what.

For EOSS (hope your flight(s) went well, BTW) - with the number of slots dwindling and your interest in perhaps using 145.60 and 147.555 with APRS, do you want a time slot on 144.34 or 144.36? You're wide-open on the other frequencies. If you'd like a 144.34/144.36 slot, we'll reduce to 10-sec slots.

Harry KC5TRB - are you flying at GPSL? If not, that will free one of the other slots.

Don KA0JLF - I put you down for 147.585 SSTV - NSTAR has used this before. You can choose another open frequency if you wish.

73 de Mark N9XTN

Yahoo! Groups Links

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* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

1307. New APRS time slot table posted

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-12 19:34:44 UTC
From: Mark Conner
Topic: 1307 Message: 1307

http://www.nstar.org/GPSL2005/frequencies.html

I have placed KC8UCH-11 on a 144.39 slot and AE0SS-11 on a 144.36 slot.
This will leave us one open slot on 144.34.

73 de Mark N9XTN

1308. Re: [GPSL] Re: ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-13 12:39:44 UTC
From: Don KA0JLF
Topic: 1296 Message: 1308

NO! (sorry about that) don't give up. It has been my experience (probably all of ours) things have a way of working themselfs out. STuff happens, if all of us are prepared for ATV, then last minute issues won't prevent someone from flying the ATV.

This can be a last minute decision, and I'm willing to accomodate others. So PLEASE let's not shot ourselfs in the foot before we get our shoes on. ;-) What the heck does that mean? ;-) Sorry it just came out of the fingers. Humor intended but may not be there. ;-)

73
Don

--- shermane2001 <shermane@...> wrote:

> I guess we're in the same boat as KA0JLF. We don't
> really HAVE to fly
> ATV either. Our first trial was pretty much what he
> described - near
> take off and we were hoping for better results this
> time around.
> However, to help with the deconfliction, MECSAT will
> withdraw and
> check out what other ATVers are doing at the launch.
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> --- In GPSL@yahoogroups.com, "Mark Conner"
> <n9xtn@c...> wrote:
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> >
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> >
> > WB8ELK: 426.25 or 434.00 or 439.25 (1W)
> >
> > Traveler: Capability unknown
> >
> >
> >
> > First, has anyone decided not to fly ATV? Second,

> I'm open to ideas
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> cross-polarization and frequency
> > separation.
> >
> >
> >
> > Time slots to be out shortly.
> >
> >
> >
> > 73 de Mark N9XTN
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> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
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http://discover.yahoo.com/online.html

1309. Re: ATV deconfliction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-13 13:04:16 UTC
From: shermane2001
Topic: 1296 Message: 1309

Thanks Gene and also KA0JLF for the encouragement. MECSAT will go
ahead with ATV.

--- In GPSL@yahoogroups.com, "Gene Harlan" <atvq@h...> wrote:
> Keep the ATV. We will be watching for it from the Northern Illinois
area.
>
> Gene Harlan - WB9MMM
> Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> http://www.hampubs.com
> atvq@h...
> 815-398-2683 - voice
> 815-398-2688 - fax
>
> ----- Original Message -----
> From: "shermane2001" <shermane@v...>
> To: <GPSL@yahoogroups.com>
> Sent: Saturday, June 11, 2005 5:03 PM
> Subject: [GPSL] Re: ATV deconfliction
>
>
> I guess we're in the same boat as KA0JLF. We don't really HAVE to fly
> ATV either. Our first trial was pretty much what he described - near
> take off and we were hoping for better results this time around.
> However, to help with the deconfliction, MECSAT will withdraw and
> check out what other ATVers are doing at the launch.
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> --- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
> > I have five groups wishing to fly ATV at GPSL:
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> > EOSS: Rock-bound on 426.25
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> > First, has anyone decided not to fly ATV? Second, I'm open to ideas
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> > separation.
> >
> >
> >
> > Time slots to be out shortly.
> >
> >
> >
> > 73 de Mark N9XTN
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>
>
> Yahoo! Groups Links

1310. Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-13 16:36:20 UTC
From: n9xtn@cox.net
Topic: 1310 Message: 1310

Everyone,

In order to make sure the UNO food court and the China One buffet are prepared to host us for lunch and dinner on Friday, we need to provide firmer attendance numbers than we have at the moment. Below is the latest we have. If your group has changes, or is not listed, please let me know your expected numbers.

Group Lunch/Dinner

CAP-N-SPACE: ?/?
CNNSP: 5/5
EOSS: 13/13
GPA: 2/2
HABITAT: ?/?
MECSAT: ?/?
ORB: ?/?
Traveler: 1/?
Taylor Univ: ?/?
KD4STH: 1/1
WB8ELK: 1/1
Iowa State ?/?
KU ?/?

For NSTAR, let me know if you plan to attend the conference (with lunch) and/or the Friday night dinner.

73 de Mark N9XTN

1311. Place your GPSL helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-13 19:39:07 UTC
From: n9xtn@cox.net
Topic: 1311 Message: 1311
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1312. Re: [GPSL] Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-13 21:43:44 UTC
From: Zack Clobes
Topic: 1310 Message: 1312

Traveler will probably be 1/2. My wife may join us for lunch, but I'd say that's a pretty big maybe.

BTW, are there any plans for spousal entertainment on Friday during the symposium?

Zack

n9xtn@... wrote:

> Everyone,
>
> In order to make sure the UNO food court and the China One buffet are
> prepared to host us for lunch and dinner on Friday, we need to provide
> firmer attendance numbers than we have at the moment. Below is the
> latest we have. If your group has changes, or is not listed, please
> let me know your expected numbers.
>
> Group Lunch/Dinner
>
> CAP-N-SPACE: ?/?
> CNNSP: 5/5
> EOSS: 13/13
> GPA: 2/2
> HABITAT: ?/?
> MECSAT: ?/?
> ORB: ?/?
> Traveler: 1/?
> Taylor Univ: ?/?
> KD4STH: 1/1
> WB8ELK: 1/1
> Iowa State ?/?
> KU ?/?
>
> For NSTAR, let me know if you plan to attend the conference (with
> lunch) and/or the Friday night dinner.
>
> 73 de Mark N9XTN
>
>
>
>
> ---
> *Yahoo! Groups Links*
>
> * To visit your group on the web, go to:

> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>

1313. Spouse activities

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-13 23:10:01 UTC
From: Mark Conner
Topic: 1310 Message: 1313

My wife was hoping to take care of that when NSTAR agreed to host GPSL 2005, but since she'll be 8.5 months pregnant she won't be able to.

For something outdoors, I would suggest the Henry Doorly Zoo (13th St just south of I-80, next to Rosenblatt Stadium). Area malls include Westroads (102nd and Dodge), Oak View (144th and Center) or Village Pointe (168th and Dodge). Westroads and Oak View are conventional indoor malls, Village Pointe is a new "outdoor mall" similar to some of the ones I remember seeing around Broomfield CO.

The Omaha Children's Museum is good for kids ages 2-10.

The Old Market area in downtown Omaha also has a variety of niche stores that are out of the ordinary.

I'd also recommend the Strategic Air and Space Museum between Lincoln and Omaha, but that will appeal more to the GPSL attendees than spouses I imagine. If you do have an extra half-day (or we get rained out Saturday), it's worth the drive.

73 de Mark N9XTN

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Monday, June 13, 2005 16:44
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Updates for GPSL attendance

BTW, are there any plans for spousal entertainment on Friday during the symposium?

Zack

1314. Re: [GPSL] Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-14 14:49:12 UTC
From: David Hoffman
Topic: 1310 Message: 1314

Please add 2/2 to WB8ELK's figures for myself and my daughter.

David Hoffman - KE4FGW

>
>
>
> Everyone,
> In order to make sure the UNO food court and the China One buffet are
> prepared to host us for lunch and dinner on Friday, we need to provide
> firmer attendance numbers than we have at the moment. Below is the latest
> we have. If your group has changes, or is not listed, please let me know
> your expected numbers.
> Group Lunch/Dinner
> CAP-N-SPACE: ?/?CNNSP: 5/5EOSS:
> 13/13GPA: 2/2HABITAT: ?/?MECSAT:
> ?/?ORB: ?/?Traveler: 1/?Taylor Univ:
> ?/?KD4STH: 1/1
> WB8ELK: 1/1Iowa State ?/?KU ?/?
> For NSTAR, let me know if you plan to attend the conference (with lunch)
> and/or the Friday night dinner.
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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> To visit your group on the web, go to:http://groups.yahoo.com/group/GPSL/
> To unsubscribe from this group, send an email
> to:GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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1315. GPSL in this month's QST

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-15 23:25:44 UTC
From: Mark Conner
Topic: 1315 Message: 1315

The announcement we submitted for GPSL is on p. 91 in this month's QST as a
"

1316. GPSL and EOSS in this month's QST

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-15 23:29:37 UTC
From: Mark Conner
Topic: 1316 Message: 1316

The announcement we submitted for GPSL is on p. 91 in this month's QST as a "Stray". Also, EOSS is featured as part of the "Digital Dimension" column on page 86.

73 de Mark N9XTN

1317. Fw: End-of-Life-Notice for all Motorola Products

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-16 16:43:43 UTC
From: Ralph Wallio, W0RPK
Topic: 1317 Message: 1317
Attachments: 1 described; binary payloads are missing from this source WARC

The times they are achangin'. Incidentally, the SiRF Star-I chip set does not work above 18km. The SiRF Star-II chip set -may- work above 18km. See http://users.crosspaths.net/~wallio/gps60kft.html for more info.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Rosa Puig" <rosa@...>
To: "Mr.Ralph Wallio" <wallio@...>
Sent: Thursday, June 16, 2005 11:09 AM
Subject: End-of-Life-Notice for all Motorola Products

Dear Customer,

We regret to inform you that Motorola has discontinued all of its GPS modules. Please refer to the attached notice and feel free to contact us to discuss alternate solutions for your application. We are committed to continue supporting your GPS requirements as we have done for the last 20 years.

Best Regards,

Rosa Puig
Marketing Manager
Synergy Systems, LLC
+1-858-566-0666

1318. Max altitude considerations

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-17 13:59:55 UTC
From: n9xtn@cox.net
Topic: 1318 Message: 1318

The GFS data is now covering the GPSL weekend. So far, the predictions indicate sunny and hot weather (90s to 100F). You may wish to factor this into your planning (bring water for the chase and use lots of sunscreen).

Also, the forecasts indicate the winds below 60,000' could be light from the west, while the winds above are from the east and get stronger as you approach 100kft. We could be in a situation where if the balloon burst at 80,000 ft the landing will be several miles east of the launch site, while a burst at 105,000 ft puts you several miles west.

Our current launch sites can't handle both - east of Wahoo are the Platte and Elkhorn rivers with lots of trees, then you get into more developed areas. West of Treynor gets you into Eppley airspace and more development.

Is there anyone planning to exceed the mid-90s with their flight? I think we'll only have a problem if anyone goes higher than that. Also, the forecasts two weeks out are not all that great, so it's far from certain we will have this situation. But it's easier to think about it now than it will be when GPSL starts. We should try to have about the same maximum altitudes to make planning and launch site selection easier.

73 de Mark N9XTN

1319. Fwd: Question

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-18 05:19:35 UTC
From: Jon Riley
Topic: 1319 Message: 1319

Note: forwarded message attached.

1320. Re: [EOSS] GPSL and EOSS in this month's QST

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 02:57:26 UTC
From: Mike Manes
Topic: 1320 Message: 1320

Hi Mark,

It's not in my June issue. Do you mean July '05 QST?

73 de Mike W5VSI

Mark Conner wrote:
>
> The announcement we submitted for GPSL is on p. 91 in this month's QST as a
> "Stray". Also, EOSS is featured as part of the "Digital Dimension" column
> on page 86.
>
>
>
> 73 de Mark N9XTN
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1321. Re: [GPSL] Max altitude considerations

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 04:20:17 UTC
From: Mike Manes
Topic: 1318 Message: 1321

Hi Mark,

It may be wise to keep launch site options open and make a final decision on Friday afternoon based on best forecasts. Kinda like we did last year -- except with permissions in the hat in adevance.

73 de Mike W5VSI

n9xtn@... wrote:
>
> The GFS data is now covering the GPSL weekend. So far, the predictions indicate sunny and hot weather (90s to 100F). You may wish to factor this into your planning (bring water for the chase and use lots of sunscreen).
>
> Also, the forecasts indicate the winds below 60,000' could be light from the west, while the winds above are from the east and get stronger as you approach 100kft. We could be in a situation where if the balloon burst at 80,000 ft the landing will be several miles east of the launch site, while a burst at 105,000 ft puts you several miles west.
>
> Our current launch sites can't handle both - east of Wahoo are the Platte and Elkhorn rivers with lots of trees, then you get into more developed areas. West of Treynor gets you into Eppley airspace and more development.
>
> Is there anyone planning to exceed the mid-90s with their flight? I think we'll only have a problem if anyone goes higher than that. Also, the forecasts two weeks out are not all that great, so it's far from certain we will have this situation. But it's easier to think about it now than it will be when GPSL starts. We should try to have about the same maximum altitudes to make planning and launch site selection easier.
>
> 73 de Mark N9XTN
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1322. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-18 22:18:02 UTC
From: Mike Manes
Topic: 1273 Message: 1322

Hi Bill,

The EOSS de-spun ATV is also rockbound on 426.25 MHz with a horizontal little wheel. Flip ya for it?

73 de Mike W5VSI

wb8elk@... wrote:
>
> I can plan on doing 426.25 MHz....I'll be running about 3 watts and
> will be horizontal.
>
> - Bill WB8ELK
>
> --
> Yahoo! Groups Links
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1323. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-18 22:40:48 UTC
From: Mike Manes
Topic: 1298 Message: 1323

Hi Mark,

Just got back from a week in Sweden, so apologize for the late response.
And that meant that I missed EOSS-91, which I hear went well, except
for a re-run of that irreproducible GPS error on late descent. Glad we
have
baro telemetry to cover the altitude part, but gotta DF for the
position.

Yeah, EOSS can take a 10-sec or 15-sec slot on 144.34, or we can move
off to 145.600 - or even 70cm.

Since I have dialup, accessing web sites for simple textual info is
a major pain. Could you cut the time slot assignment info over to me
or this reflector as a simple text email?

73 de Mike W5VSI

> Mark Conner wrote:
>
> http://www.superlaunch.org/frequencies.html
>
> Please check your assigments and let me know of any problems. The
> slotting is provisional, so don't take these as gospel just yet.
>
> Bill WB8ELK - would you like two of your beacons on 144.36? That may
> help you track two flights simultaneously. Most everyone is flexible
> between .34 and .36.
>
> I did not put in ATV yet, pending resolution of who will be flying
> what.
>
> For EOSS (hope your flight(s) went well, BTW) - with the number of
> slots dwindling and your interest in perhaps using 145.60 and 147.555
> with APRS, do you want a time slot on 144.34 or 144.36? You're
> wide-open on the other frequencies. If you'd like a 144.34/144.36
> slot, we'll reduce to 10-sec slots.
>
> Harry KC5TRB - are you flying at GPSL? If not, that will free one of
> the other slots.
>
> Don KA0JLF - I put you down for 147.585 SSTV - NSTAR has used this
> before. You can choose another open frequency if you wish.
>
> 73 de Mark N9XTN
>

>
> ---
> Yahoo! Groups Links
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1324. Re: [GPSL] Max altitude considerations

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 05:26:46 UTC
From: wb8elk@aol.com
Topic: 1318 Message: 1324

I imagine that both of my flights will exceed 100k.....but I agree with Mike that we should wait and see as we get closer for more accurate wind predictions and keep our options open.

- Bill WB8ELK

1325. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 05:31:52 UTC
From: wb8elk@aol.com
Topic: 1273 Message: 1325

I've lost track of the final count as to who is planning on flying ATV and on what frequency....can I get a recap.....I can run on 434 MHz unless someone else is planning on using that frequency.....I think 426.25 (EOSS) and 439.25 are covered by rock-bound groups.

73s de Bill WB8ELK

1326. RE: [GPSL] Re: [EOSS] GPSL and EOSS in this month's QST

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 11:33:31 UTC
From: Mark Conner
Topic: 1320 Message: 1326

The July issue is what I meant - just got it a few days ago.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Saturday, June 18, 2005 21:57
To: Mark Conner N9XTN
Cc: EOSS@yahoogroups.com; GPSL@yahoogroups.com
Subject: [GPSL] Re: [EOSS] GPSL and EOSS in this month's QST

Hi Mark,

It's not in my June issue. Do you mean July '05 QST?

73 de Mike W5VSI

Mark Conner wrote:
>
> The announcement we submitted for GPSL is on p. 91 in this month's QST as a
> "Stray". Also, EOSS is featured as part of the "Digital Dimension" column
> on page 86.
>
>
>
> 73 de Mark N9XTN

1327. RE: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 11:37:53 UTC
From: Mark Conner
Topic: 1298 Message: 1327

Mike,

I have 50-59 seconds open for AE0SS-11 on either 144.34 or 144.36 - I have you on .36 at the moment, but the slot is open on .34 too. Unfortunately, I can't cleanly cut/paste the table from the web page into an e-mail.

73 de Mark N9XTN

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Saturday, June 18, 2005 17:41
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Time slot and frequency assignments available

Hi Mark,

Just got back from a week in Sweden, so apologize for the late response. And that meant that I missed EOSS-91, which I hear went well, except for a re-run of that irreproducible GPS error on late descent. Glad we have
baro telemetry to cover the altitude part, but gotta DF for the position.

Yeah, EOSS can take a 10-sec or 15-sec slot on 144.34, or we can move off to 145.600 - or even 70cm.

Since I have dialup, accessing web sites for simple textual info is a major pain. Could you cut the time slot assignment info over to me or this reflector as a simple text email?

73 de Mike W5VSI

1328. RE: [GPSL] Max altitude considerations

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 11:45:32 UTC
From: Mark Conner
Topic: 1318 Message: 1328

No, there's no reason to foreclose options at this point, however, we could find ourselves in a situation where some people will fly a 90,000' flight from one launch site and land safely, while those getting to 105,000' would have an unfavorable landing from the same launch point.

So if it's possible, I would suggest that those groups planning to fly high also bring the capability to not go as high.

Today's forecast shows it not to be a problem - we'd fly from Treynor and the landings would be between 25 and 40 miles to the ENE.

Bill, do you want two of your beacons on one frequency, or one on all three like it's assigned now?

73 de Mark N9XTN

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Sunday, June 19, 2005 00:27
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Max altitude considerations

I imagine that both of my flights will exceed 100k.....but I agree with Mike that we should wait and see as we get closer for more accurate wind predictions and keep our options open.

- Bill WB8ELK

1329. RE: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-19 11:51:25 UTC
From: Mark Conner
Topic: 1273 Message: 1329

Traveler has dropped out for ATV, so it's now 4 groups on three frequencies. MECSAT and WB8ELK are both capable of all three. EOSS is rockbound on 426.25 and HABITAT on 439.25.

One option, to get some physical separation, is to have one of the two balloons flying the same ATV frequency to launch at different times.

73 de Mark N9XTN

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Sunday, June 19, 2005 00:32
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

I've lost track of the final count as to who is planning on flying ATV and on what frequency....can I get a recap.....I can run on 434 MHz unless someone else is planning on using that frequency.....I think 426.25 (EOSS) and 439.25 are covered by rock-bound groups.

73s de Bill WB8ELK

1330. A few updates to GPSL page

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-21 16:11:52 UTC
From: n9xtn@cox.net
Topic: 1330 Message: 1330

An agenda for Friday is now available at http://www.superlaunch.org . Each talk is set to go about 45 minutes, which will leave 15 minutes for Q&A, break, and offline discussions. Additional maps have been posted as well.

The conference will be held in "Pod C" in Roskens Hall, which I am told seats at least 112. I still have not heard back regarding wired or wireless Internet availability in this room. From reading the UNO web site, I believe that there should be an extensive WiFi network on campus. However, you should also plan to bring whatever is necessary to hook up to wired Ethernet on Friday if you want it.

Because UNO provides food service to the whole campus, we are not allowed to do our own catering such as bringing in coffee and donuts for the morning. UNO's cost for catering coffee and donuts is somewhat excessive in my opinion ($1.25+ for one coffee cup and one donut). However, the prices for breakfast in the student center food court are pretty reasonable and the court opens at 7am. You are welcome to bring your own items with you to the conference. I believe there are vending machines in the building.

If you have not sent in your helium orders, please do so ASAP.

73 de Mark N9XTN

1331. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-21 21:48:14 UTC
From: Mike Manes
Topic: 1273 Message: 1331

Hi Mark,

EOSS is willing to ease the congestion on 70cm ATV. We'll leave the
despun
ATV on the deck and replace it and the APRS module with the W0WYX
crossband repeater w/ APRS, rockbound on 445.975 up / 147.555 down
contin.
carrier. And we'll fly our CW/cutdown on 145.600.

It appears that there'll be more than enough 70cm ATV for Chris KB0YRZ
to
record.

Note also that each DSB AM ATV signal covers carrier +/- 6 MHz, or 12
MHz.
Since the entire 70cm band is just 30 MHz wide, then there's QRM-free
room for only two ATV sigs: 426.25 and 439.25.

73 de Mike W5VSI

Mark wrote:

Traveler has dropped out for ATV, so it?s now 4 groups on three
frequencies. MECSAT and WB8ELK are both capable of all three.
EOSS is rockbound on 426.25 and HABITAT on 439.25.

One option, to get some physical separation, is to have one of the two
balloons flying the same ATV frequency to launch at
different times.

73 de Mark N9XTN

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1332. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-20 23:24:19 UTC
From: Mike Manes
Topic: 1273 Message: 1332

Hi Bill,

Well, it does appear that there will be plenty of 70 cm ATV flying at GPSL 05, so Chris KB0YRZ will have plenty to watch with his mobile ATV & VCR - in that case, then I'm inclined to leave the EOSS de-spun ATV on the deck and replace it with the lighter 445.975/147.555 crossband repeater.

Re 434 MHz: haven't tried it, but suspect that, since DSB AM ATV fills 6 MHz
on either side of the carrier, it will QRM both 426 and 439 ATV sigs.

Looking forward to flying with ya again, Bill!

73 de Mike W5VSI

wb8elk@... wrote:
>
> I've lost track of the final count as to who is planning on flying ATV
> and on what frequency....can I get a recap.....I can run on 434 MHz
> unless someone else is planning on using that frequency.....I think
> 426.25 (EOSS) and 439.25 are covered by rock-bound groups.
>
> 73s de Bill WB8ELK
>
> --
> Yahoo! Groups Links
>
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> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1333. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 12:27:15 UTC
From: Don KA0JLF
Topic: 1273 Message: 1333

Ok, since we seem to be a fly in the ointment, we'll
drop the ATV payload.

73
Don

--- Mike Manes <manes@...> wrote:

> Hi Mark,
>
> EOSS is willing to ease the congestion on 70cm ATV.
> We'll leave the
> despun
> ATV on the deck and replace it and the APRS module
> with the W0WYX
> crossband repeater w/ APRS, rockbound on 445.975 up
> / 147.555 down
> contin.
> carrier. And we'll fly our CW/cutdown on 145.600.
>
> It appears that there'll be more than enough 70cm
> ATV for Chris KB0YRZ
> to
> record.
>
> Note also that each DSB AM ATV signal covers carrier
> +/- 6 MHz, or 12
> MHz.
> Since the entire 70cm band is just 30 MHz wide, then
> there's QRM-free
> room for only two ATV sigs: 426.25 and 439.25.
>
> 73 de Mike W5VSI
>
> Mark wrote:
>
> Traveler has dropped out for ATV, so it?s now 4
> groups on three
> frequencies. MECSAT and WB8ELK are both capable of
> all three.
> EOSS is rockbound on 426.25 and HABITAT on 439.25.
>
> One option, to get some physical separation, is to
> have one of the two
> balloons flying the same ATV frequency to launch at
> different times.

>
> 73 de Mark N9XTN
>
>
>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
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1334. Re: [GPSL] Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 14:18:02 UTC
From: Harry M
Topic: 1310 Message: 1334

Lunch & dinner 2/2

Harry - KC5TRB - Tulsa

Subject: [GPSL] Updates for GPSL attendance

1335. Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 14:58:02 UTC
From: shermane2001
Topic: 1273 Message: 1335

Why can't we all just follow your advice (KA0JLF) and come prepared
for ATV? When I was going to drop out, you said that we should see
what we can work out when we get there. I'm a rank amateur at ATV and
don't want to stand in the way of you and EOSS.

--- In GPSL@yahoogroups.com, Don KA0JLF <ka0jlf@a...> wrote:
> Ok, since we seem to be a fly in the ointment, we'll
> drop the ATV payload.
>
> 73
> Don
>
> --- Mike Manes <manes@a...> wrote:
>
> > Hi Mark,
> >
> > EOSS is willing to ease the congestion on 70cm ATV.
> > We'll leave the
> > despun
> > ATV on the deck and replace it and the APRS module
> > with the W0WYX
> > crossband repeater w/ APRS, rockbound on 445.975 up
> > / 147.555 down
> > contin.
> > carrier. And we'll fly our CW/cutdown on 145.600.
> >
> > It appears that there'll be more than enough 70cm
> > ATV for Chris KB0YRZ
> > to
> > record.
> >
> > Note also that each DSB AM ATV signal covers carrier
> > +/- 6 MHz, or 12
> > MHz.
> > Since the entire 70cm band is just 30 MHz wide, then
> > there's QRM-free
> > room for only two ATV sigs: 426.25 and 439.25.
> >
> > 73 de Mike W5VSI
> >
> > Mark wrote:
> >
> > Traveler has dropped out for ATV, so itï¿½s now 4
> > groups on three
> > frequencies. MECSAT and WB8ELK are both capable of

> > all three.
> > EOSS is rockbound on 426.25 and HABITAT on 439.25.
> >
> > One option, to get some physical separation, is to
> > have one of the two
> > balloons flying the same ATV frequency to launch at
> > different times.
> >
> > 73 de Mark N9XTN
> >
> >
> >
> > --
> > Mike Manes manes@a... Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but
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> _____
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> http://tour.mail.yahoo.com/mailtour.html

1336. ATV at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 15:37:42 UTC
From: n9xtn@cox.net
Topic: 1336 Message: 1336

I would suggest to all the ATV groups that they at least bring their equipment next week. We can do rock/paper/scissors on Friday, or fly them all and see what happens. It may be nice to know if physical separation and relatively low power might mitigate some of the adjacent-channel QRM issues.

73 de Mark N9XTN

1337. RE: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 16:33:28 UTC
From: Holmes, Will
Topic: 1273 Message: 1337

I hope there is at least one group flying ATV. I would be very
interested is seeing this work.

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
Don KA0JLF
Sent: Wednesday, June 22, 2005 7:27 AM
To: GPSL@yahoogroups.com
Cc: habitat_skylab@yahoogroups.com
Subject: Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Ok, since we seem to be a fly in the ointment, we'll
drop the ATV payload.

73
Don

--- Mike Manes <manes@...> wrote:

> Hi Mark,
>
> EOSS is willing to ease the congestion on 70cm ATV.
> We'll leave the
> despun
> ATV on the deck and replace it and the APRS module
> with the W0WYX
> crossband repeater w/ APRS, rockbound on 445.975 up
> / 147.555 down
> contin.
> carrier. And we'll fly our CW/cutdown on 145.600.
>
> It appears that there'll be more than enough 70cm
> ATV for Chris KB0YRZ
> to
> record.
>
> Note also that each DSB AM ATV signal covers carrier

> +/- 6 MHz, or 12
> MHz.
> Since the entire 70cm band is just 30 MHz wide, then
> there's QRM-free
> room for only two ATV sigs: 426.25 and 439.25.
>
> 73 de Mike W5VSI
>
> Mark wrote:
>
> Traveler has dropped out for ATV, so it's now 4
> groups on three
> frequencies. MECSAT and WB8ELK are both capable of
> all three.
> EOSS is rockbound on 426.25 and HABITAT on 439.25.
>
> One option, to get some physical separation, is to
> have one of the two
> balloons flying the same ATV frequency to launch at
> different times.
>
> 73 de Mark N9XTN
>
>
>
> --
> Mike Manes manes@... Tel:
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> "Things should be made as simple as possible, but
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* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

1338. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 18:18:37 UTC
From: Harry M
Topic: 1298 Message: 1338

Mark,

I will be flying at GPSL!
I only have VHF for tracking in the Jeep, I can't go UHF.

On time Slotting, I will be using a TTIII and I'm not sure what I need to
put in for the setup.
I had a problem at GPSL2004 trying to put it in and ended up turning it on
at the launch site
when there were no other transmissions.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

> >
> > Harry KC5TRB - are you flying at GPSL? If not, that will free one of
> > the other slots.
> >

1339. Re: [GPSL] Re: Is anyone planning on flying 440MHz ATV at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-22 22:34:54 UTC
From: Mike Manes
Topic: 1273 Message: 1339

I'm planning on bringing out our de-spun ATV and APRS modules prepped
to fly in any event, even if they're just for show & tell. EOSS is
flexible ... :=}

73 de Mike W5VSI, EOSS

shermane2001 wrote:
>
> Why can't we all just follow your advice (KA0JLF) and come prepared
> for ATV? When I was going to drop out, you said that we should see
> what we can work out when we get there. I'm a rank amateur at ATV and
> don't want to stand in the way of you and EOSS.
>
> --- In GPSL@yahoogroups.com, Don KA0JLF <ka0jlf@a...> wrote:
> > Ok, since we seem to be a fly in the ointment, we'll
> > drop the ATV payload.
> >
> > 73
> > Don
> >
> > --- Mike Manes <manes@a...> wrote:
> >
> > > Hi Mark,
> > >
> > > EOSS is willing to ease the congestion on 70cm ATV.
> > > We'll leave the
> > > despun
> > > ATV on the deck and replace it and the APRS module
> > > with the W0WYX
> > > crossband repeater w/ APRS, rockbound on 445.975 up
> > > / 147.555 down
> > > contin.
> > > carrier. And we'll fly our CW/cutdown on 145.600.
> > >
> > > It appears that there'll be more than enough 70cm
> > > ATV for Chris KB0YRZ
> > > to
> > > record.
> > >
> > > Note also that each DSB AM ATV signal covers carrier
> > > +/- 6 MHz, or 12
> > > MHz.
> > > Since the entire 70cm band is just 30 MHz wide, then
> > > there's QRM-free
> > > room for only two ATV sigs: 426.25 and 439.25.

> > >
> > > 73 de Mike W5VSI
> > >
> > > Mark wrote:
> > >
> > > Traveler has dropped out for ATV, so it?s now 4
> > > groups on three
> > > frequencies. MECSAT and WB8ELK are both capable of
> > > all three.
> > > EOSS is rockbound on 426.25 and HABITAT on 439.25.
> > >
> > > One option, to get some physical separation, is to
> > > have one of the two
> > > balloons flying the same ATV frequency to launch at
> > > different times.
> > >
> > > 73 de Mark N9XTN
> > >
> > >
> > >
> > > --
> > > Mike Manes manes@a... Tel:
> > > 303-979-4899
> > > "Things should be made as simple as possible, but
> > > not more so." A.
> > > Einstein
> > >
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
> > >
> > >
> > > GPSL-unsubscribe@yahoogroups.com
> > >
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> >
> >
> > _____________________________________
> > Yahoo! Mail
> > Stay connected, organized, and protected. Take the tour:
> > http://tour.mail.yahoo.com/mailtour.html

>
>
> Yahoo! Groups Links
>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1340. GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 02:00:55 UTC
From: Mark Conner
Topic: 1340 Message: 1340

Everyone,

I've decided to try this out as a sort of experiment. I only found this site Sunday and decided to create a GPSL 2005 t-shirt with it. It looked good enough and the prices were reasonable enough that I figured I'd offer this to the group for an opportunity to order their own shirts.

Here's the link:

http://www.zazzle.com/products/product/product.asp?caching=on <http://www.zazzle.com/products/product/product.asp?caching=on&product%5Fid=235584381215369991&index=2> &product%5Fid=235584381215369991&index=2

You can customize this shirt with your callsign on the front if you want, or you can leave it as-is if you prefer. You can see what your price will be before committing to an order. Each shirt runs about $17 plus S&H. Obviously, a group order will reduce those shipping charges and brings a quantity discount, but I didn't really have time now to organize a group order for all the participants.

In addition to regular t-shirts, polos, premium T's, and other apparel items are available with the same design. I would recommend a white or light gray item, as the light parts of any image will show the shirt color.

Any proceeds will go towards defraying overhead expenses for the GPSL.

I have no personal experience with this company, other than to find them on the net and decide they were very reasonably priced for small quantities. I plan to make my own order and have the shirts here in time for next Friday. Zazzle indicates they will ship within 24 hrs after order receipt, so if you order this week you should get it in time to have before your departure for Omaha.

You can order this shirt after GPSL if you wish - this design will stay on the site indefinitely.

E-mail me if you have any questions.

73 de Mark N9XTN

1341. Re: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 02:35:46 UTC
From: Harry M
Topic: 1340 Message: 1341

Looks good Mark! Where is the CUSTOMIZE option?

I would rather see "GREAT PLAINS SUPER LAUNCH 2005"
on the back rather than all the pevious years.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons

Subject: [GPSL] GPSL 2005 t-shirts

1342. RE: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 02:42:18 UTC
From: Mark Conner
Topic: 1340 Message: 1342

Below and to the right of the "Great Plains Super Launch" apparel, there are four buttons, one of which is "Customize". This should let you add or delete anything you wish.

- Mark

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Wednesday, June 22, 2005 21:36
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2005 t-shirts

Looks good Mark! Where is the CUSTOMIZE option?

I would rather see "GREAT PLAINS SUPER LAUNCH 2005"

on the back rather than all the pevious years.

1343. RE: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 02:45:22 UTC
From: Mark Conner
Topic: 1340 Message: 1343

One reason I went with the list of previous years was to sort of mimic concert T-shirts that have the tour dates/locations on it. I had visions of making an "NSTAR 2004 Midlands Tour" shirt at one time with a map of our flight tracks and list of launch dates/altitudes reached. I may yet...

- Mark

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Wednesday, June 22, 2005 21:42
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] GPSL 2005 t-shirts

Below and to the right of the "Great Plains Super Launch" apparel, there are four buttons, one of which is "Customize". This should let you add or delete anything you wish.

- Mark

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Wednesday, June 22, 2005 21:36
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2005 t-shirts

Looks good Mark! Where is the CUSTOMIZE option?

I would rather see "GREAT PLAINS SUPER LAUNCH 2005"

on the back rather than all the pevious years.

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

1344. RE: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 02:47:09 UTC
From: Joy L
Topic: 1340 Message: 1344

I just ordered mine!

73
Joy KB?YUP

--- Mark Conner <n9xtn@...> wrote:

> One reason I went with the list of previous years
> was to sort of mimic
> concert T-shirts that have the tour dates/locations
> on it. I had visions of
> making an "NSTAR 2004 Midlands Tour" shirt at one
> time with a map of our
> flight tracks and list of launch dates/altitudes
> reached. I may yet...
>
>
>
> - Mark
>
>
>
> _____
>
> From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com] On Behalf Of Mark
> Conner
> Sent: Wednesday, June 22, 2005 21:42
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] GPSL 2005 t-shirts
>
>
>
> Below and to the right of the "Great Plains Super
> Launch" apparel, there are
> four buttons, one of which is "Customize". This
> should let you add or
> delete anything you wish.
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>
>
> - Mark
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>
> From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com] On Behalf Of Harry
> M
> Sent: Wednesday, June 22, 2005 21:36
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] GPSL 2005 t-shirts
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> Looks good Mark! Where is the CUSTOMIZE option?
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> I would rather see "GREAT PLAINS SUPER LAUNCH 2005"
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> on the back rather than all the pevious years.
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>
> Yahoo! Groups Links
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of
> Service.
>
>

Yahoo! Sports
Rekindle the Rivalries. Sign up for Fantasy Football
http://football.fantasysports.yahoo.com

1345. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 02:03:36 UTC
From: Mike Manes
Topic: 1298 Message: 1345

Hi Harry,

If you have the windoze-based ttconfig.exe, it's easy to set up slotting
via the serial port.

That program is downloadable from www.byonics.com. Be sure to set
slotting up for both the primary and secondary beacons, tho.

73 de Mike W5VSI

Harry M wrote:
>
> Mark,
>
> I will be flying at GPSL!
> I only have VHF for tracking in the Jeep, I can't go UHF.
>
> On time Slotting, I will be using a TTIII and I'm not sure what I need to
> put in for the setup.
> I had a problem at GPSL2004 trying to put it in and ended up turning it on
> at the launch site
> when there were no other transmissions.
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
> > >
> > > Harry KC5TRB - are you flying at GPSL? If not, that will free one of
> > > the other slots.
> > >
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1346. RE: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 12:58:26 UTC
From: David Hoffman
Topic: 1340 Message: 1346

Me too! looks great.

David Hoffman - KE4FGW

>
>
>
>
> I just ordered mine!
>
> 73
> Joy KB?YUP
>
>
> --- Mark Conner >n9xtn@...< wrote:
>
> < One reason I went with the list of previous years
> < was to sort of mimic
> < concert T-shirts that have the tour dates/locations
> < on it. I had visions of
> < making an "NSTAR 2004 Midlands Tour" shirt at one
> < time with a map of our
> < flight tracks and list of launch dates/altitudes
> < reached. I may yet...
> <
> <
> <
> < - Mark
> <
> <
> <
> < _____
> <
> < From: GPSL@yahoogroups.com
> < [mailto:GPSL@yahoogroups.com] On Behalf Of Mark
> < Conner
> < Sent: Wednesday, June 22, 2005 21:42
> < To: GPSL@yahoogroups.com
> < Subject: RE: [GPSL] GPSL 2005 t-shirts
> <
> <
> <
> < Below and to the right of the "Great Plains Super
> < Launch" apparel, there are
> < four buttons, one of which is "Customize". This

> < should let you add or
> < delete anything you wish.
> <
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> <
> < - Mark
> <
> <
> <
> < _____
> <
> < From: GPSL@yahoogroups.com
> < [mailto:GPSL@yahoogroups.com] On Behalf Of Harry
> < M
> < Sent: Wednesday, June 22, 2005 21:36
> < To: GPSL@yahoogroups.com
> < Subject: Re: [GPSL] GPSL 2005 t-shirts
> <
> <
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> < Looks good Mark! Where is the CUSTOMIZE option?
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> <
> < I would rather see "GREAT PLAINS SUPER LAUNCH 2005"
> <
> < on the back rather than all the pevious years.
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> < Yahoo! Groups Links
> <
> < * To visit your group on the web, go to:
> < http://groups.yahoo.com/group/GPSL/
> <
> < * To unsubscribe from this group, send an email to:
> < GPSL-unsubscribe@yahoogroups.com
> mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribehttp://docs.yahoo.com/info/te
rms/<
> Terms of
> < Service.
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> _____
> Yahoo! Sports
> Rekindle the Rivalries. Sign up for Fantasy Football
> http://football.fantasysports.yahoo.com
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> Yahoo! Groups Links
>
> To visit your group on the web, go to:http://groups.yahoo.com/group/GPSL/
> To unsubscribe from this group, send an email
> to:GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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1347. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 17:18:58 UTC
From: Harry M
Topic: 1298 Message: 1347

Hi Mike,

I am familiar with the program just not the slotting portion.
My time slot is listed on the GPSL site as 20-29 on 144.360.
Do I just pick one at random, say 28, or do I get assigned one?

I came through Pueblo, Co Springs, Denver and stayed in
Longmont last weekend for a couple days. I tried to call you
on the 449.350 repeater, but no joy. I would have called,
but I lost your phone number.

73 Harry

> If you have the windoze-based ttconfig.exe, it's easy to set up slotting
> via the serial port.

1348. Re: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 17:21:56 UTC
From: Harry M
Topic: 1340 Message: 1348

Looks like I have to register to CUSTOMIZE!

Below and to the right of the "Great Plains Super Launch" apparel, there are four buttons, one of which is "Customize". This should let you add or delete anything you wish.

1349. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 18:13:35 UTC
From: n9xtn@cox.net
Topic: 1298 Message: 1349

To be safe, pick something in the middle of that range. 23 or 24 would work well, as the TT3 probably won't process and start TXing for a second or two.

As long as your transmissions are within the 20-29 seconds after the minute, that's all that's necessary.

73 de Mark N9XTN

----- Original Message -----
From: "Harry M" <hhm_74115@...>
Date: Thursday, June 23, 2005 12:18 pm
Subject: Re: [GPSL] Time slot and frequency assignments available

> Hi Mike,
>
> I am familiar with the program just not the slotting portion.
> My time slot is listed on the GPSL site as 20-29 on 144.360.
> Do I just pick one at random, say 28, or do I get assigned one?
>
> I came through Pueblo, Co Springs, Denver and stayed in
> Longmont last weekend for a couple days. I tried to call you
> on the 449.350 repeater, but no joy. I would have called,
> but I lost your phone number.
>
> 73 Harry
>
>
>

1350. ATV multiplexing idea to share one frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 19:36:30 UTC
From: wb8elk@aol.com
Topic: 1298 Message: 1350

I can rig my ATV tranmitter to transmit for 1 minute every other minute with a timed relay....for example transmitting on EVEN minutes....Probably reasonable accuracy is possible with using the timer on a microcontroller without a realtime clock requirement...even a 555 timer would probably work for this...who cares if there is a few seconds overlap as the timing changes a bit....a fancier way would be to sample the GPS data and key off the timestamp......if another group wants to do a transmission on the ODD minutes, we can share an ATV frequency....that way on the ground it would appear like someone was switching camera views...but the cameras would be on different balloons.

Let me know if any others have time to rig this concept up.

- Bill

1351. RE: [GPSL] Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 20:27:47 UTC
From: Holmes, Will
Topic: 1310 Message: 1351

Taylor will have at least 3 / 3. We were hoping for quite a few more, but it looks like this may be all we bring. If this grows to over 5/5 I will let you know.

Thanks,

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@... <mailto:wlholmes@taylor.edu>

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of n9xtn@cox.net
Sent: Monday, June 13, 2005 11:36 AM
To: gpsl@yahoogroups.com
Cc: knsp@yahoogroups.com
Subject: [GPSL] Updates for GPSL attendance

Everyone,

In order to make sure the UNO food court and the China One buffet are prepared to host us for lunch and dinner on Friday, we need to provide firmer attendance numbers than we have at the moment. Below is the latest we have. If your group has changes, or is not listed, please let me know your expected numbers.

Group Lunch/Dinner

CAP-N-SPACE: ?/?
CNNSP: 5/5
EOSS: 13/13
GPA: 2/2
HABITAT: ?/?
MECSAT: ?/?
ORB: ?/?
Traveler: 1/?
Taylor Univ: ?/?
KD4STH: 1/1
WB8ELK: 1/1
Iowa State ?/?
KU ?/?

For NSTAR, let me know if you plan to attend the conference (with lunch) and/or the Friday night dinner.

73 de Mark N9XTN

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service <http://docs.yahoo.com/info/terms/> .

1352. Re: [GPSL] Time slot and frequency assignments available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-23 23:08:06 UTC
From: Harry M
Topic: 1298 Message: 1352

Will do!
Thanks Mark.

73 Harry

>
> As long as your transmissions are within the 20-29 seconds after the minute, that's all that's necessary.
>

1353. Re: Helium pricing

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 00:45:41 UTC
From: shermane2001
Topic: 1271 Message: 1353

Hi, Mark. I forgot to indicate how much helium we'll need. We generally use 1 1/2 K tanks but would like to reserve 2K. Do we pay beforehand or when we arrive?

1354. Topeka Repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 16:29:20 UTC
From: Harry M
Topic: 1354 Message: 1354

I may rendevous with an OKC HAM in Topeka.
What Topeka 2m/70cm repeaters have the best coverage?

Harry - KC5TRB - Tulsa

1355. 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 20:24:20 UTC
From: n9xtn@cox.net
Topic: 1355 Message: 1355

The end of next week looks like a fairly typical summertime pattern. The Bermuda high will extend over much of the southeast and south, just far enough to choke off the really good Gulf moisture feed. There should be enough, however, to still make it humid around here.

A low in eastern Colorado may cause us some trouble with winds. I expect the morning inversion will keep things quiet early, but anything past 9am will risk 15-kt winds out of the south. Our launch sites are pretty open, so there won't be much shelter.

A few afternoon thunderstorms are possible, but it doesn't look like anything organized will threaten us in the morning.

Morning temps should be around 70 and afternoon highs in the low 90s.

The upper-level winds are generally from the west at 15-40 knots up through 65,000 ft. Above that, they will switch to the east at 15-25 knots. I believe that should put our landings east of the launch site, meaning we'll most likely use Treynor HS in Iowa.

Pending a few inputs from people, I have some placements worked out for the groups at the parking lots. In general, we'll put the helium tanks on the edge of the parking lot and people can choose to fill on the grass or on the concrete. We'll try to keep vehicles away from where people are filling. Both parking lots have some light poles, but are mostly free of overhead power lines. You may have to move a little after filling if you're directly upwind of a pole.

Zack W0ZC is bringing an airband radio, so we will make an announcement on the appropriate CTAF/UNICOM (122.7 for Wahoo, 122.8 for Council Bluffs) prior to release.

It's been emphasized in previous years, and we'll do so again - PLEASE arrive early enough to launch on time! I expect to have the helium on-site by 0630, and suggest everyone get to the launch site around 0700. We'll start filling balloons around 0800 for a launch at 0830.

73 de Mark N9XTN

1356. Re: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 20:40:43 UTC
From: Harry M
Topic: 1355 Message: 1356

I will have my tank of helium in the back of my Jeep and use 15 ft of hose from
the tank to the balloon. I do not plan on removing the tank for filling. Will this
be a problem? I can fill away from others if my vehicle is of any concern.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons

> ... We'll try to keep vehicles away from where people are filling. ...

1357. Re: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 21:01:42 UTC
From: n9xtn@cox.net
Topic: 1355 Message: 1357

I should phrase that as "unnecessary vehicles". If you want a vehicle close to where you fill, and it doesn't block someone else, that's fine. I just want to avoid having a vehicle that's not within that group's control blocking their fill/launch position.

- Mark

----- Original Message -----
From: "Harry M" <hhm_74115@...>
Date: Friday, June 24, 2005 3:40 pm
Subject: Re: [GPSL] 8-day weather forecast for GPSL

>
> I will have my tank of helium in the back of my Jeep and use 15 ft
> of hose
> from
> the tank to the balloon. I do not plan on removing the tank for
> filling.Will this
> be a problem? I can fill away from others if my vehicle is of any
> concern.
>

1358. Re: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 21:10:36 UTC
From: Harry M
Topic: 1355 Message: 1358

ROGER DOGER!

1359. Launch site layouts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-24 21:28:49 UTC
From: n9xtn@cox.net
Topic: 1359 Message: 1359
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1360. Re: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 03:38:00 UTC
From: Don KA0JLF
Topic: 1355 Message: 1360

Mark, I'll bring a tank with me, if we need a second
tank. I too will have it in back of my pickup. If I
do, I may pull a Harry too. ;-) IF that is ok. ;-)

73
Don

--- n9xtn@... wrote:

> I should phrase that as "unnecessary vehicles". If
> you want a vehicle close to where you fill, and it
> doesn't block someone else, that's fine. I just
> want to avoid having a vehicle that's not within
> that group's control blocking their fill/launch
> position.
>
> - Mark
>
> ----- Original Message -----
> From: "Harry M" <hhm_74115@...>
> Date: Friday, June 24, 2005 3:40 pm
> Subject: Re: [GPSL] 8-day weather forecast for GPSL
>
> >
> > I will have my tank of helium in the back of my
> Jeep and use 15 ft
> > of hose
> > from
> > the tank to the balloon. I do not plan on removing
> the tank for
> > filling.Will this
> > be a problem? I can fill away from others if my
> vehicle is of any
> > concern.
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
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_____
Yahoo! Sports
Rekindle the Rivalries. Sign up for Fantasy Football
http://football.fantasysports.yahoo.com

1361. Re: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 19:10:23 UTC
From: PAUL VERHAGE
Topic: 1355 Message: 1361

Can you get a PA system? I've noticed on large launches, it's difficult to yell loud enough to be heard by everyone.

Paul

>>> n9xtn@... 06/24/05 2:24 PM >>>
The end of next week looks like a fairly typical summertime pattern. The Bermuda high will extend over much of the southeast and south, just far enough to choke off the really good Gulf moisture feed. There should be enough, however, to still make it humid around here.

A low in eastern Colorado may cause us some trouble with winds. I expect the morning inversion will keep things quiet early, but anything past 9am will risk 15-kt winds out of the south. Our launch sites are pretty open, so there won't be much shelter.

A few afternoon thunderstorms are possible, but it doesn't look like anything organized will threaten us in the morning.

Morning temps should be around 70 and afternoon highs in the low 90s.

The upper-level winds are generally from the west at 15-40 knots up through 65,000 ft. Above that, they will switch to the east at 15-25 knots. I believe that should put our landings east of the launch site, meaning we'll most likely use Treynor HS in Iowa.

Pending a few inputs from people, I have some placements worked out for the groups at the parking lots. In general, we'll put the helium tanks on the edge of the parking lot and people can choose to fill on the grass or on the concrete. We'll try to keep vehicles away from where people are filling. Both parking lots have some light poles, but are mostly free of overhead power lines. You may have to move a little after filling if you're directly upwind of a pole.

Zack W0ZC is bringing an airband radio, so we will make an announcement on the appropriate CTAF/UNICOM (122.7 for Wahoo, 122.8 for Council Bluffs) prior to release.

It's been emphasized in previous years, and we'll do so again - PLEASE arrive early enough to launch on time! I expect to have the helium on-site by 0630, and suggest everyone get to the launch site around 0700. We'll start filling balloons around 0800 for a launch at 0830.

73 de Mark N9XTN

Yahoo! Groups Links

1362. Re: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 19:11:27 UTC
From: PAUL VERHAGE
Topic: 1355 Message: 1362

What Harry didn't tell you is that his "Jeep" is one of those 50 foot helium trucks that NSBF uses!!

Paul

>>> hhm_74115@... 06/24/05 2:40 PM >>>

I will have my tank of helium in the back of my Jeep and use 15 ft of hose
from
the tank to the balloon. I do not plan on removing the tank for filling.
Will this
be a problem? I can fill away from others if my vehicle is of any concern.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons

> ... We'll try to keep vehicles away from where people are filling. ...

Yahoo! Groups Links

1363. RE: [GPSL] 8-day weather forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 19:23:50 UTC
From: Mark Conner
Topic: 1355 Message: 1363

Probably not easily, unless someone in the group has one they can bring. I would like to get one person from each group on an HT on 446.50 MHz for launch day so we can communicate without yelling. With all the 2m payloads I think we'll have a hard time communicating on 2m simplex at the launch site.

Gee, a bunch of ham radio folks communicating by radio...who'da thunk it.....

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Saturday, June 25, 2005 14:10
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] 8-day weather forecast for GPSL

Can you get a PA system? I've noticed on large launches, it's difficult to yell loud enough to be heard by everyone.

Paul

1364. Re: [GPSL] ATV multiplexing idea to share one frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 16:19:34 UTC
From: Mike Manes
Topic: 1298 Message: 1364

Hi Bill,

The EOSS ATV is controlled by a Basic Stamp 1, generating MCS ID on
the audio side and switching cameras between the despun look-down and
the up-look at about 50K ft.

THe BSC1 timing is a bit coarse, but perhaps I could rig up that 50/50
2-min cycle, unless some other disaster, like windoze media player
wiping
out my digital camera driver, crops up between now and then!

73 de Mike W5VSI

Bill Brown wrote:
I can rig my ATV tranmitter to transmit for 1 minute every other minute
with a timed relay....for example
transmitting on EVEN minutes....Probably reasonable accuracy is possible
with using the timer on a
microcontroller without a realtime clock requirement...even a 555 timer
would probably work for this...who cares
if there is a few seconds overlap as the timing changes a bit....a
fancier way would be to sample the GPS data
and key off the timestamp......if another group wants to do a
transmission on the ODD minutes, we can share an
ATV frequency....that way on the ground it would appear like someone was
switching camera views...but the
cameras would be on different balloons.

Let me know if any others have time to rig this concept up.

- Bill

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1365. EOSS GPSL 05 attnedance update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 16:29:56 UTC
From: Mike Manes
Topic: 1365 Message: 1365

Hi Mark,

Just learned that Ann K0ANN and Shep N0NZM won't make it. So the EOSS contingent is now 10/12.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1366. GPSL forecast, 25 Jun

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 20:58:06 UTC
From: Mark Conner
Topic: 1366 Message: 1366

The forecast for next weekend is looking a little better. A weak frontal boundary will push south through the area late Thursday and could provide some lingering showers Friday morning, then clearing skies. Saturday morning looks to be partly cloudy with light winds from the south. A slight chance of showers is possible in the afternoon. Temperatures both days should range from the upper 60s in the morning to the mid-upper 80s in the afternoon, which is quite pleasant for Nebraska on 4th of July weekend (it's been in the mid-90s the past several days).

In general, the winds should be strong enough from the west between 15,000 and 50,000 ft to put all our landing east of the launch site, meaning we can comfortably use Treynor IA. Using the 12Z GFS winds from this morning's run, a 105kft burst would land about 5 miles SSE of Atlantic, IA. An 85,000 ft burst would be farther east, about 5 miles north of Massena. This is a pretty favorable area, with a good road grid, few trees, and just widely-spaced farmhouses.

73 de Mark N9XTN

1367. Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 21:19:33 UTC
From: jerometonneson
Topic: 1367 Message: 1367

Mark/Don: Nick and I are working on the KA0JLF-12 HABITAT/Skylab package. Would it be possible to move this one to the 10-19 second slot on .36? That would permit both of the 2-meter KA0JLF APRS systems (which may be on different balloons) to be tracked easier.

-Jerome
W0JRT

1368. RE: [GPSL] Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 21:26:28 UTC
From: Mark Conner
Topic: 1367 Message: 1368

That's fine - I'll adjust the web page shortly.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of jerometonneson
Sent: Saturday, June 25, 2005 16:20
To: GPSL@yahoogroups.com
Subject: [GPSL] Time slot adjustment

Mark/Don: Nick and I are working on the KA0JLF-12 HABITAT/Skylab package. Would it be possible to move this one to the 10-19 second slot on .36? That would permit both of the 2-meter KA0JLF APRS systems (which may be on different balloons) to be tracked easier.

-Jerome
W0JRT

Yahoo! Groups Links

1369. Re: [GPSL] Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-25 23:22:23 UTC
From: Harry M
Topic: 1367 Message: 1369

Just a quick note to let you know I've set ORB's
slot to 22 and it is actually transmitting at 23.

Harry - KC5TRB

1370. Re: [GPSL] ATV multiplexing idea to share one frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-26 07:14:09 UTC
From: wb8elk@aol.com
Topic: 1298 Message: 1370

Hi Mike,

I currently have my ATV payload set for transmitting on ODD minutes and OFF on EVEN minutes.....if you can set yours up for EVEN minutes we can share 426.25...I'm keying off the GPS timestamp. It doesn't matter if the Basic Stamp is off some...we'll just have a bit of overlap is all.

73s de Bill WB8ELK

1371. Re: [GPSL] GPSL forecast, 25 Jun

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 04:28:33 UTC
From: wb8elk@aol.com
Topic: 1366 Message: 1371

Hi Mark,

I just ran a flight prediction based on the GFS 138 hour forecast....getting close enough for a fair prediction now. Based on 1000 ft/min ascent and 1300 ft/min descent (sea level)....the downrange would be 55 miles at a 110 degree bearing from the launchsite. Going higher puts it a couple miles west and lower burst would put it a few miles further east.

73s de Bill WB8ELK

1372. EOSS-92 GPSL 05 Payload Plan(s)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 04:26:29 UTC
From: Mike Manes
Topic: 1372 Message: 1372
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,

The subject plan(s) are attached as a Word97 .doc file.

Assuming that WB8ELK and EOSS can TDM 426.25 MHz at 60s / 60s intervals,
then our primary plan goes, else we do the secondary. I'll bring out
both options.

73 de Mike
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1373. Re: [GPSL] GPSL forecast, 25 Jun

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 05:37:23 UTC
From: Mike Manes
Topic: 1366 Message: 1373

Hmmm .. pretty long legs for a summer flight ....
73 de Mike W5VSI

wb8elk@... wrote:
>
> Hi Mark,
>
> I just ran a flight prediction based on the GFS 138 hour
> forecast....getting close enough for a fair prediction now. Based on
> 1000 ft/min ascent and 1300 ft/min descent (sea level)....the
> downrange would be 55 miles at a 110 degree bearing from the
> launchsite. Going higher puts it a couple miles west and lower burst
> would put it a few miles further east.
>
> 73s de Bill WB8ELK
>
> --
> Yahoo! Groups Links
>
> * To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1374. Re: [GPSL] ATV multiplexing idea to share one frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 04:48:41 UTC
From: Mike Manes
Topic: 1298 Message: 1374

Hi Bill,

Don't have GPS in the ATV module, but I can power up mine on cue from you, and it'll start the BSC1 timing loop (+/- 1 sec) about 2 sec later. I can truncate my QRV time to under 60 sec, if that'll avoid some QRM, but agree that a little won't hurt.

73 de Mike W5VSI

Blasted AOL and their bandwidth-hoggin' proprietary html fonts!!
Gotta cut & paste to make ur email echo ..

Bill Brown wrote"

Hi Mike,

I currently have my ATV payload set for transmitting on ODD minutes and OFF on EVEN minutes.....if you can set yours up for EVEN minutes we can share 426.25...I'm keying off the GPS timestamp. It doesn't matter if the Basic Stamp is off some...we'll just have a bit of overlap is all.

73s de Bill WB8ELK
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1375. RE: [GPSL] Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 15:37:02 UTC
From: PAUL VERHAGE
Topic: 1367 Message: 1375

Will anyone have a laptop with Tiny Track software?

I'm in the process of teaching a balloonsat class and movin g into a house. I may n ot have time to reprogram my TT.

Paul

>>> n9xtn@... 06/25/05 3:26 PM >>>
That's fine - I'll adjust the web page shortly.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of jerometonneson
Sent: Saturday, June 25, 2005 16:20
To: GPSL@yahoogroups.com
Subject: [GPSL] Time slot adjustment

Mark/Don: Nick and I are working on the KA0JLF-12 HABITAT/Skylab package. Would it be possible to move this one to the 10-19 second slot on .36? That would permit both of the 2-meter KA0JLF APRS systems (which may be on different balloons) to be tracked easier.

-Jerome
W0JRT

Yahoo! Groups Links

Yahoo! Groups Links

1376. RE: [GPSL] Launch site layouts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 15:40:46 UTC
From: Holmes, Will
Topic: 1359 Message: 1376

Will there be acess to AC at the launch site? We have a Portable Ground Station that we would like plug into AC. I am not sure the amperage needed, but it will run three computers, monitors and two 1 W radios.

Thanks,

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of n9xtn@...
Sent: Friday, June 24, 2005 4:29 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Launch site layouts

Attached is a notional launch site layout for Wahoo and Treynor. I've provided about 25 meters of spacing between groups. I did not place the Grosse Point Academy tetroon because I'm not familiar with his needs for space.

At Treynor, you can just see the fences around the ball diamonds. There is a larger open area south of where WB8ELK and HABITAT are stationed.

At Wahoo, the fence around the football field/running track comes relatively close to the parking lot on the northeast side. It is open around the south end of the track back to the west. There are some relatively small trees south of WB8ELK's position, and the parking lot light posts (4-5) are along the edges of the parking lot.

On some pictures I took at Treynor in 2001, there is an above-ground fuel tank near the WB8ELK/HABITAT positions that is not in the satellite image. So there may be a few adjustments that morning.

I'll have signs to mark everyone's launch position, so just look for those on arrival.

73 de Mark N9XTN

Yahoo! Groups Links

* To visit your group on the web, go to:
http://groups.yahoo.com/group/GPSL/

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service <http://docs.yahoo.com/info/terms/> .

1377. RE: [GPSL] Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 17:18:43 UTC
From: David Hoffman
Topic: 1367 Message: 1377

I will be bringing a laptop with all three of the TinyTrak config files available.

David Hoffman - KE4FGW

>
>
>
>
> Will anyone have a laptop with Tiny Track software?
>
> I'm in the process of teaching a balloonsat class and movin g into a
> house. I may n ot have time to reprogram my TT.
>
> Paul
>
>
>
>
>
>
>
>

1378. Re: [GPSL] Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 18:33:41 UTC
From: Harry M
Topic: 1367 Message: 1378

Hi Paul,

I will have the TT software & cable with me.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons

> Will anyone have a laptop with Tiny Track software?

1379. RE: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 18:34:06 UTC
From: David Hoffman
Topic: 1340 Message: 1379

Well I spoke too soon. They messed up my order. My daughter's name is on both of my shirts that I ordered. They didn't make one with my name on it. I checked my order and it was placed correctly. Anybody got a telephone number to these folks? It was zazzle.com

David Hoffman - KE4FGW

>
>
>
>
> Me too! looks great.
>
> David Hoffman - KE4FGW
>
> reached. I may yet...
> < >
> < >
> < >
> < > - Mark
> < >
> < >
> < >
> < > _____
> < >
> < > From: GPSL@yahoogroups.com
> < > [mailto:GPSL@yahoogroups.com] On Behalf Of Mark
> < > Conner
> < > Sent: Wednesday, June 22, 2005 21:42
> < > To: GPSL@yahoogroups.com
> < > Subject: RE: [GPSL] GPSL 2005 t-shirts
> < >
> < >
> < >
> < > Below and to the right of the "Great Plains Super
> < > Launch" apparel, there are
> < > four buttons, one of which is "Customize". This
> < > should let you add or
> < > delete anything you wish.
> < >
> < >
> < >
> < > - Mark
> < >
> < >

> < >
> < > _____
> < >
> < > From: GPSL@yahoogroups.com
> < > [mailto:GPSL@yahoogroups.com] On Behalf Of Harry
> < > M
> < > Sent: Wednesday, June 22, 2005 21:36
> < > To: GPSL@yahoogroups.com
> < > Subject: Re: [GPSL] GPSL 2005 t-shirts
> < >
> < >
> < >
> < >
> < >
> < > Looks good Mark! Where is the CUSTOMIZE option?
> < >
> < >
> < >
> < > I would rather see "GREAT PLAINS SUPER LAUNCH 2005"
> < >
> < > on the back rather than all the pevious years.
> < >
> < >
> < >
> < >
> < >
> < > _____
> < >
> < > Yahoo! Groups Links
> < >
> < > * To visit your group on the web, go to:
> < > http://groups.yahoo.com/group/GPSL/
> < >
> < > * To unsubscribe from this group, send an email to:
> < > GPSL-unsubscribe@yahoogroups.com
> <
> mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribehttp://docs.yahoo.com/info/te
rms/>
> < Terms of
> < > Service.
> < >
> < >
>

1380. RE: [GPSL] Time slot adjustment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 18:45:48 UTC
From: PAUL VERHAGE
Topic: 1367 Message: 1380

Thanks, it's getting pretty busy here.

Paul

>>> ke4fgw@... 06/27/05 11:18 AM >>>
I will be bringing a laptop with all three of the TinyTrak config files
available.

David Hoffman - KE4FGW

>
>
>
>
> Will anyone have a laptop with Tiny Track software?
>
> I'm in the process of teaching a balloonsat class and movin g into a
> house. I may n ot have time to reprogram my TT.
>
> Paul
>
>
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Yahoo! Groups Links

1381. Re: RE: [GPSL] GPSL 2005 t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-27 19:55:55 UTC
From: n9xtn@cox.net
Topic: 1340 Message: 1381

I don't have a phone number, but there may be one on their website. They do have a "defective returns" policy posted, and I would assume a botched order would constitute a defect.

- Mark

----- Original Message -----
From: "David Hoffman" <ke4fgw@...>
Date: Monday, June 27, 2005 1:34 pm
Subject: RE: [GPSL] GPSL 2005 t-shirts

> Well I spoke too soon. They messed up my order. My daughter's
> name is on
> both of my shirts that I ordered. They didn't make one with my
> name on
> it. I checked my order and it was placed correctly. Anybody got a
> telephone number to these folks? It was zazzle.com
>
> David Hoffman - KE4FGW
>

1382. Re: [GPSL] Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 02:20:23 UTC
From: Mark Garrett
Topic: 1310 Message: 1382
Attachments: 1 described; binary payloads are missing from this source WARC

Add one more for WB8ELK's group. 1/1

Mark Garrett
KA9SZX

>Please add 2/2 to WB8ELK's figures for myself and my daughter.
>
>David Hoffman - KE4FGW
>
> >
> >
> >
> > Everyone,
> > In order to make sure the UNO food court and the China One buffet are
> > prepared to host us for lunch and dinner on Friday, we need to provide
> > firmer attendance numbers than we have at the moment. Below is the latest
> > we have. If your group has changes, or is not listed, please let me know
> > your expected numbers.
> > Group Lunch/Dinner
> > CAP-N-SPACE: ?/?CNNSP: 5/5EOSS:
> > 13/13GPA: 2/2HABITAT: ?/?MECSAT:
> > ?/?ORB: ?/?Traveler: 1/?Taylor Univ:
> > ?/?KD4STH: 1/1
> > WB8ELK: 1/1Iowa State ?/?KU ?/?
> > For NSTAR, let me know if you plan to attend the conference (with lunch)
> > and/or the Friday night dinner.
> > 73 de Mark N9XTN
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> >
> >
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> >
> > Yahoo! Groups Links
> >
> > To visit your group on the web, go
> to:<http://groups.yahoo.com/group/GPSL/>http://groups.yahoo.com/group/GPSL/
> > To unsubscribe from this group, send an email
> > to:GPSL-unsubscribe@yahoogroups.com
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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>Yahoo! Groups Links
> * To visit your group on the web, go to:
> *
> <http://groups.yahoo.com/group/GPSL/>http://groups.yahoo.com/group/GPSL/
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.0.322 / Virus Database: 267.6.6 - Release Date: 6/8/2005

1383. RE: [GPSL] Updates for GPSL attendance

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 03:10:49 UTC
From: Marty Griffin
Topic: 1310 Message: 1383

Add one for EOSS, John Dinneen, K5JFD, 1/1
- Marty Griffin

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Garrett
Sent: Monday, June 27, 2005 7:20 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Updates for GPSL attendance

Add one more for WB8ELK's group. 1/1

Mark Garrett
KA9SZX

Please add 2/2 to WB8ELK's figures for myself and my daughter.

David Hoffman - KE4FGW

>
>
>
> Everyone,
> In order to make sure the UNO food court and the China One buffet are
> prepared to host us for lunch and dinner on Friday, we need to provide
> firmer attendance numbers than we have at the moment. Below is the latest
> we have. If your group has changes, or is not listed, please let me know
> your expected numbers.
> Group Lunch/Dinner
> CAP-N-SPACE: ?/?CNNSP: 5/5EOSS:
> 13/13GPA: 2/2HABITAT: ?/?MECSAT:
> ?/?ORB: ?/?Traveler: 1/?Taylor Univ:
> ?/?KD4STH: 1/1
> WB8ELK: 1/1Iowa State ?/?KU ?/?
> For NSTAR, let me know if you plan to attend the conference (with lunch)
> and/or the Friday night dinner.
> 73 de Mark N9XTN
>
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>
> Yahoo! Groups Links

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> To visit your group on the web, go to:http://groups.yahoo.com/group/GPSL/
> To unsubscribe from this group, send an email
> to:GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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Yahoo! Groups Links

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*

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* GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

*

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.322 / Virus Database: 267.6.6 - Release Date: 6/8/2005

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on
the web.

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

_____

1384. EOSS contingent shrinks further

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 05:25:59 UTC
From: Mike Manes
Topic: 1384 Message: 1384

Hi Mark,
Jim KC0RPS can't make it. EOSS is now 9 + 2.
73 de Mike W5VSI

BTW, for the group that needs AC power - how about a generator?
EOSS has a 1 KW Honda, but I sure don't wanna haul it all the way
from Denver in Rick's Lexus!

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1385. Launch day driving.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 12:27:15 UTC
From: allen WK0Q
Topic: 1385 Message: 1385

Hello all,
I'm thinking about driving up sat. morning from near Bethany MO for the launch, is any one else driving through around that time?? I have almost all bands available for chit chat along the way. I don't relish
driving that far so early in the morning, but you know how schedules go. Anyhow I'll be watching from here if I'm not there :-)

Allen WK0Q

1386. Re: [GPSL] EOSS contingent shrinks further

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 12:39:41 UTC
From: Chris Krengel
Topic: 1384 Message: 1386

Ya know Mike, I could put in the truck if you need it.
Chris kb0yrz

--- Mike Manes <manes@...> wrote:

> Hi Mark,
> Jim KC0RPS can't make it. EOSS is now 9 + 2.
> 73 de Mike W5VSI
>
> BTW, for the group that needs AC power - how about a
> generator?
> EOSS has a 1 KW Honda, but I sure don't wanna haul
> it all the way
> from Denver in Rick's Lexus!
>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1387. RE: [GPSL] EOSS contingent shrinks further

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 13:10:33 UTC
From: Doug, KAØO
Topic: 1384 Message: 1387

I have contacted the group directly and if they want, I have a generator
that needs exercise. No need to haul one in!

~~Doug, KA?O
-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Chris
Krengel
Sent: Tuesday, June 28, 2005 7:40 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] EOSS contingent shrinks further

Ya know Mike, I could put in the truck if you need it.
Chris kb0yrz

--- Mike Manes <manes@...> wrote:

> Hi Mark,
> Jim KC0RPS can't make it. EOSS is now 9 + 2.
> 73 de Mike W5VSI
>
> BTW, for the group that needs AC power - how about a
> generator?
> EOSS has a 1 KW Honda, but I sure don't wanna haul
> it all the way
> from Denver in Rick's Lexus!
>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
>
>
>

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--
YAHOO! GROUPS LINKS

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--

--
No virus found in this outgoing message.
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Version: 7.0.323 / Virus Database: 267.8.5/32 - Release Date: 6/27/2005

1388. Launch site AC Power

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 14:32:50 UTC
From: Doug, KAØO
Topic: 1384 Message: 1388

For those of you attending the launch, there will be a 5600 watt generator on site Saturday. This will provide power for the portable ground site that Taylor Univ is bringing. Anyone else needing power that day is welcome to tap into it.

Doug Eubanks, KA?O
NSTAR
--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.5/32 - Release Date: 6/27/2005

1389. RE: [GPSL] Launch site AC Power

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 15:09:41 UTC
From: Holmes, Will
Topic: 1384 Message: 1389

Doug,

Thanks for offering to help us out with this.

Everyone,

We will bring a portable ground station with 3 or four computers and some radios to track the balloons from the launch site. We put this trailer together in the past year, and now we can't think of doing a launch without it. One of the things we would like to do is track all the balloons from the launch site, however we do not have enough radio equipment to do this. We would like to borrow a radio and TNC so that we can receive the beacons from balloons. Our trailer currently has one radio and TNC in it, but we are using these to track our experiment on 146.54. We will have a dedicated computer and monitor for tracking the balloons.

Thanks,

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Doug, KAØO
Sent: Tuesday, June 28, 2005 9:33 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Launch site AC Power

For those of you attending the launch, there will be a 5600 watt generator on site Saturday. This will provide power for the portable ground site that Taylor Univ is bringing. Anyone else needing power that day is welcome to tap into it.

Doug Eubanks, KAØO

NSTAR

YAHOO! GROUPS LINKS

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* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

1390. Taylor Payloads

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 16:03:52 UTC
From: Holmes, Will
Topic: 1390 Message: 1390

After reading EOSS's payload plan I thought I would put up a quick summary of our experiments.

Command POD

900 MHZ Radio with downlink of GPS Tracking and Telemetry Data. This data includes temperature, pressure, altitude and vertical rate. The command pod also as the ability to read analog and digital voltages from the other pods in the BalloonSat string.

TUSAT1 POD

This box will contain a test of the amateur radio system for TUSAT1, our CubeSat that is under development. It contains a Kenwood TH-D7 radio with integrated TNC and a Texas Instruments MSP430 microcontroller. We will test our ability to receive the beacon coming from the balloon and our ability to execute commands through this interface. Part of the test will be changing wiper positions on digital pots. Successful execution of this command will be read by an analog voltage feed to the command pod and fed live to the portable ground station.

Tiny Track

This will be our first flight for the Tiny track module. It will be in the 30 - 39 second slot on 144.39.

VLF Receiver

This experiment will include a VLF receiver. The audio from this will be recorded on a commercial off the shelf digital 8 video camera. This camera will also give us a video of the flight.

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Sunday, June 26, 2005 11:26 PM
To: Mark Conner N9XTN; Ralph Wallio, W0RPK; GPSL Reflector

Subject: [GPSL] EOSS-92 GPSL 05 Payload Plan(s)

Hi,

The subject plan(s) are attached as a Word97 .doc file.

Assuming that WB8ELK and EOSS can TDM 426.25 MHz at 60s / 60s intervals, then our primary plan goes, else we do the secondary. I'll bring out both options.

73 de Mike
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on the web.

* To unsubscribe from this group, send an email to: GPSL-unsubscribe@yahoogroups.com <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service <http://docs.yahoo.com/info/terms/> .

1391. GPSL forecast update, 28 June

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 19:18:13 UTC
From: n9xtn@cox.net
Topic: 1391 Message: 1391
Attachments: 6 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1392. Western Iowa linked repeater system

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 19:46:45 UTC
From: n9xtn@cox.net
Topic: 1392 Message: 1392
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1393. Re: [GPSL] Launch site AC Power

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 20:52:55 UTC
From: PAUL VERHAGE
Topic: 1384 Message: 1393

Why in my day, we had to rub a cat with a wool blanket to get electricity on site. You people have it easy!

Paul

>>> ka0o@... 06/28/05 8:32 AM >>>
For those of you attending the launch, there will be a 5600 watt generator on site Saturday. This will provide power for the portable ground site that Taylor Univ is bringing. Anyone else needing power that day is welcome to tap into it.

Doug Eubanks, KAØO
NSTAR
--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.5/32 - Release Date: 6/27/2005

1394. RE: [GPSL] Launch site AC Power

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-28 22:17:30 UTC
From: Doug, KAØO
Topic: 1384 Message: 1394

Just goes to show that some of us have made progress! Not to mention what you looked like after the cat got done with ya!

~~Doug
-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of PAUL VERHAGE
Sent: Tuesday, June 28, 2005 3:53 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Launch site AC Power

Why in my day, we had to rub a cat with a wool blanket to get electricity on site. You people have it easy!

Paul

>>> ka0o@... 06/28/05 8:32 AM >>>
For those of you attending the launch, there will be a 5600 watt generator on site Saturday. This will provide power for the portable ground site that
Taylor Univ is bringing. Anyone else needing power that day is welcome to tap into it.

Doug Eubanks, KA?O
NSTAR
--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.5/32 - Release Date: 6/27/2005

--
YAHOO! GROUPS LINKS

a.. Visit your group "GPSL" on the web.

b.. To unsubscribe from this group, send an email to:
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--

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.

Version: 7.0.323 / Virus Database: 267.8.5/32 - Release Date: 6/27/2005

1395. Re: [GPSL] EOSS contingent shrinks further

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 01:42:27 UTC
From: Mike Manes
Topic: 1384 Message: 1395

Thanks Chris,
It appears that there'll be a 5 KW gen on site. Never mind!
73 de Mike W5VSI

Chris Krengel wrote:
>
> Ya know Mike, I could put in the truck if you need it.
> Chris kb0yrz
>
> --- Mike Manes <manes@...> wrote:
>
> > Hi Mark,
> > Jim KC0RPS can't make it. EOSS is now 9 + 2.
> > 73 de Mike W5VSI
> >
> > BTW, for the group that needs AC power - how about a
> > generator?
> > EOSS has a 1 KW Honda, but I sure don't wanna haul
> > it all the way
> > from Denver in Rick's Lexus!
> >
> > --
> > Mike Manes manes@... Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but
> > not more so." A.
> > Einstein
> >
> >
> >
>
> _____
> Do You Yahoo!?
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> http://mail.yahoo.com
>
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> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

1396. Re: [GPSL] GPSL forecast update, 28 June

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 04:26:58 UTC
From: Mike Manes
Topic: 1391 Message: 1396

Hi Mark,

Could you site EOSS and WB8ELK adjacent? We have to coordinate ATV
power
up for our TDM scheme on 426.25 MHz, and acoustic comms may be the
simplest
scheme. BTW, if Bill and I can sync up clean, EOSS's primary payload
plan is a go.

Also, if southery sfc winds develop, any way we could fill & launch from
the lee of the HS bldg? Planning all 10 balloons ready to fly
simultaneously at 0830 is an open invite to Murphy - would be nice to
have a sheltered "parking spot" for full balloons awaiting the 'LAUNCH'
command.

BTW, how's the XYL and harmonic doing?

73 de Mike W5VSI

n9xtn@... wrote:
>
> It's too bad we aren't flying Friday morning, as I believe conditions will be ideal then with calm conditions and partly cloudy skies. On Saturday the surface winds will be from the south at 5-8 mph initially, increasing to 10-15 mph as the morning progresses. Again, we should strive to get the balloons off the ground as close to 8:30am as possible. I'm 90% sure we'll be using Treynor.
>
> Sunday will be worse for winds, so that's not an option.
>
> Morning temps on both days should be in the mid 60s. Friday's high will be in the mid 80s and Saturday's high about 90.
>
> The forecast landings remain in a favorable area. Using a nominal 1000 ft/min for ascent and sea-level descent rates, an 85,000 ft burst will land about 7 miles east of Grant, IA. Balloons going to 105 kft will land farther west near Grant itself (a small town about five blocks square). Most of this area is pretty open, with trees mostly confined to the banks the creeks and small rivers in the area.
>
> Attached are some pictures of the Treynor launch site. The satellite photo shows the positions I have for everyone. The other four are frame captures from a video we took on a 2001 flight that was launched from near where the "CAP" label is on the satellite photo. CAP003 and CAP004 are looking south. CAP005 looks east towards the corner where Taylor Univ and EOSS will be located. CAP006 looks more northeast and shows that an addition to the school was added to the east side that's not shown in the satellite photo. I believe there are no power lines between the poles in the parking lot or the ball diamonds.
>

> Depending on where the school buses are parked, we might have to do a little shuffling Saturday morning.
>
> Park any "extra" vehicles in the yellow areas on the map if possible, so that if we have to use the parking lot itself to launch the balloons, we can.
>
> 73 de Mark N9XTN
>
>
> Yahoo! Groups Links
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>
>
> --
> Name: treynor.jpg
> treynor.jpg Type: JPEG Image (image/pjpeg)
> Encoding: base64
>
> Name: cap006.jpg
> cap006.jpg Type: JPEG Image (image/pjpeg)
> Encoding: base64
>
> Name: cap005.jpg
> cap005.jpg Type: JPEG Image (image/pjpeg)
> Encoding: base64
>
> Name: cap004.jpg
> cap004.jpg Type: JPEG Image (image/pjpeg)
> Encoding: base64
>
> Name: cap003.jpg
> cap003.jpg Type: JPEG Image (image/pjpeg)
> Encoding: base64

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1397. Re: [GPSL] GPSL forecast update, 28 June

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 13:47:04 UTC
From: n9xtn@cox.net
Topic: 1391 Message: 1397
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1398. RE: [GPSL] GPSL forecast update, 28 June

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 13:44:11 UTC
From: Rochte, Robert
Topic: 1391 Message: 1398

Are surface winds pretty much inevitable? If so, then the solar tetroon probably won't fly - I need calm conditions or it's a no-go (without helium, anyway, and that really spoils the fun).

>
>If the winds are from the south, the sheltered area would be
>on the north side of the school (top of satellite image) and
>is not very large or that suitable. I believe there are power
>lines along Hwy 92 (east-west road at top) and there are more
>trees now than the image shows. At best, we could get one group there.
>
>When I file the NOTAM, I'll indicate we'll launch between 8:15
>and 9:15 am. If it gets too breezy to hold for a group
>launch, I think we should just have everyone launch when
>ready. Since we're flying exempt, the NOTAM is not required.
>We still plan to announce on CTAF.
>
>We may also consider a "ripple" launch if it's breezy enough
>to be concerned with balloons tangling during the initial
>ascent. The downwind (north) balloons would launch first,
>then moving north to south at intervals of a few seconds.
>
>I have EOSS between WB8ELK and Traveler now (attached).
>Traveler should have about 40 cu ft of helium after their fill
>to top you off. WB8ELK might have some also. I'll also
>position an already-open tank at your position so anyone down
>there needing more helium can get it.
>
>Will anyone else be needing more than 1 T-tank (291 cu ft) for
>their balloon? Paul KD4STH, I believe you said you'd need a
>little more than 291. NSTAR/CNNSP should have some left.
>
>I also moved Taylor to the easternmost spot by the school.
>This should provide a good area to put your trailer and
>generator nearby (the layout is a little different than the
>satellite image shows). It's also the most isolated from the
>houses in the area.
>
>Shari and Amy are doing fine. They might come out for the
>launch if everyone gets enough sleep Friday night. Amy will
>have her GPSL shirt on if she does.
>
>73 de Mark N9XTN
>
>

>----- Original Message -----
>From: Mike Manes <manes@...>
>Date: Tuesday, June 28, 2005 11:26 pm
>Subject: Re: [GPSL] GPSL forecast update, 28 June
>
>> Hi Mark,
>>
>> Could you site EOSS and WB8ELK adjacent? We have to coordinate ATV
>> power
>> up for our TDM scheme on 426.25 MHz, and acoustic comms may be the
>> simplest
>> scheme. BTW, if Bill and I can sync up clean, EOSS's primary payload
>> plan is a go.
>>
>> Also, if southery sfc winds develop, any way we could fill &
>> launch from
>> the lee of the HS bldg? Planning all 10 balloons ready to fly
>> simultaneously at 0830 is an open invite to Murphy - would be nice
>> to
>> have a sheltered "parking spot" for full balloons awaiting the
>> 'LAUNCH'
>> command.
>>
>> BTW, how's the XYL and harmonic doing?
>>
>> 73 de Mike W5VSI
>>
>
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>Yahoo! Groups Links
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1399. Western Iowa in the summer

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 14:08:36 UTC
From: n9xtn@cox.net
Topic: 1399 Message: 1399

For those of you coming from well outside of the area, here are a couple of things to consider for your packing, dress, and driving on Saturday:

1) Much of the target area is in corn, which in general is about six feet high right now. Most of the roads are on a one-mile grid, so your payload could be a half-mile into the corn (as the crow flies). However, the corn is usually planted in rows across the terrain's fall line to prevent erosion (i.e., not on a grid). This can make plotting the path of least resistance to your payload difficult. Make sure you have a handheld GPS with you and punch in the coordinates of the payload before you set off. Also bring an HT for your hike. You'll probably get a bit dirty walking through the corn too, so it may be useful to bring an old long-sleeve shirt along (keeps the corn leaves from irritating you also).

a) There are also some areas in soybeans (easy) and cattle pasture (easy if no cows).

2) You may encounter a "minimum maintenance" or "service level B" road between you and your target. The level of maintenance varies, but generally seems to be limited to ensuring no large trees are growing in the roadway. Vehicles with low ground clearance may have problems getting high-centered on deeper ruts, and if it's muddy all-wheel drive may be necessary. Normally it's not necessary to use these roads to get to your payload.

3) Quite a few gravel roads in the area too. Use caution when in convoy and allow plenty of following distance as your visibility to the vehicle in front is obscured. Also, it's good practice for the lead vehicle in the convoy to announce oncoming traffic or sudden stops to those behind.

73 de Mark N9XTN

1400. Re: RE: [GPSL] GPSL forecast update, 28 June

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 14:29:20 UTC
From: n9xtn@cox.net
Topic: 1391 Message: 1400

I wouldn't say "inevitable" 72 hours out, but it's pretty likely we'll have 5-10 mph. If you were to get out there at dawn (5:30ish) you might have calm enough conditions, but then you'd have no sun for heating.

This morning's forecasts are showing 20-25 mph just above the surface (500 ft AGL), but a solid inversion that's not forecast to break until about 10am. Trouble is, Treynor is near the top of a ridge and may actually poke up into that windier layer. On previous NSTAR flights I've seen the flags snapping in a 15-mph breeze while our launch site closer to a valley had calm conditions. Sunday is looking worse than Saturday.

We could try to go very early (sunrise 5:54am, arrive at 6, launch at 7:30) and have a better shot at avoiding more of the wind. We can discuss this more at the weather briefing Friday when we'll have a better handle on what to expect.

73 de Mark N9XTN

----- Original Message -----
From: "Rochte, Robert" <rrochte@...>
Date: Wednesday, June 29, 2005 8:44 am
Subject: RE: [GPSL] GPSL forecast update, 28 June

>
> Are surface winds pretty much inevitable? If so, then the solar
> tetroonprobably won't fly - I need calm conditions or it's a no-go
> (without helium,
> anyway, and that really spoils the fun).
>
> >

1401. Helium on hand

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 15:56:45 UTC
From: n9xtn@cox.net
Topic: 1401 Message: 1401

Linweld delivered the helium about 45 minutes ago (a day early, but what the heck). So I now have 18 full tanks and 1 partial (90%) tank in my garage. At least 16 will come out to the launch site.

73 de Mark N9XTN

1402. GPSL & FindU

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 20:52:42 UTC
From: Harry M
Topic: 1402 Message: 1402

I may have missed the thread on this, but I was wondering
if the flights on 144.360 will be getting to FindU?

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1403. Re: [GPSL] GPSL & FindU

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 21:22:10 UTC
From: n9xtn@cox.net
Topic: 1402 Message: 1403

144.36 will be gated by KE6DZD in Bellevue NE. 144.34 will be gated by my home station, also in Bellevue. 144.39 will be picked up by several stations in the area (K0HAM-2 in Mondamin IA, N0BKB in Greenfield IA, probably an Omaha station too).

73 de Mark N9XTN

----- Original Message -----
From: "Harry M" <hhm_74115@...>
Date: Wednesday, June 29, 2005 3:52 pm
Subject: [GPSL] GPSL & FindU

>
> I may have missed the thread on this, but I was wondering
> if the flights on 144.360 will be getting to FindU?
>
>

1404. Re: [GPSL] GPSL & FindU

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 21:35:10 UTC
From: Harry M
Topic: 1402 Message: 1404

Thank you Mark!

73-hm

1405. Forecast update, 29 June

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-29 22:49:55 UTC
From: Mark Conner
Topic: 1405 Message: 1405

I think our biggest concern for Saturday will be how soon the surface winds pick up after sunrise. By 10-11am, we should have gusts to 25 mph out of the south. The landing forecasts still look pretty reasonable. A 105kft burst should land about 8 miles east of Grant, IA, while a lower burst at 85 kft will land another 8 miles farther east (6 mi S of Bridgewater, IA). This is between 40 and 50 miles away from the launch site, on a bearing of 095. This will probably be on the eastern fringe of the linked repeater system too.

73 de Mark N9XTN

1406. Forecast update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-06-30 19:55:11 UTC
From: Mark Conner
Topic: 109 Message: 1406

Looks to be partly cloudy and dry through Saturday afternoon. Winds Saturday morning will be out of the south at 5-10 mph, increasing to 25 mph by noon. Morning lows should be in the low 60s, Friday's high in the low 80s, and near 90 on Saturday. I'm still a little concerned that the winds could increase sharply Saturday morning, perhaps before we're ready.

There is some variation in the direction from Treynor for the landings, between 90 and 115 degrees but still in the 35-45 mile range. This is east of US 71 and south of Hwy 92. The farthest south I've seen the predictions has been 5-6 miles northwest of Corning.

Should you need to make use of gas stations along the way, there are a couple in Griswold and one on the north side of Massena on 92. Otherwise you won't find much in our landing areas.

I'll be monitoring 145.115- and 443.775+ when I can today.

73 de Mark N9XTN

1407. Re: [GPSL] Helium on hand

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-01 02:13:05 UTC
From: Don KA0JLF
Topic: 1401 Message: 1407

Mark, dad is having another procedure tomorrow, so
Cris and I wont' be able to make GPSL this year.

There are about 5 or 6 from HABITAT SkyLab that will
be there an launch. Only one balloon at GPSL this
year. Jerome, Nick, Larry and Steve (and his XYL)
should be there and handle the HABITAT SkyLab launch.
You have emailed Jerome. Please give the helium to
them for the flight.

The rest of us that can't make it to GPSL 05 will try
to monitor/track from here.

73 and best of flights to everyone!!!

Don

--- n9xtn@... wrote:

> Linweld delivered the helium about 45 minutes ago (a
> day early, but what the heck). So I now have 18
> full tanks and 1 partial (90%) tank in my garage.
> At least 16 will come out to the launch site.
>
> 73 de Mark N9XTN

_____
Yahoo! Sports
Rekindle the Rivalries. Sign up for Fantasy Football
http://football.fantasysports.yahoo.com

1408. RE: [GPSL] Helium on hand

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-01 02:16:43 UTC
From: Mark Conner
Topic: 1401 Message: 1408

Hi Don,

Sorry you won't be able to make it this year. Hope all goes well with the procedure tomorrow.

I'll get the helium to the group.

73 de Mark N9XTN

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Don KA0JLF
Sent: Thursday, June 30, 2005 21:13
To: GPSL@yahoogroups.com; HABITAT_SkyLab@yahoogroups.com
Subject: Re: [GPSL] Helium on hand

Mark, dad is having another procedure tomorrow, so
Cris and I wont' be able to make GPSL this year.

There are about 5 or 6 from HABITAT SkyLab that will
be there an launch. Only one balloon at GPSL this
year. Jerome, Nick, Larry and Steve (and his XYL)
should be there and handle the HABITAT SkyLab launch.
You have emailed Jerome. Please give the helium to
them for the flight.

The rest of us that can't make it to GPSL 05 will try
to monitor/track from here.

73 and best of flights to everyone!!!

Don

--- n9xtn@... wrote:

> Linweld delivered the helium about 45 minutes ago (a
> day early, but what the heck). So I now have 18
> full tanks and 1 partial (90%) tank in my garage.
> At least 16 will come out to the launch site.
>
> 73 de Mark N9XTN

_____
Yahoo! Sports
Rekindle the Rivalries. Sign up for Fantasy Football
http://football.fantasysports.yahoo.com

Yahoo! Groups Links

1409. Re: [GPSL] Helium on hand

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-01 02:31:25 UTC
From: Zack Clobes
Topic: 1401 Message: 1409

Sorry to hear that you won't be up here. I guess it's about time for us
to get together in Herrington again...

Take care
Zack

Don KA0JLF wrote:

>Mark, dad is having another procedure tomorrow, so
>Cris and I wont' be able to make GPSL this year.
>
>There are about 5 or 6 from HABITAT SkyLab that will
>be there an launch. Only one balloon at GPSL this
>year. Jerome, Nick, Larry and Steve (and his XYL)
>should be there and handle the HABITAT SkyLab launch.
>You have emailed Jerome. Please give the helium to
>them for the flight.
>
>The rest of us that can't make it to GPSL 05 will try
>to monitor/track from here.
>
>73 and best of flights to everyone!!!
>
>Don
>
>
>--- n9xtn@... wrote:
>
>
>
>>Linweld delivered the helium about 45 minutes ago (a
>>day early, but what the heck). So I now have 18
>>full tanks and 1 partial (90%) tank in my garage.
>>At least 16 will come out to the launch site.
>>
>>73 de Mark N9XTN
>>
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>
>_____
>Yahoo! Sports

>Rekindle the Rivalries. Sign up for Fantasy Football
>http://football.fantasysports.yahoo.com
>
>
>
>Yahoo! Groups Links
>
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1410. Friday morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-01 10:53:45 UTC
From: Mark Conner
Topic: 1410 Message: 1410

The conference will be held in Roskens Hall, Pod C, which is on the lower level. I have not been to the room myself.

I plan to get to Roskens at 0745 this morning. If possible, I will post orange signs to indicate where to go. I'll also have my HT on 443.775- for talk-in assistance.

Plan to use the parking garage on 60th St just south of Dodge. It is best if you take 72nd St north to Dodge, then go east to 60th and take a right. Going north on 60th will not get you to the campus very easily - the street ends at the south edge of campus and you have to go through a park and such. If there's an attendant at the garage, tell them you are attending the Super Launch conference at the Aviation Institute.

73 de Mark N9XTN

1411. Re: [GPSL] Friday morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-01 13:20:38 UTC
From: Gene Harlan
Topic: 1410 Message: 1411

Everyone have fun this weekend. I will be listening for any signals coming this way (Rockford, IL).

If anyone has any pictures to share with comments, names, etc., please forward to ATVQ@... as soon as you possibly can. The Summer issue is being put together starting now.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: Mark Conner
To: GPSL@yahoogroups.com
Sent: Friday, July 01, 2005 5:53 AM
Subject: [GPSL] Friday morning

The conference will be held in Roskens Hall, Pod C, which is on the lower level. I have not been to the room myself.

I plan to get to Roskens at 0745 this morning. If possible, I will post orange signs to indicate where to go. I'll also have my HT on 443.775- for talk-in assistance.

Plan to use the parking garage on 60th St just south of Dodge. It is best if you take 72nd St north to Dodge, then go east to 60th and take a right. Going north on 60th will not get you to the campus very easily - the street ends at the south edge of campus and you have to go through a park and such. If there's an attendant at the garage, tell them you are attending the Super Launch conference at the Aviation Institute.

73 de Mark N9XTN

YAHOO! GROUPS LINKS

a.. Visit your group "GPSL" on the web.

b.. To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

1412. Treynor selected as launch site

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-02 01:39:58 UTC
From: Mark Conner
Topic: 1412 Message: 1412

We've officially selected Treynor as the launch site. Expecting 3-5 mph surface winds from the south in the morning. A final prediction will run shortly.

73 de Mark N9XTN

1413. Track forecast

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-02 01:48:53 UTC
From: Mark Conner
Topic: 1413 Message: 1413

Landings for a 105 kft burst is about 3 miles south of Grant, IA, not far from US71. The 85 kft burst is about 6 miles southeast of Grant, or 5-6 miles east of the 105 kft location.

There are thunderstorms in central Nebraska moving this way, but should die by early morning.

73 de Mark N9XTN

1414. Successful flights today

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-02 21:08:21 UTC
From: Mark Conner
Topic: 1414 Message: 1414

I believe everyone is going home with all their toys, even though there were some challenges. I couldn't stay at the restaurant past 3 due to family obligations, but a big thank you to all that participated.

Could someone from each group post a brief recap of their flight and recovery experience? I think there were a lot of interesting stories to tell. I'll have the NSTAR recap sometime tomorrow.

Wow, what a day. Ten flights launched from the same site within about 30 minutes of each other. We didn't hold for a group launch because of the increasing wind.

73 de Mark N9XTN

1415. Re: Successful flights today

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 01:14:14 UTC
From: jerometonneson
Topic: 1414 Message: 1415

Mark,

Thanks for doing a fine job at hosting GPSL. The HABITAT/Skylab crew
had a great time.

-Jerome
W0JRT

1416. Re: [GPSL] Successful flights today

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 02:42:35 UTC
From: Zack Clobes
Topic: 1414 Message: 1416

What is the status of the NY group? Do you have any website/contact
info for them?

Zack

Mark Conner wrote:

> I believe everyone is going home with all their toys, even though
> there were some challenges. I couldn't stay at the restaurant past 3
> due to family obligations, but a big thank you to all that participated.
>
> Could someone from each group post a brief recap of their flight and
> recovery experience? I think there were a lot of interesting stories
> to tell. I'll have the NSTAR recap sometime tomorrow.
>
> Wow, what a day. Ten flights launched from the same site within about
> 30 minutes of each other. We didn't hold for a group launch because
> of the increasing wind.
>
> 73 de Mark N9XTN
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

1417. Flight recap of Project: Traveler 2005b

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 03:32:57 UTC
From: Zack Clobes
Topic: 1417 Message: 1417

I haven't thoroughly reviewed logs yet, but based on some video that I downloaded to the laptop, our flight was approximately 8 minutes in duration, with a maximum altitude somewhere around 5k feet.

Our cutdown board that I've been working with utilizes a Linx RF transmitter chip to send either a heart-beat or cutdown command every minute from the main capsule. If the cutdown doesn't hear a heart-beat for 10 minutes, or if an actual cutdown signal is received, it will actual the hot wires. On the ground I've had mixed results, but I had it running for an hour at the launch site without problems.

We considered pulling the cutdown from the string, but decided that it appeared to be working, so it flew. The payload was released and appeared normal.

Jon and I were in no particular hurry to leave the school after launch. I was fooling around with the ATV recorder (which I quickly gave up on because I couldn't remember where I stuck my remote), and we had to coordinate simplex frequencies. We finally made it out on the highway headed towards Grant (near the predicted landing spot).

Jon soon calls on the radio reporting a problem with lack of packet data, and I confirm the problem with my tracker. At that point, we assumed that N9XTN's GPS failure message was walking over the top of us, not to mention KD4STH's sporadic packets (nudge, nudge). I reassured my copilot (my wife) that the reason that our altitude showed 1200 feet MSL was that we hadn't received any altitude packets since we lifted off.

We continued down the road about 20 miles (nearly to Grant) while I pondered how we would go about DF'ing our capsule with all of the other traffic on frequency. I asked Jon if he had any ideas, and he instead responded with some idea's on what to he wanted to do to "de F'ing" other capsules on frequency.

By this time I'm starting to put the story together in my head, and we pulled over and start looking at logs. Sure enough, the capsule was already on the ground, and about 15 miles behind us nonetheless. I was really hoping that we had somehow contacted another capsule, and it had ruptured our balloon, but I knew deep down that it was the cutdown that had done it.

We drove almost all of the way back to Treynor, and started picking up packets again. After a 1/5 mile walk out into a corn/soybean field, we found a capsule that had been cleanly cut away from an otherwise perfectly good balloon.

On the bright side, we do know that the cutdown works in the air, without catching the board or box on fire. The 123 Lithium batteries were still uncomfortably hot when we retrieved the payload nearly an hour after being fired, which means that we need to turn the cutters off after 20-30 seconds (it usually only takes about 5 seconds to burn through). We are one of the very few groups to have full motion recorded digital video from lift-off to touch-down. And finally, we'll be taking a couple more high-ranking places on Ralph's records page.

Zack Clobes, W0ZC
Project: Traveler

1418. Re: Successful flights today

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 03:51:26 UTC
From: shermane2001
Topic: 1414 Message: 1418

The NY group is alive and well. A last minute rigging modification resulted in our antennas being too close we think. We never heard from our .36 beacon and lost the .39 beacon at 27,000 feet - for a while at least. We hung around the general recovery area hoping that when our payloads landed, the antennas would separate and we would get a ground beacon. We found a near-landing beacon (100 feet from ground) on FindU relayed by a passing car. (I have Internet access via my cell phone.) We were trying to hunt it down in a corn field with some of the NSTAR recovery team. Meanwhile someone else (I don't recall his name) picked up the ground beacon from the road, headed into the corn field and picked it up. Thank you, thank you.

At any rate, we retrieved our data including a CO2 profile. We don't have GPS data but can approximate altitudes with our external temperature data if anyone has both temperature and altitude data that we can see. We also have an object in our pictures that looks like the ISS. Does anyone else have this? No ATV though, our video overlay board failed the night before so I couldn't get my call sign on it.

All in all, it was an interesting experience. We and our students learned quite a bit - both from the conference and our adventures in the field and we do plan to join you all next year in Kansas.

Contact info: shermane.austin@..., URL (not updated with our last two flights yet): http://nrts.mec.cuny.edu/mecsat

--- In GPSL@yahoogroups.com, Zack Clobes <zclobes@s...> wrote:
> What is the status of the NY group? Do you have any website/contact
> info for them?
>
> Zack
>
> Mark Conner wrote:
>
> > I believe everyone is going home with all their toys, even though
> > there were some challenges. I couldn't stay at the restaurant past 3
> > due to family obligations, but a big thank you to all that
participated.
> >
> > Could someone from each group post a brief recap of their flight and
> > recovery experience? I think there were a lot of interesting stories
> > to tell. I'll have the NSTAR recap sometime tomorrow.
> >
> > Wow, what a day. Ten flights launched from the same site within
about
> > 30 minutes of each other. We didn't hold for a group launch because

> > of the increasing wind.
> >
> > 73 de Mark N9XTN
> >
> >
> >

> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> > the web.
> >
> > * To unsubscribe from this group, send an email to:
> > GPSL-unsubscribe@yahoogroups.com
> > <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service <http://docs.yahoo.com/info/terms/>.
> >
> >
> >

> >

1419. RE: [GPSL] Successful flights today

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 04:53:25 UTC
From: Marty Griffin
Topic: 1414 Message: 1419

Hi Mark,

Just a short note. We recovered the EOSS payload out east of Grant. It was a pretty nominal flight with a few burps on GPS/APRS. More to follow from Mike. Glad to see our New York friends and other teams were successful.

Thanks to Doug Calkins the landowner for his hospitality. He loaded up and went to the recovery site with us and taught us about thistles. Thanks also to Zelda at the cafe in Grant for serving up a bunch of great meals. And thanks to the EOSS crew for their time to attend and contribute. Hello to Nick, N0LP for supporting us from Wichita.

And on behalf of EOSS, thanks to you and your team for hosting great event. The seminars were terrific and a lot was learned and shared. Great to see everyone again and we are looking forward to next year.

- Marty
EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Saturday, July 02, 2005 4:08 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Successful flights today

I believe everyone is going home with all their toys, even though there were some challenges. I couldn't stay at the restaurant past 3 due to family obligations, but a big thank you to all that participated.

Could someone from each group post a brief recap of their flight and recovery experience? I think there were a lot of interesting stories to tell. I'll have the NSTAR recap sometime tomorrow.

Wow, what a day. Ten flights launched from the same site within about 30 minutes of each other. We didn't hold for a group launch because of the increasing wind.

73 de Mark N9XTN

YAHOO! GROUPS LINKS

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* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

1420. GPSL in Sunday's Omaha World-Herald

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 13:17:10 UTC
From: Mark Conner
Topic: 1420 Message: 1420
Attachments: 1 described; binary payloads are missing from this source WARC

Got a nice couple of photos on page 3 of the Midlands section.

73 de Mark N9XTN

1421. Re: GPSL in Sunday's Omaha World-Herald

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 14:34:14 UTC
From: jerometonneson
Topic: 1420 Message: 1421

The image was not stored. Could you upload it to the yahoo group
files section or to your web site? Thanks.

-Jerome

--- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
> Got a nice couple of photos on page 3 of the Midlands section.
>
> 73 de Mark N9XTN

1422. RE: [GPSL] Re: GPSL in Sunday's Omaha World-Herald

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-03 15:26:34 UTC
From: Mark Conner
Topic: 1420 Message: 1422

Also posted here now:
http://photos.groups.yahoo.com/group/GPSL/lst

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of jerometonneson
Sent: Sunday, July 03, 2005 09:34
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: GPSL in Sunday's Omaha World-Herald

The image was not stored. Could you upload it to the yahoo group files section or to your web site? Thanks.

-Jerome

--- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
> Got a nice couple of photos on page 3 of the Midlands section.
>
> 73 de Mark N9XTN

1423. Re: ATV

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 02:54:52 UTC
From: Mike Manes
Topic: 1278 Message: 1423

Hi Bill,

Just got back home from Omaha a few hours ago.

This came in after I'd already loaded the ATV into Rick N0KKZ's SUV - so figured I could reply in person in Omaha. Glad you get the bug out - we've had big probs with 70cm ATV getting into a local GPS as well. Let me know how you fixed yours!

BTW, you'll be happy to know that Chris KB0YRZ >>finally<< got a great tape of both of our ATV sigs in flight from his mobile rig! We'll have to
arrange for a copy to you!

Really happy to see that our "TDM" scheme worked so well! Hardly any crossover at all!

The EOSS payload landed just 1.2 mi from Rick's prediction, in a pasture about 200 ft from a corn field and another 100 yd from a wooded creek. Randy NQ0R saw it land, and the rest of the EOSS team watched the decent from about 1/2 mi away. The farmer joined us in the short hike to recovery and pointed us to great little cafe in Grant, Zelda's.

What a great event! Kudos to Mark Conner for setting it up. And thanks to YOU for pioneering a new aspect of ham radio that seems to be burgeoning
in popularity, particularly amongst colleges.

73 de Mike W5VSI

WB8ELK@... wrote:
>
> Hi Mike,
>
> Just in case I don't fly my ATV payload (having a problem or two with
> it at the moment - will try to fix in my hotel), you might want to
> make it easy to switch yours to continuous operation if you have a
> clear channel.
>
> 73s de Bill WB8ELK

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1424. MECSAT recovery photo

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 04:34:04 UTC
From: Mark Conner
Topic: 1424 Message: 1424
Attachments: 1 described; binary payloads are missing from this source WARC

Also posted to http://photos.groups.yahoo.com/group/GPSL/lst

Thanks to Larry N0BKB, Doug KA0O, Lowell KB6SDI, and Steve N0ORU from NSTAR (and others I perhaps didn't hear about?) for helping MECSAT with their recovery on Saturday.

73 de Mark N9XTN

1425. Re: [GPSL] GPSL in Sunday's Omaha World-Herald

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 03:46:13 UTC
From: Mike Manes
Topic: 1420 Message: 1425

Hi MArk,

Rick N0KKZ and I picked up a copy of that paper during a gas stop in Covad (?). Nice photo, but the write-up was a bit sparse. Your att'd jpeg made it to my machine here at home just fine.

Thanks again for all your fine work and making the biggest of all GPSL's happen!

73 de Mike W5VSI

> Mark Conner wrote:
>
> Got a nice couple of photos on page 3 of the Midlands section.
>
> 73 de Mark N9XTN
>
>
> ---
> YAHOO! GROUPS LINKS
>
> + Visit your group "GPSL" on the web.
>
> + To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> + Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
> ---
>
> Name: OWH-GPSL2005.jpg
> OWH-GPSL2005.jpg Type: JPEG Image (image/jpeg)
> Encoding: base64

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1426. GPSL 2005 proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 14:58:46 UTC
From: Mark Conner
Topic: 1426 Message: 1426

We plan to put together some CDs and/or DVDs of this year's activities, which will include all of Friday's presentations and any digital pictures people wish to contribute. Video (digital, VHS, or miniDV) is also welcome and will be digitized. Please send copies rather than originals if possible.

An FTP site announcement for uploading will be forthcoming. In the meantime, if you have any media you'd like to send by mail, just send it to:

Mark Conner N9XTN

907 Thurston Ave

Bellevue, NE 68123-2452

73 de Mark N9XTN

1427. Micro Transmitter

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 20:26:59 UTC
From: JFDAILEY
Topic: 1427 Message: 1427

I did not get the WEB site for the micro transmitter beacon that Bill Brown talked about does anyone know the link to it?

Thanks
Jeff Dailey
Tayor U
BalloonSAT Program

1428. RE: [GPSL] Micro Transmitter

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 20:47:47 UTC
From: Roger Hammond
Topic: 1427 Message: 1428

http://www.silcom.com/~pelican2/PicoDopp/MICROHUNT.htm

Rog - KC?MWM

CNNSP, Grand Island, NE

>I did not get the WEB site for the micro transmitter beacon that Bill
>Brown talked about does anyone know the link to it?

Thanks
Jeff Dailey
Tayor U
BalloonSAT Program

1429. GPSL APRS LOGS

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 22:18:06 UTC
From: Harry M
Topic: 1429 Message: 1429

If anyone has a log of all the GPSL APRS activity on 144.360,
I would appreciate it if you would send it to me. I have a few
missing beacons in my ORB-18 APRS flight log.

Thanks!

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1430. Re: [GPSL] GPSL APRS LOGS

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-04 22:35:33 UTC
From: Kent Ochs
Topic: 1429 Message: 1430
Attachments: 1 described; binary payloads are missing from this source WARC

Harry,

Attached is my log. I did switch a couple of times to different APRS frequency to see what else was flying around us. I hope it will be of some value to you. When you get your track plotted we would be very interested in seeing it.

Again, thank you for the opportunity to participate in the launch of your ballon. We learned a lot, but still have a lot to learn.

73's

Kent Ochs & Family
W9KAO
W9RAO - Ryan
K9DEI - Patty.

Harry M <hhm_74115@...> wrote:
@page Section1 {size: 8.5in 11.0in; margin: 1.0in 1.25in 1.0in 1.25in; }P.MsoNormal {
FONT-SIZE: 12pt; MARGIN: 0in 0in 0pt; FONT-FAMILY: "Times New Roman"}LI.MsoNormal {
FONT-SIZE: 12pt; MARGIN: 0in 0in 0pt; FONT-FAMILY: "Times New Roman"}DIV.MsoNormal {
FONT-SIZE: 12pt; MARGIN: 0in 0in 0pt; FONT-FAMILY: "Times New Roman"}A:link { COLOR: blue;
TEXT-DECORATION: underline}SPAN.MsoHyperlink { COLOR: blue; TEXT-DECORATION:
underline}A:visited { COLOR: purple; TEXT-DECORATION: underline}SPAN.MsoHyperlinkFollowed
{ COLOR: purple; TEXT-DECORATION: underline}SPAN.EmailStyle17 { COLOR: windowtext;
FONT-FAMILY: Arial; mso-style-type: personal-compose}DIV.Section1 { page: Section1}
If anyone has a log of all the GPSL APRS activity on 144.360,
I would appreciate it if you would send it to me. I have a few
missing beacons in my ORB-18 APRS flight log.

Thanks!

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

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GPSL-unsubscribe@yahoogroups.com

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1431. Re: [GPSL] GPSL APRS LOGS

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 00:11:49 UTC
From: Harry M
Topic: 1429 Message: 1431

I replied off-list allready, but thanks again for your help!
I will post all the data on the ORB web site soon.

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> Subject: Re: [GPSL] GPSL APRS LOGS

1432. GPSL recap posted

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 06:16:50 UTC
From: Rick von Glahn
Topic: 1432 Message: 1432

A preliminary recap has been posted for the GPSL adventure. The recap is decidedly EOSS centric. But, others may find it of interest.

http://www.eoss.org/ansrecap/ar_100/recap92.htm

I welcome additional material, however it may take some time to post as very soon I'll be away from my home machine again.

73 -- Rick, NØKKZ

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.8/37 - Release Date: 7/1/2005

1433. Re: RE: [GPSL] Re: GPSL in Sunday's Omaha World-Herald

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 14:28:12 UTC
From: n9xtn@cox.net
Topic: 1420 Message: 1433

I didn't notice until now that the photo caption says the launch was on Tuesday.

Paul KD4STH gave me the address for the local paper in Griswold IA, where many of us stopped at the Casey's gas station. He was talking with someone in the station who was somehow or another related to their paper. I'll be putting together a quick article for them.

73 de Mark N9XTN

1434. CAP flight results

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 15:35:33 UTC
From: n9xtn@cox.net
Topic: 1434 Message: 1434

I think the only group not heard from either by repeater on Saturday or by e-mail has been the CAPNSPACE group from the KC area. Any updates?

73 de Mark N9XTN

1435. Re: [GPSL] CAP flight results

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 16:02:45 UTC
From: Keith Kaiser
Topic: 1434 Message: 1435

CapNSpace had a great flight, reaching 95,082 feet, traveling 30.4
miles, recovery took about 2.5 hours because of high corn. LOL
Pictures are available at http://kaiserklan.com/GPSL2005/GPSL2005.html
for those interest, if anyone needs or wants data tracking information
let me know.

We want to thank the organizers of GPSL 2005 for a great weekend and
to let everyone know we are looking forward to next year.

On 7/5/05, n9xtn@... <n9xtn@cox.net> wrote:
> I think the only group not heard from either by repeater on Saturday or by
> e-mail has been the CAPNSPACE group from the KC area. Any updates?
>
> 73 de Mark N9XTN
>
>
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
> YAHOO! GROUPS LINKS
>
> Visit your group "GPSL" on the web.
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>

1436. Re: [GPSL] CAP flight results

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 17:08:55 UTC
From: n9xtn@cox.net
Topic: 1434 Message: 1436

Thanks for the update, Keith. Excellent pictures! What camera do you use?

73 de Mark N9XTN

----- Original Message -----
From: Keith Kaiser <kcscouter@...>
Date: Tuesday, July 5, 2005 11:02 am
Subject: Re: [GPSL] CAP flight results

> CapNSpace had a great flight, reaching 95,082 feet, traveling 30.4
> miles, recovery took about 2.5 hours because of high corn. LOL
> Pictures are available at http://kaiserklan.com/GPSL2005/GPSL2005.html
> for those interest, if anyone needs or wants data tracking information
> let me know.
>
> We want to thank the organizers of GPSL 2005 for a great weekend and
> to let everyone know we are looking forward to next year.
>
>

1437. Fill tube

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 18:48:17 UTC
From: Ryan Butler
Topic: 1437 Message: 1437

So from the photos and from my own brief walking around Saturday morning, it seemed like a lot of groups were using very similar fill tubes but I didn't get a good look at exactly what they were, are they something that was made, or bought? I've seen one design that is simply some schedule 40 pvc that is capped on one end and then has a air fitting screwed into a side, is that the pretty standard way of doing it?

Thanks

Ryan Butler, KB0JQO
rbutler@...

1438. Re: [GPSL] Fill tube

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 19:38:10 UTC
From: n9xtn@cox.net
Topic: 1437 Message: 1438

NSTAR's is basically that way. I just drilled a hole for the nipple fitting in the cap and epoxied it in. I used oxygen hose fittings, since that was what was on the regulator.

73 de Mark N9XTN

----- Original Message -----
From: Ryan Butler <rbutler@...>
Date: Tuesday, July 5, 2005 1:48 pm
Subject: [GPSL] Fill tube

> So from the photos and from my own brief walking around Saturday
> morning, it seemed like a lot of groups were using very similar fill
> tubes but I didn't get a good look at exactly what they were, are they
> something that was made, or bought? I've seen one design that is
> simplysome schedule 40 pvc that is capped on one end and then has
> a air
> fitting screwed into a side, is that the pretty standard way of doing
> it?
>
> Thanks
>
> Ryan Butler, KB0JQO
> rbutler@...
>
>
>

1439. Re: [GPSL] GPSL APRS LOGS

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 22:14:10 UTC
From: PAUL VERHAGE
Topic: 1429 Message: 1439

Please make all the logs available, I flew on two frequencies.

Paul

>>> hhm_74115@... 07/04/05 4:18 PM >>>

If anyone has a log of all the GPSL APRS activity on 144.360,
I would appreciate it if you would send it to me. I have a few
missing beacons in my ORB-18 APRS flight log.

Thanks!

73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1440. Super Launch Ideas

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 22:35:15 UTC
From: PAUL VERHAGE
Topic: 1440 Message: 1440

A few items....

I'm trying to design a logo for the Super Launch. I'll send an idea for everyone's comments.

I'd like to see the Super Launch become a formal organization. I'm thinking we could get sponsorships that way and help pay for helium and balloons.

I'd also like to see more Super Launches. The Fire in the Sky rocket meet has agreed to a balloon launch with their Memorial weekend rocket fest. I'd like to make that the Northwest Super Launch (NWSL). On Field Day I'd like to see a nationwide launch. The FDSL wouldn't be a get-together like NWSL or GPSL. We would just organize our launches and try things like EBBE. Finally, I think there should be a super launch in the southeast. Bill Brown could be the coordinator for something like that. A good day would probably be Labor Day.

Inputs? Ideas?

Overall, I'm very impressed with what GPSL has become. Ten balloon launches. That's a record for anyone.

I'm not getting attachments in email right now. Could someone get a copy of the World Herald article for me? I can pick it up on the 23rd.

Paul

1441. GPSL Idea pt 2.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 22:38:30 UTC
From: PAUL VERHAGE
Topic: 1441 Message: 1441

One other thing. I believe CQ VHF is interested in an article on GPSL each year. If so, we should let the coodinator of GPSL get the first chance to write the article. The magazine pays for their articles and this will help compensate the coordinator.

Paul

1442. Deep Impact

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-05 22:42:33 UTC
From: PAUL VERHAGE
Topic: 1442 Message: 1442

When you get a chance, check out the Deep Impact results. Pretty cool.

However, ,I do have to say, that we in the ARHAB community have tested this procedure years ago.

Paul

1443. CNNSP website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 04:28:46 UTC
From: Roger Hammond
Topic: 1443 Message: 1443

http://webpages.charter.net/kc0mwm/home

1444. RE: [GPSL] GPSL APRS LOGS

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 05:36:53 UTC
From: Rick von Glahn
Topic: 1429 Message: 1444

Kent,

Your packet log was pretty comprehensive. I've posted it with credit to the EOSS webpage:

HYPERLINK "http://www.eoss.org/ansrecap/ar_100/recap92.htm"http://www.eoss.org/ansrecap/ar_100/recap92.htm

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Kent Ochs
Sent: Monday, July 04, 2005 3:36 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL APRS LOGS

Harry,

Attached is my log. I did switch a couple of times to different APRS frequency to see what else was flying around us. I hope it will be of some value to you. When you get your track plotted we would be very interested in seeing it.

Again, thank you for the opportunity to participate in the launch of your ballon. We learned a lot, but still have a lot to learn.

73's

Kent Ochs & Family
W9KAO
W9RAO - Ryan
K9DEI - Patty.

Harry M <hhm_74115@...> wrote:

If anyone has a log of all the GPSL APRS activity on 144.360,
I would appreciate it if you would send it to me. I have a few
missing beacons in my ORB-18 APRS flight log.

Thanks!

73
Harry

Harry - KC5TRB - Tulsa

Oklahoma Research Balloons
HYPERLINK
"http://members.cox.net/hhm_74775/orb/"http://members.cox.net/hhm_74775/orb/
HYPERLINK
"http://groups.yahoo.com/group/oklahoma_research_balloons/join"http://groups.y
ahoo.com/group/oklahoma_research_balloons/join

SPONSORED LINKS
HYPERLINK
"http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+c
raft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg"Craft hobby
HYPERLINK
"http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=
Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA"Hobby
and craft supply HYPERLINK
"http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+cra
ft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA"Ham radio

_____

YAHOO! GROUPS LINKS

* Visit your group "HYPERLINK "http://groups.yahoo.com/group/GPSL"GPSL"
on the web.

* To unsubscribe from this group, send an email to:
HYPERLINK
"mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe"GPSL-unsubscribe@
yahoogroups.com

* Your use of Yahoo! Groups is subject to the HYPERLINK
"http://docs.yahoo.com/info/terms/"Yahoo! Terms of Service.

_____

--
No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.8/37 - Release Date: 7/1/2005

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.9/39 - Release Date: 7/4/2005

1445. GPSL APRS LOGS for 144.34?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 05:39:08 UTC
From: wb8elk@aol.com
Topic: 1445 Message: 1445

I didn't have a laptop along with me to record APRS on 144.34....does anyone have a logfile on 144.34 that they can email me?

73s de Bill WB8ELK

wb8elk@...

1446. Re: [GPSL] Deep Impact

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 05:43:30 UTC
From: wb8elk@aol.com
Topic: 1442 Message: 1446

Hi Paul,

I re-tested this procedure just this past weekend with my wayward APRS and beacon payloads <smile>.

- Bill WB8ELK

1447. Re: [GPSL] Fill tube

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 05:19:15 UTC
From: Mike Manes
Topic: 1437 Message: 1447

Hi Ryan,

EOSS has several fill tubes, with PVC pipe sized to fit the neck size
the balloon. Reducers down to 1.2 inch NPT-F fit the nozzle on the
rubber hose that goes to the He tank. The tare weight bag ties around
one of the reducers. We use hose clamps to secure the balloon neck to
the pipe during fill.

For 3000 gm balloons, we use a PVC 1 1/2" PVC to 1/2" NPT-F flush
bushing
from Mueller. The bushing is modified with a 0.6"W x 0.050"D groove and
two 3/16" holes for a lift line harness. THe fitting goes inside the
3000 gm neck and is held in place with a hose clamp over the groove.

After fill, the fitting is sealed with a PVC 1/2" NPT plug and flies
with
the balloon.

This is much easier than trying to crimp off the very thick rubber on
the neck of these big balloons.

73 de Mike W5VSI

Ryan Butler wrote:
>
> So from the photos and from my own brief walking around Saturday
> morning, it seemed like a lot of groups were using very similar fill
> tubes but I didn't get a good look at exactly what they were, are they
> something that was made, or bought? I've seen one design that is simply
> some schedule 40 pvc that is capped on one end and then has a air
> fitting screwed into a side, is that the pretty standard way of doing
> it?
>
> Thanks
>
> Ryan Butler, KB0JQO
> rbutler@...
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

1448. WB8ELK flight recap

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 07:09:44 UTC
From: wb8elk@aol.com
Topic: 1448 Message: 1448

Thanks to Mark and all those who helped to make GPSL 2005 a roaring success....it's going to be hard to top the conference room thrill ride. Launch Day results (photos and story to be posted soon to: http://www.wb8elk.com): With the wind starting to pick up and a problem with one of my APRS trackers, I opted to consolidate the two seperate balloon flight trains and hook them onto one balloon instead. Thanks to Ann K0ANN and Marty WA0GEH of EOSS and others who came to my assistance in filling and launching the balloon. We flew a 2000 gram Kaysam with lots of extra lift in order to give us a clean takeoff in the ever-increasing winds. This resulted in a very fast ascent rate around 1360 ft/min. We stopped a few miles west of Grant to await the landing of our balloon (WB8ELK-12) and noticed that shortly after burst (92,874 feet) that the payload was descending a lot faster than usual and appeared to be heading for a landing almost 7 miles to our west. After backtracking just northwest of Elliott, we received the last packet at about 4900 feet and then nothing but a faint signal that was too weak to decode. As Mark KA9SZX and I headed for the position, a deer ran out and put a big dent in KC0SHZ's fender (not sure of his callsign). I then found a new battery for my Icom R-3 and started to look for the video carrier and was thoroughly suprised to see beautiful video that showed the balloon was still over 20,000 high and parachuting down almost 7 miles to our east!!....believing that our APRS transmitter was sending out bogus positions and had just sent us on a wild goose chase, we scurried back to our original position west of Grant and observed weak video shortly after landing showing what appeared to be corn stalks in front of the video camera lens. After DFing the video carrier, we got close enough to read the position off the TV set and after walking through the cornfield, Paul KD4STH joined us and finally located the payload. However, two payloads were missing!! We finally realized that the bogus packets had been real and our two missing payloads (APRS and the CW beacon) had apparently torn free at balloon burst and done a free-fall....I won't be using cheap Walmart nylon cord again. We returned to the last packet reading 7 miles to our west and after searching yet another cornfield (less than a mile west of the Mecsat landing) we finally found the two missing payloads. Even though they came down without a chute in just under 16 minutes, there wasn't a dent or scratch on them and they were both working just fine....apparently the corn must've cushioned the fall. The time-sharing of the 426.25 MHz ATV signal worked really well with just a few seconds of overlap near the end of the flight. The video signals were received in Kansas, Missouri and as far east as Mt. Vernon, Illinois (approx 391 miles). An excerpt of the signal reports listed on the new ATV page on DXworld.com: Jul02 15:42 I am still seeing wb8elk p1 but going down and nothing through the 144.310 repeater (66-39-206-132.ctcco.com 66.39.206.132) Jul02 15:26 My last post must have been the last xmit or burt while not on the air...now nothing de KA9UVY (162-158.wireless.mvn.net 66.232.162.158) Jul02 15:13 Same here kc0hfl (ip68-103-122-52.ks.ok.cox.net 68.103.122.52) Jul02 15:11 P-1 video of ballon still on 426.250 camera shot switches to up a balloon still intact but the other has dissapeared here de ka9uvy em58ng (162-158.wireless.mvn.net 66.232.162.158) Jul02 15:00 wb8elk burst near 93,000 feet de kd0fw (66-39-206-132.ctcco.com 66.39.206.132) Jul02 14:58 The 2 balloons on 426.250 atv are swapping video every minute both just almost P-1 ka9uvy@... (162-158.wireless.mvn.net 66.232.162.158) Jul02 14:56 ALT. going down now de kc0hfl (ip68-103-122-52.ks.ok.cox.net 68.103.122.52) Jul02 14:55 wb8elk 426 still p1-p2 in kansas city mo de kd0fw (66-39-206-132.ctcco.com 66.39.206.132) Jul02 14:49 balloon now p5 in em 17 kc0hfl (ip68-103-122-52.ks.ok.cox.net 68.103.122.52) Jul02 14:42 Balloon video

p1/2 in/out kc0hfl em 17 (ip68-103-122-52.ks.ok.cox.net 68.103.122.52) Jul02 14:36 have seen P1 to P2 balloon video on 426 but can not read text overlay de AA9MY (12-221-239-188.client.insightBB.com 12.221.239.188) Jul02 14:34 it looks like they are near 55,000 feet (66-39-206-132.ctcco.com 66.39.206.132) Jul02 14:23 try his simplex repeater on 144.310 it works great de kd0fw (66-39-206-132.ctcco.com 66.39.206.132) Jul02 14:22 wb8elk 12,700 and going down (66-39-206-132.ctcco.com 66.39.206.132) Jul02 14:21 Lots of packet data on balloons no video yet de AA9MY EN50 (12-221-239-188.client.insightBB.com 12.221.239.188) Jul02 14:08 It was wb8elk at 79,000 feet p2 (66-39-206-132.ctcco.com 66.39.206.132) Jul02 14:07 video on 426 seen a on screen id week at p1 in KCMO (66-39-206-132.ctcco.com 66.39.206.132) Jul02 13:58 Just heard that at least one balloon is at 41,000 feet de kd0fw (66-39-206-132.ctcco.com 66.39.206.132) 73s de Bill WB8ELK

1449. CPANSPACE recap

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 12:12:00 UTC
From: Troy Campbell
Topic: 1449 Message: 1449

Many apologies for not reporting back sooner. Our internet cable service went blooey over the weekend and it wasn't repaired till late yesterday afternoon, causing severe e-mail withdrawal.

We really, really appreciate the job that Mark has done this year. Great Job!

Last year CAPNSPACE attended as observers and students. With everyone's help, we've gotten our program off to a good start.

The www.capnspace.org website will be updated this evening so the results will be available tommorrow morning.

The flight ended at just after 10:00 local with Keith, WAOTJT watching it through binoculars. It took us about 2.5 hours to find it because it landed in a corn field and the corn was pretty tall. DFing was hampered some because it was very hilly in the area.

Finally, with the owner of the farm observing it was recovered 30 miles east of launch site bearing 99 degrees, very near Redwood Ave and 100th street. Maximum altitude was 95,082 ft. I'll post the APRS log from the spacecraft's data recorder this evening. It has pretty much all the traffic on 144.36 till 10:00 local.

All the equipment in the spacecraft worked great. The simplex repeater had contacts from Champaign Ill St Louis and Independence Mo. It was a great tool for us as well. Our ground procedures and equipment need work however.

The recap on the web site will have more detail, but our 3rd flight was very successful.

The conference was great and we've gotten a lot of great information from it and well as new design ideas. I'm really, really looking forward to getting all the presentations, etc as my notes are not that complete. (BTW, I own an ISP and have plenty of bandwidth/disk space for those files if needed.)

Okay, I'm done.

Best to all

Troy Campbell, KC0MIC

Do you Yahoo!?
Yahoo! Mail - You care about security. So do we.
http://promotions.yahoo.com/new_mail

1450. Record entries for GPSL flights

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 12:29:24 UTC
From: Ralph Wallio, W0RPK
Topic: 1450 Message: 1450

Ok folks, the job isn't over until the paperwork is done. Please encourage documented entries for our collective records (http://users.crosspaths.net/wallio/RECORDS.htm) and for our 2005 contest categories (especially telemetry reception and QSO distances). I am going to be very disappointed to win with a paltry 190mi -- but I will not turn it down.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1451. Re: [GPSL] CNNSP website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 13:25:59 UTC
From: PAUL VERHAGE
Topic: 1443 Message: 1451

Those are some awesome photos. I'm now jealous!

Is the CNNSP planning to help on the July 23rd flight?

Paul

1452. ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 13:44:18 UTC
From: Gene Harlan
Topic: 1452 Message: 1452

Sounds like everyone had a good time at GPSL this year! Congratulations on the sucess of getting all those balloons up, and down.

I will be hard at work this weekend putting together the Summer issue of Amateur Television Quarterly. Any recaps that you would like to have published, send 'em in. Also, either include pictures as attachments or point me to a web page where I can download pictures (make sure I know what to caption them with).

Thanks & glad everyone had a good. time.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

1453. Re: [GPSL] CNNSP website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 14:36:41 UTC
From: Roger Hammond
Topic: 1443 Message: 1453

As much as I'd like to, it's probably not going to happen.
This ARHAB stuff has totally consumed me the past several months, and I need to finish siding my garage.
My wife has been very supportive and extremely tolerant of this hobby and I'd like to keep it that way. <smile>

Keep me posted on the details, crazier things have happened.

Rog - KC0MWM

> Is the CNNSP planning to help on the July 23rd flight?
>
> Paul

1454. Balloon Sats

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 14:41:39 UTC
From: Roger Hammond
Topic: 1454 Message: 1454

I have a sister who teaches grade school in Beatrice, NE.
She and some of her associates have expressed some interest in our
hobby and I'd like to get them some information on balloon sats.
I thought at the conference someone mentioned a book that had been
written on the subject. I would appreciate any information that you
all may have on the subject.

Thanks in advance.

Rog - KC0MWM

1455. RE: [GPSL] Balloon Sats

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 14:38:19 UTC
From: Rochte, Robert
Topic: 1454 Message: 1455

Paul Verhage is working on such a book. You can find the initial chapters
at:

http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp

73,
Robert KC8UCH

>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
>Roger Hammond
>Sent: Wednesday, July 06, 2005 10:42 AM
>To: GPSL@yahoogroups.com
>Subject: [GPSL] Balloon Sats
>
>
>I have a sister who teaches grade school in Beatrice, NE.
>She and some of her associates have expressed some interest in our
>hobby and I'd like to get them some information on balloon sats.
>I thought at the conference someone mentioned a book that had been
>written on the subject. I would appreciate any information that you
>all may have on the subject.
>
>Thanks in advance.
>
>Rog - KC0MWM
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>
>Yahoo! Groups Links
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1456. RE: [GPSL] CNNSP website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 14:51:02 UTC
From: Mark Conner
Topic: 1443 Message: 1456

Some cool pix. Several photos of what are probably other balloons within the frame (also a couple of burned-out pixels in the camera's CCD?).

- Mark

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Roger Hammond
Sent: Tuesday, July 05, 2005 23:29
To: GPSL list
Subject: [GPSL] CNNSP website updated

http://webpages.charter.net/kc0mwm/home

1457. RE: [GPSL] GPSL APRS LOGS for 144.34?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 15:03:24 UTC
From: Doug, KAOO
Topic: 1445 Message: 1457
Attachments: 1 described; binary payloads are missing from this source WARC

Here are my raw TNC logs from before the launch to after everyone was down on .34.

~~Doug, KAOO
-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of wb8elk@...
Sent: Wednesday, July 06, 2005 12:39 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL APRS LOGS for 144.34?

I didn't have a laptop along with me to record APRS on 144.34....does anyone have a logfile on 144.34 that they can email me?

73s de Bill WB8ELK

wb8elk@...

--
YAHOO! GROUPS LINKS

a.. Visit your group "GPSL" on the web.

b.. To unsubscribe from this group, send an email to: GPSL-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

--

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.9/42 - Release Date: 7/6/2005

1458. Solar montgolfiere flight tomorrow

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 15:03:17 UTC
From: Rochte, Robert
Topic: 1458 Message: 1458

If all goes well, I hope to fly the solar tetroon that we built in the hotel room at GPSL tomorrow morning. The winds were simply too strong to fly the tetroon on Saturday - perhaps we'll have better luck next year!

1459. Re: [GPSL] CNNSP website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 16:13:09 UTC
From: Roger Hammond
Topic: 1443 Message: 1459

Yep, evidently...you just don't get good quality for $100.
=)

Rog

> the frame (also a couple of burned-out pixels in the camera's CCD?).
>
>
>
> - Mark

1460. RE: [GPSL] GPSL APRS LOGS for 144.34?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 16:37:03 UTC
From: Rick von Glahn
Topic: 1445 Message: 1460

I don't have a log of 144.340. However, if you go to:

HYPERLINK "http://findu.eoss.org/"http://findu.eoss.org/

or any of the other findu search pages you can enter a callsign and a time window and the system will return any packets it has stored for that station. You'll need to search for "Raw Data for a Specific Station". The default time window on our page is 96 hours. Set that to something outrageously high like 400 hours and you should get what you need. Be sure to set the 400 hours in both windows, Starting Time and Duration.

Seeing your message reminded me I hadn't downloaded the track for my vehicle. I did that just now and got all the APRS packets back to the trip out to Omaha on June 30.

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Tuesday, July 05, 2005 10:39 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL APRS LOGS for 144.34?

I didn't have a laptop along with me to record APRS on 144.34....does anyone have a logfile on 144.34 that they can email me?

73s de Bill WB8ELK

wb8elk@...

YAHOO! GROUPS LINKS

* Visit your group "HYPERLINK "http://groups.yahoo.com/group/GPSL"GPSL" on the web.

* To unsubscribe from this group, send an email to:
HYPERLINK "mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe"GPSL-unsubscribe@yahoogroups.com

* Your use of Yahoo! Groups is subject to the HYPERLINK "http://docs.yahoo.com/info/terms/"Yahoo! Terms of Service.

--
No virus found in this incoming message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.9/39 - Release Date: 7/4/2005

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.9/42 - Release Date: 7/6/2005

1461. Re: [GPSL] ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 21:50:54 UTC
From: PAUL VERHAGE
Topic: 1452 Message: 1461

Zack, are you putting something together?

Paul

>>> atvq@... 07/06/05 7:44 AM >>>
Sounds like everyone had a good time at GPSL this year! Congratulations on the sucess of getting all those balloons up, and down.

I will be hard at work this weekend putting together the Summer issue of Amateur Television Quarterly. Any recaps that you would like to have published, send 'em in. Also, either include pictures as attachments or point me to a web page where I can download pictures (make sure I know what to caption them with).

Thanks & glad everyone had a good. time.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

Yahoo! Groups Links

1462. Re: [GPSL] Balloon Sats

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-06 21:56:43 UTC
From: PAUL VERHAGE
Topic: 1454 Message: 1462

I have an article in this month's Nuts and Volts magazine on BalloonSats. You can find my book at www.parallax.com. Click on the Resources tab, then Customer Applications. At the bottom, under Science, you'll find Near Space. The first four chapters (out of a total of 15) and my articles are there.

Chapter Four will be put there ater I get home.

Paul

>>> rahammond@charter.net 07/06/05 8:41 AM >>>
I have a sister who teaches grade school in Beatrice, NE.
She and some of her associates have expressed some interest in our
hobby and I'd like to get them some information on balloon sats.
I thought at the conference someone mentioned a book that had been
written on the subject. I would appreciate any information that you
all may have on the subject.

Thanks in advance.

Rog - KC0MWM

Yahoo! Groups Links

1463. Re: [GPSL] ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 01:32:45 UTC
From: Zack Clobes
Topic: 1452 Message: 1463

I plan on having an article ready tomorrow night.....

Zack

PAUL VERHAGE wrote:

>Zack, are you putting something together?
>
>Paul
>
>
>
>>>>atvq@... 07/06/05 7:44 AM >>>
>>>>
>>>>
>Sounds like everyone had a good time at GPSL this year! Congratulations on
>the sucess of getting all those balloons up, and down.
>
>I will be hard at work this weekend putting together the Summer issue of
>Amateur Television Quarterly. Any recaps that you would like to have
>published, send 'em in. Also, either include pictures as attachments or
>point me to a web page where I can download pictures (make sure I know what
>to caption them with).
>
>Thanks & glad everyone had a good. time.
>
>Gene Harlan - WB9MMM
>NEW - Name Tags by Gene
>Harlan Technologies - publisher of Amateur Television Quarterly
>ATVQ@...
>815-398-2683 - voice
>815-398-2688 - fax
>http://www.hampubs.com
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1464. Re: [GPSL] Fill tube

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 01:31:27 UTC
From: Zack Clobes
Topic: 1437 Message: 1464

I found a nipple at the hardware store that screws directly into the helium tank, and then I use a hose clamp to attach a few feet of clear plastic tubing. The tubing is plenty ridged enough that we just stick it in the neck of the balloon and wrap the whole thing in duct tape.

When the balloon is filled, we have two people handling the neck of the balloon basically, one to tie, and one to hold onto the balloon. Using a challenge/response/confirmation method (Me: "You have the balloon." Them: "I have the balloon." Me again: "You've got it.") we've never lost a balloon or had a problem.

Once the hose is removed, we pinch off the neck, and feed it through a large brass ring (3" dia?) that can be purchased from Hobby Lobby. The neck is doubled back onto itself and we use a plastic zip tie to do the initial seal because it's quick and easy, but not necessarily air-tight. Then we wrap the whole thing with duct tape.

The load line is then attached to the brass ring using a knot or good quality dog-leash style clip.

We use this for two primary reasons:
1. It's simple. In a pinch, you can even get away without using the brass ring by just putting a slip-knot in the rope and feeding the neck through the loop.

2. It's light-weight and doesn't expose hard plastic to a vehicle's windshield. We recently had a Kansas group's balloon impact a windshield at highway speeds. As I understand it, the payload itself didn't do any damage, but a piece of PVC ?in the neck? put a pretty good crack in the window.

K.I.S.S.
Zack Clobes, W0ZC
Project: Traveler

Mike Manes wrote:

>Hi Ryan,
>
>EOSS has several fill tubes, with PVC pipe sized to fit the neck size
>the balloon. Reducers down to 1.2 inch NPT-F fit the nozzle on the
>rubber hose that goes to the He tank. The tare weight bag ties around
>one of the reducers. We use hose clamps to secure the balloon neck to
>the pipe during fill.
>
>For 3000 gm balloons, we use a PVC 1 1/2" PVC to 1/2" NPT-F flush
>bushing

>from Mueller. The bushing is modified with a 0.6"W x 0.050"D groove and
>two 3/16" holes for a lift line harness. THe fitting goes inside the
>3000 gm neck and is held in place with a hose clamp over the groove.
>
>After fill, the fitting is sealed with a PVC 1/2" NPT plug and flies
>with
>the balloon.
>
>This is much easier than trying to crimp off the very thick rubber on
>the neck of these big balloons.
>
>73 de Mike W5VSI
>
>Ryan Butler wrote:
>
>
>>So from the photos and from my own brief walking around Saturday
>>morning, it seemed like a lot of groups were using very similar fill
>>tubes but I didn't get a good look at exactly what they were, are they
>>something that was made, or bought? I've seen one design that is simply
>>some schedule 40 pvc that is capped on one end and then has a air
>>fitting screwed into a side, is that the pretty standard way of doing
>>it?
>>
>>Thanks
>>
>>Ryan Butler, KB0JQO
>>rbutler@...
>>
>>
>>Yahoo! Groups Links
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1465. ORB Update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 15:01:24 UTC
From: Harry M
Topic: 1465 Message: 1465
Attachments: 1 described; binary payloads are missing from this source WARC

```
The ORB web site has been updated
for the GPSL flight ORB-18.

73 Harry

-----
Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----
```

1466. Sky Diamond 9 - solar Montgolfiere

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 14:51:39 UTC
From: Rochte, Robert
Topic: 1466 Message: 1466

Sky Diamond 9 is aloft at about 15000 feet and almost straight over the Grosse Pointe Academy in Grosse Pointe Farms, Michigan at this moment. Unfortunately, the tracker is no longer attached to the balloon - it instead decided to attach itself to a tree on the Academy grounds!

I thought that we might actually achieve our first successful 100% solar launch with moderate surface winds, but it was not to be. The envelope made contact with one tree, rolled off the branches quite miraculously, and then the lower three feet or so of the payload line tangled around another branch and snapped. The payload plummeted about ten feet down the tree and hung up on a high branch - and the tetroon then continued its normal ascent.

It's a sad, sad day here at GPA... (The taunting by obnoxious pre-teens in our summer camp programme - "hey mister, your bag of groceries is flying away!" - didn't help my mood at all... Alas, they're not regular students here or I would exact an horrible revenge! ;-))

73,
Robert
KC8UCH

--
Robert Rochte
Director of Technology
The Grosse Pointe Academy
171 Lake Shore Road
Grosse Pointe Farms, MI 48236
Tel. +1 313-886-1221 x155
FAX +1 313-886-1418
http://mail.gpacademy.org/~rochter

1467. CAPNSPACE update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 16:35:52 UTC
From: kc0mic
Topic: 1467 Message: 1467

Web site is updated.

Flight Recap
http://www.capnspace.org/index.cgi

Mission Data
http://www.capnspace.org/Missions/?dir=cns-003a

Narratives to be added soon.....

Troy Campbell, KC0MIC

1468. GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 16:55:36 UTC
From: PAUL VERHAGE
Topic: 1468 Message: 1468

During lunch, I was able to arrange for GPSL 2006. Zack in Hutchinson, Kansas will host it.

I'm looking forward to meeting everyone again in Hutch.

Let's see if we can get over 10 balloons next year!!

Paul

1469. Does anyone have the names/callsign of Iowa State student the conference?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 23:02:00 UTC
From: Zack Clobes
Topic: 1469 Message: 1469

[Body unavailable in the source archive]

1470. [GPSL] ORB Landing Prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 23:06:27 UTC
From: Harry M
Topic: 1470 Message: 1470

Landing Prediction Analysis

I have been looking over my landing prediction
using the same data I used in Omaha, just to see
if I made an error. I used 800 fpm for ascent in BT
because that's what I expected after only one other
flight using an 800g balloon. I got approx. 1000 fpm
during the flight. Just changing the ascent rate in
BT would have given me a new prediction of 2.19 miles
from landing instead of 13.36 which is my official
prediction error.

It sure is nice to have sonde data from the local area
to make predictions with, unlike here in Tulsa.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1471. RE: [GPSL] Does anyone have the names/callsign of Iowa State student the conference?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 23:25:09 UTC
From: Mark Conner
Topic: 1469 Message: 1471

I have Jerry Stoner and Greg Leavitt from ISU on the attendance list. No callsigns given.

73 de Mark N9XTN

1472. Re: [GPSL] Does anyone have the names/callsign of Iowa State student the conference?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 23:30:39 UTC
From: Harry M
Topic: 1469 Message: 1472

Mark,

Is the attendance list going to be made available?

Harry

1473. RE: [GPSL] Does anyone have the names/callsign of Iowa State student the conference?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 00:09:50 UTC
From: David Hoffman
Topic: 1469 Message: 1473

Mark, I never did sign that attendance list. Can you stick myself and my daughter Janice on it? Thanks

David Hoffman - KE4FGW

> I have Jerry Stoner and Greg Leavitt from ISU on the attendance list. No callsigns given.
>
> 73 de Mark N9XTN
>
> YAHOO! GROUPS LINKS
>
> Visit your group "GPSL" on the web.
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

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>

1474. Re: [GPSL] Does anyone have the names/callsign of Iowa State student the conference?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 23:18:32 UTC
From: Ralph Wallio, W0RPK
Topic: 1469 Message: 1474

Zack,

Two ISU students attended GPSL2005:

Jerry Stoner (made their presentation)
jerry507@...

Greg Leavitt
greg@...

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1475. Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 04:42:28 UTC
From: wb8elk@aol.com
Topic: 1475 Message: 1475

Can each group post a listing here of their final landing coordinates...I'd like to plot them on a map.

My flight and landing site data follows:

Kaysam 2000 gram - 430 cu. ft. inflation - 8 lb flight train.

Launch - 1345:42z
Burst - 92,875 ft at 1454:42z
Avg ascent rate: 1330 ft/min.

Burst coordinates:
41d 10.61m
95d 15.89m

WB8ELK ATV (and simplex repeater) landing site:

41d 09.17m
95d 03.87m

1533z landing - 38 minute descent time from burst (6 ft parachute)
Descent rate at landing: 1187 ft/min - (13.5 mph).

WB8ELK-12 APRS and CW beacon landing site:

41d 10.01m
95d 12.11m

1512z landing - 17 minute descent time from burst (freefall)
Descent rate at landing: 3400 ft/min - (38.6 mph).

73s de Bill WB8ELK

1476. RE: [GPSL] Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 11:08:45 UTC
From: Roger Hammond
Topic: 1475 Message: 1476

CNNSP/NSTAR

N 41d 9.6'
W 95d 3.6'

> Can each group post a listing here of their final landing
coordinates...I'd like to plot them on a map.

1477. Re: [GPSL] ORB Landing Prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 12:35:14 UTC
From: Ralph Wallio, W0RPK
Topic: 1470 Message: 1477

We are dealing with four uncertainties:

Winds aloft whether observed (RAOB) or forecast (READY).

Ascent velocity (which we know is not a constant, see chaotic discussion at http://users.crosspaths.net/wallio/ASCENT.html)

Burst altitude (unless balloon is cut away before burst)

Descent velocity (partially mitigated by characterizing parachute performance)

Long term collective prediction performance has average error of ~12mi and does not appear to be improving. We don't know if Rick's or Mark's or Harry's next prediction is going to be off by 2mi or 20mi.

Our current collective best foot forward seems to be gathering observed wind data on the way up and continuously refining landing coordinates which eliminates all uncertainties. ANSR (meaning KD7LMO) does it routinely with real time processing in their payloads. ISU/HABET does it in their SSOL in real time with constantly updated mapping.

However, it doesn't seem make much difference whether power lines are involved 2mi or 20mi from a preflight prediction. The next step is controlled descent with either parafoil (e.g., ISU/HABET RGS http://cosmos.ssol.iastate.edu/RGS/), fixed wing (e.g., High Altitude Glider http://members.shaw.ca/sonde/index.htm) or lifting body (e.g., BLT http://www.qsl.net/w5acm/b20.html).

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1478. KC0MIC burst and landing coordinates

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 13:32:37 UTC
From: kc0mic
Topic: 1478 Message: 1478

CAPNSPACE

Burst: 95083
41 10.8578,N x 095 14.0153,W
14:35:01z

Landing: 1059
41 09.4109,N x 095 01.9621,W
15:13:02z

1479. Re: [GPSL] ORB Landing Prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 14:30:21 UTC
From: n9xtn@cox.net
Topic: 1470 Message: 1479

In my experience, the uncertainty that contributes most is the ascent velocity, followed by the burst altitude. #3 would be winds aloft, but generally for the layer above 60,000 ft.

With the majority (>80%) of the predictions I have run, the balloon follows the general shape of the predicted track, if the wind prediction is < 18 hrs old. However, we don't control our ascent rate all that well. NSTAR usually errs on the side of overfilling as a result of some bad experiences with trying to get an ascent rate < 1000 ft/min. Getting a 1300 ft/min ascent rate instead of 1000 ft/min usually leads to about a 10% shortening of the distance to landing.

Effects of errors in burst altitude on the landing position vary, of course, on the winds near burst altitude. In the summer, this may contribute a few miles of error, more in the winter.

We did have a situation for NSTAR 05-C where there was a significant difference in the wind profile observed versus the predicted profile used to generate our landing site estimate. The winds dropped off sharply above 58,000 ft which was not reflected in our forecast profile. This caused us to come down short of the prediction by several miles. The forecast models do not include a lot of detail at and above this altitude.

There is probably some more accuracy to be had, but not much:

1) Generate best forecast wind profile possible (mix of observed and forecast data, esp for winds above 55,000 ft). Running a wind profile in the late afternoon or evening before is best. I haven't seen enough changes between a 6-hr forecast run early on the morning of a launch and a 12 or 18-hr forecast run the night before.

2) Control lift so ascent rate matches that used in prediction. This is far more difficult operationally, esp. for those who fill outside. It's a rare day that we can get a lift reading that's worth the effort before launch, and usually we do it after we tie off the balloon and are committed to that lift value. Measuring lift while hooked up to the fill device introduces its own uncertainties.

a) It would be interesting to create a ballast system and the logic to control it so that you could launch at a lower ascent rate, then dump ballast to obtain an ideal rate. But there are a lot of unknowns and variables in that process too.

In general, our predictions tend to be good enough to support being in sight of the payloads as they land, if the driving distance is reasonable (<60 mi). They also tend to be good enough to know if a medium-sized town (pop. >2500) is in the way of a landing so an alternative launch site or day is chosen. Beyond that will likely require a parachute-control mechanism as Ralph mentioned. This could be used to guide the payloads away from the roads (where power lines tend to be) but not so far as to be a long walk into the corn.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <wallio@...>
Date: Friday, July 8, 2005 7:35 am
Subject: Re: [GPSL] ORB Landing Prediction

> We are dealing with four uncertainties:
>
> Winds aloft whether observed (RAOB) or forecast (READY).
>
> Ascent velocity (which we know is not a constant, see chaotic
> discussion at
> http://users.crosspaths.net/wallio/ASCENT.html)
>
> Burst altitude (unless balloon is cut away before burst)
>
> Descent velocity (partially mitigated by characterizing parachute
> performance)
>
> Long term collective prediction performance has average error of
> ~12mi and
> does not appear to be improving. We don't know if Rick's or
> Mark's or
> Harry's next prediction is going to be off by 2mi or 20mi.
>
> Our current collective best foot forward seems to be gathering
> observed wind
> data on the way up and continuously refining landing coordinates which
> eliminates all uncertainties. ANSR (meaning KD7LMO) does it
> routinely with
> real time processing in their payloads. ISU/HABET does it in
> their SSOL in
> real time with constantly updated mapping.
>
> However, it doesn't seem make much difference whether power lines are
> involved 2mi or 20mi from a preflight prediction. The next step is
> controlled descent with either parafoil (e.g., ISU/HABET RGS
> http://cosmos.ssol.iastate.edu/RGS/), fixed wing (e.g., High
> Altitude Glider
> http://members.shaw.ca/sonde/index.htm) or lifting body (e.g., BLT
> http://www.qsl.net/w5acm/b20.html).
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>

1480. Flight tracks

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 14:33:13 UTC
From: n9xtn@cox.net
Topic: 1480 Message: 1480

Actually, once each group has a final track available (after sorting through the multitude of logs), please post the filtered data to the list or post a URL where it can be downloaded. It would probably be best if it were *not* parsed, so people can feed it into their favorite APRS program for display.

73 de Mark N9XTN

1481. Re: [GPSL] Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 15:06:35 UTC
From: Harry M
Topic: 1475 Message: 1481

ORB

4108.89N/09459.37W

1482. Re: [GPSL] Flight tracks

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 15:35:51 UTC
From: Harry M
Topic: 1480 Message: 1482

ORB GPSL Files

I have uplaoded to the ORB Yahoo FILES/ORB-18 GPSL2005 area
the completed log, except for missing packets, which are identified in
another
file. I have also uploaded a lat/lon file for import into Street Atlas or
other
program.

http://members.cox.net/hhm_74775/orb/

Harry

> Actually, once each group has a final track available (after sorting
through the multitude of logs), please post the filtered data to the list or
post a URL where it can be downloaded. It would probably be best if it were
not parsed, so people can feed it into their favorite APRS program for
display.

1483. Re: [GPSL] ORB Landing Prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 16:26:44 UTC
From: Harry M
Topic: 1470 Message: 1483

I agree with all the mentioned points. The problem here is
getting good data from any source to run predictions with.
If you draw a 100 mile circle from the center of Tulsa you'll
see that there are no NWS sonde sites, except for PROFILERS.
This detracts significantly from the accuracy of my predictions,
which can vary a great deal no matter whose data I use. I use
READY data for a half dozen or so locations.

Another variable for me is that 90% of the balloons I fly are not
listed in LiftWin. Ascent rate predictions vary considerably. I
rely mostly on previous flights with a like balloon.

On another note, I hope this doesn't happen, but there are entities
trying to only make the NWS data available to commercial entities.
I spoke with the new manager of the Tulsa NWS, he said this is
a very remote possibility at this time, but all it takes is one individual
and one politician to sneak in legislation. I am a member of the NE
Oklahoma Chapter AMS (NEOCAMS) and will attend a meeting
next week where I will see if there is any more news in refard to the
above mentioned plot.

73 Harry

1484. GPSL 2005 attendance roster

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 16:55:04 UTC
From: n9xtn@cox.net
Topic: 1484 Message: 1484

Below is a listing of the 65 attendees who signed the roster on Friday (plus any late additions by e-mail), sorted by last name. If you attended Friday but did not sign the roster, please e-mail me your name, callsign, city/state, and group affiliation.

73 de Mark N9XTN

Adisoemarta

Paulus

N5SNN

Texas Tech University ARSAT

Austin

Shermane

KC2NAZ

Medger Evers College MECSAT (Professor)

Barnard

Jack

WY0F

CNNSP

Beall

Jim

K0TOR

EOSS

Beall

Doreen

EOSS

Brockway

Steve

KA5YFC

HABITAT/SKYLAB

Brockway

Mary

KC0NYQ

HABITAT/SKYLAB

Brodie

Dwayne

Medger Evers College MECSAT

Brown

Bill

WB8ELK

WB8ELK

Butler

Ryan

KB0JQO

Campbell

Troy

KC0MIC

CAP-N-SPACE

Campbell

Cindy

KC0RRW

CAP-N-SPACE

Campbell

Benjie

W0CBH

EOSS

Clobes

Zack

W0ZC

PROJECT TRAVELER

Conner

Mark

N9XTN

NSTAR

Dailey

Jeff

Taylor University BalloonSat (Advisor)

DeBell

Marcia

KC0SOW

EOSS

Dinneen

John

K5JFD

EOSS

Douglas

Carolyn

Medger Evers College MECSAT

Etienne

Vladimir

Medger Evers College MECSAT

Eubanks

Doug

KA0O

NSTAR

Foster

Ann

K0ANN

EOSS

Garrett

Mark

KA9SZX

WB8ELK

Griffin

Marty

WA0GEH

EOSS

Griffin

Sharon

EOSS

Haigh

David

K9VKG/VK2TUL

Hammond

Roger

KC0MWM

CNNSP

Helm

Michael

WC5Z

Texas Tech University ARSAT

Helm

Angus

KD5ARY

Son of WC5Z

Helm

Travis

KD5URL

Son of WC5Z

Hoffman

David

KE4FGW

Hoffman

Janice

Daughter of David KE4FGW

Holmes

Will

Taylor University BalloonSat (Professor)

Huff

David

KC0GFO

Johnson

Leon

Medger Evers College MECSAT

Kaiser

Keith

WA0TJT

NEAR SPACE VENTURES

Kaiser

Deb

NEAR SPACE VENTURES

Kilian

Jim

KC0TJN

Krengel

Chris

KB0YRZ

EOSS

Leavitt

Greg

Iowa State University HABET

Lemmons

Joy

KB0YUP

Manes

Mike

W5VSI

EOSS

Mills

Larry

WB0UXI

HABITAT/SKYLAB

Morgan

Mike

N5LPZ

EOSS

Mueller

Harry

KC5TRB

ORB

Narayana

Manjunath

University of Kansas KU HABS

Noble

Larry

N0NDM

EOSS

Ochs

Kent

W9KAO

Ochs

Ryan

W9RAO

Paruchuri

Nikhil

University of Kansas KU HABS

Reynard

Randy

NQ0R

EOSS

Richardson

Jeff

K0JLR

CNNSP

Riley

Jon

AJ0NR

PROJECT TRAVELER

Rochte

Robert

KC8UCH

Gross Pointe Academy

Rochte

(Son)

Son of KC8UCH

Shackelford

Tony

KC0RJL

NSTAR

Shepardson

Paul

N0NMZ

Stich

Nick

KC0URV

HABITAT/SKYLAB

Stoner

Jerry

Iowa State University HABET

Strange

Andrew

Taylor University BalloonSat

Tonneson

Jerome

W0JRT

HABITAT/SKYLAB

Venus-Harding

Jenielle

Medger Evers College MECSAT

Verhage

Paul

KD4STH

KD4STH

von Glahn

Rick

N0KKZ

EOSS

Wallio

Ralph

W0RPK

1485. Re: [GPSL] GPSL 2005 attendance roster

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 17:31:39 UTC
From: David Hoffman
Topic: 1484 Message: 1485

My group affiliation would be with WB8ELK.

David Hoffman - KE4FGW

>
>
>
> Below is a listing of the 65 attendees who signed the roster on Friday
> (plus any late additions by e-mail), sorted by last name. If you attended
> Friday but did not sign the roster, please e-mail me your name, callsign,
> city/state, and group affiliation.
> 73 de Mark N9XTN

1486. Re: [GPSL] Fill tube

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-07 04:01:29 UTC
From: Mike Manes
Topic: 1437 Message: 1486

Hi Zack,

We use the PVC nipple only on the 3000 gram bags. The neck rubber is so thick that it's nearly impossible to fold in half. And the nipple weighs just 2 oz - not much added to a 6.6 lb balloon, and not much compared to Pete's payload.

73 de Mike W5VSI

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1487. LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 19:17:26 UTC
From: Hank
Topic: 1470 Message: 1487

> Another variable for me is that 90% of the balloons I fly are
> not listed in LiftWin. Ascent rate predictions vary considerably.
> I rely mostly on previous flights with a like balloon.

Harry,

Could you please let me know what your latest list of
balloons is?

As I've mentioned before, between finding a similar or
identical (same characteristics, different manufacturer)
balloon that is listed, plus using the LIFTWIN burst height
adjustment feature, it should be possible to get a pretty
good match for most balloons that we might run across.

Hank

1488. the quest for accurate landing predictions

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 20:01:00 UTC
From: Hank
Topic: 1470 Message: 1488

> Ascent velocity (which we know is not a constant ...)

Even having a more precise *average* ascent speed would help a lot. The lack of constancy is less critical, and some flights have quite remarkable constancy in ascent.

Of course that's part of the problem: some do, and some don't have those steady ascents that the software presumes.

> Burst altitude (unless balloon is cut away before burst)

This error is a combination of manufacturing tolerances, LIFTWIN not taking into account the *exact* temperature variation with altitude, and perhaps a few other variables such as the individual shape of the balloon as it expands, and mechanical factors such as how hard the balloon gets bounced around on its flight upward.

There is also the launch operator error of not being able to precisely (or at least accurately enough) determine the amount of gas used at fill time (either typically by ground lift force measurement, or by other means).

> Long term collective prediction performance has average
> error of ~12mi and does not appear to be improving.

Given the above considerations (and others not treated here), I wouldn't expect any improvement. We are doing the best that can be done with the input values we have available.

> Our current collective best foot forward seems to be gathering observed wind data on the way up and continuously refining landing coordinates which eliminates all uncertainties.

This may be a matter of semantics, but I don't think *all* uncertainties are eliminated. It may appear so because the results can be so much better.

Hank

1489. RE: [GPSL] Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 20:29:28 UTC
From: Rick von Glahn
Topic: 1475 Message: 1489

EOSS

Actual Landing Site

Landing Point: 41.1334° lat. -94.8572° long.
Grid: X=49.1 Y=43.2
Bearing: 99.6° True
Range: 39.6 Mi.

73 -- Rick, NØKKZ

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.11/44 - Release Date: 7/8/2005

1490. RE: [GPSL] Flight tracks

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 20:29:28 UTC
From: Rick von Glahn
Topic: 1480 Message: 1490

EOSS data is available at:

http://www.eoss.org/ansrecap/ar_100/recap92.htm

Look towards the bottom of the page for the DATA section. There are a variety of plain text logs and a comma delimited spread sheet of eoss-092 only.

The file "combined log" contains data from all kinds of places (buffer from the KPC3, findu.com, my logs, a few other logs I've come into possession of that covered 144.360 MHz on that day. It contains ONLY the GPS position information for EOSS-092 but does cover from the last ground based packet prior to launch to the first ground based packet upon landing.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of n9xtn@...
> Sent: Friday, July 08, 2005 7:33 AM
> To: gpsl@yahoogroups.com
> Subject: [GPSL] Flight tracks
>
> Actually, once each group has a final track available (after
> sorting through the multitude of logs), please post the
> filtered data to the list or post a URL where it can be
> downloaded.

...snip...

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.323 / Virus Database: 267.8.11/44 - Release Date: 7/8/2005

1491. Re: [GPSL] Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 21:13:45 UTC
From: Mike Manes
Topic: 1475 Message: 1491

Hi Bill et al,

EOSS-92 landed at:

41d 08.000' N, 94d 51.431' W

73 de Mike W5VSI

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1492. Re: [GPSL] ORB Landing Prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 21:21:11 UTC
From: Mike Manes
Topic: 1470 Message: 1492

Hi Ralph,

Rick's AM prediction was within 1.2 mi of our actaul landing. He passed
that word verbally at the Econolodge at breakfast rather than emailing
it. See the EOSS-92 recap on our web site.

Rick also runs a refined prediction based on ascent winds on his
computer,
and relays the refined prediction thru the EOSS digi on AE0SS-11 as
his call with a big red X icon. That is, when his ground station gets
good packets on ascent - which it didn't during GPSL 05.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> We are dealing with four uncertainties:
>
> Winds aloft whether observed (RAOB) or forecast (READY).
>
> Ascent velocity (which we know is not a constant, see chaotic discussion at
> http://users.crosspaths.net/wallio/ASCENT.html)
>
> Burst altitude (unless balloon is cut away before burst)
>
> Descent velocity (partially mitigated by characterizing parachute
> performance)
>
> Long term collective prediction performance has average error of ~12mi and
> does not appear to be improving. We don't know if Rick's or Mark's or
> Harry's next prediction is going to be off by 2mi or 20mi.
>
> Our current collective best foot forward seems to be gathering observed wind
> data on the way up and continuously refining landing coordinates which
> eliminates all uncertainties. ANSR (meaning KD7LMO) does it routinely with
> real time processing in their payloads. ISU/HABET does it in their SSOL in
> real time with constantly updated mapping.
>
> However, it doesn't seem make much difference whether power lines are
> involved 2mi or 20mi from a preflight prediction. The next step is
> controlled descent with either parafoil (e.g., ISU/HABET RGS
> http://cosmos.ssol.iastate.edu/RGS/), fixed wing (e.g., High Altitude Glider
> http://members.shaw.ca/sonde/index.htm) or lifting body (e.g., BLT
> http://www.qsl.net/w5acm/b20.html).
>
> TNX es 73 de Ralph Wallio, W0RPK

> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1493. Re: [GPSL] GPSL 2005 attendance roster

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 22:37:18 UTC
From: Jon Riley
Topic: 1484 Message: 1493

Riley , Brenda KC0HKU Project Traveler
and the 4 kids, Kristyn,Brittany,Patric,Taylor

n9xtn@... wrote:

Below is a listing of the 65 attendees who signed the roster on Friday (plus any late additions by e-mail), sorted by last name. If you attended Friday but did not sign the roster, please e-mail me your name, callsign, city/state, and group affiliation.

73 de Mark N9XTN

AdisoemartaPaulusN5SNNTexas Tech University ARSATAustinShermaneKC2NAZMedger Evers College MECSAT (Professor)BarnardJackWY0FCNNSPBeallJimK0TOREOSSBeallDoreenEOSSBrockwaySteveKA5YFCH ABITAT/SKYLABBrockwayMaryKC0NYQHABITAT/SKYLABBrodieDwayneMedger Evers College MECSATBrownB illWB8ELKWB8ELKButlerRyanKB0JQOCampbellTroyKC0MICCAP-N-SPACECampbellCindyKC0RRWCAP-N-SPACE CampbellBenjieW0CBHEOSSClobesZackW0ZCPROJECT TRAVELERConnerMarkN9XTNNSTARDaileyJeffTaylor University BalloonSat
(Advisor)DeBellMarciaKC0SOWEOSSDinneenJohnK5JFDEOSSDouglasCarolynMedger Evers College MECSATEtienneVladimirMedger Evers College MECSATEubanksDougKA0ONSTARFosterAnnK0ANNEOSSGarr ettMarkKA9SZXWB8ELKGriffinMartyWA0GEHEOSSGriffinSharonEOSSHaighDavidK9VKG/VK2TULHammondRog erKC0MWMCNNSPHelmMichaelWC5ZTexas Tech University ARSATHelmAngusKD5ARYSon of WC5ZHelmTravisKD5URLSon of WC5ZHoffmanDavidKE4FGWHoffmanJaniceDaughter of David KE4FGWHolmesWillTaylor University BalloonSat (Professor)HuffDavidKC0GFOJohnsonLeonMedger Evers College
MECSATKaiserKeithWA0TJTNEAR SPACE VENTURESKaiserDebNEAR SPACE VENTURESKilianJimKC0TJNKrengelChrisKB0YRZEOSSLeavittGregIowa State University HABETLemmons JoyKB0YUPManesMikeW5VSIEOSSMillsLarryWB0UXIHABITAT/SKYLABMorganMikeN5LPZEOSSMuellerHarryKC 5TRBORBNarayanaManjunathUniversity of Kansas KU
HABSNobleLarryN0NDMEOSSOchsKentW9KAOOchsRyanW9RAOParuchuriNikhilUniversity of Kansas KU HABSReynardRandyNQ0REOSSRichardsonJeffK0JLRCNNSPRileyJonAJ0NRPROJECT TRAVELERRochteRobertKC8UCHGross Pointe AcademyRochte(Son)Son of KC8UCHShackelfordTonyKC0RJ LNSTARShepardsonPaulN0NMZStichNickKC0URVHABITAT/SKYLABStonerJerryIowa State University HABETStrangeAndrewTaylor University
BalloonSatTonnesonJeromeW0JRTHABITAT/SKYLABVenus-HardingJenielleMedger Evers College MECSATVerhagePaulKD4STHKD4STHvon GlahnRickN0KKZEOSSWallioRalphW0RPK

YAHOO! GROUPS LINKS

Visit your group "GPSL" on the web.

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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1494. Re: [GPSL] GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 18:58:41 UTC
From: Mike Manes
Topic: 1468 Message: 1494

Hi Paul & Zack,

Well done, guys! I was kinda wondering when we'd get to the GPSL 2006
bit!

I hope that EOSS can field yet another sizeable contingent. Looking
forward to learning the proposed dates. I see that 4 Jul 06 is on
a Tuesday -- so suspect that the weekend prior would fit tradition?

73 de Mike W5VSI
Prez EOSS

PAUL VERHAGE wrote:
>
> During lunch, I was able to arrange for GPSL 2006. Zack in Hutchinson, Kansas will host
it.
>
> I'm looking forward to meeting everyone again in Hutch.
>
> Let's see if we can get over 10 balloons next year!!
>
> Paul
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1495. Re: [GPSL] Sky Diamond 9 - solar Montgolfiere

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 18:49:38 UTC
From: Mike Manes
Topic: 1466 Message: 1495

Hi Robert,

Condolances, sir! I was disappointed that we couldn't witness a
tetroon launch at Treynor last weekend, but thanks for a great
presentation! I'm getting some serious bugging now from the EOSS
team to give one a try here in Colorado (as if we don't have enough
flights on the docket as is!).

73 de Mike W5VSI
Prez EOSS

"Rochte, Robert" wrote:
>
> Sky Diamond 9 is aloft at about 15000 feet and almost straight over the
> Grosse Pointe Academy in Grosse Pointe Farms, Michigan at this moment.
> Unfortunately, the tracker is no longer attached to the balloon - it instead
> decided to attach itself to a tree on the Academy grounds!
>
> I thought that we might actually achieve our first successful 100% solar
> launch with moderate surface winds, but it was not to be. The envelope made
> contact with one tree, rolled off the branches quite miraculously, and then
> the lower three feet or so of the payload line tangled around another branch
> and snapped. The payload plummeted about ten feet down the tree and hung up
> on a high branch - and the tetroon then continued its normal ascent.
>
> It's a sad, sad day here at GPA... (The taunting by obnoxious pre-teens in
> our summer camp programme - "hey mister, your bag of groceries is flying
> away!" - didn't help my mood at all... Alas, they're not regular students
> here or I would exact an horrible revenge! ;-))
>
> 73,
> Robert
> KC8UCH
>
> --
> Robert Rochte
> Director of Technology
> The Grosse Pointe Academy
> 171 Lake Shore Road
> Grosse Pointe Farms, MI 48236
> Tel. +1 313-886-1221 x155
> FAX +1 313-886-1418
> http://mail.gpacademy.org/~rochter
>
>
> Yahoo! Groups Links

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>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1496. Re: [GPSL] LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 23:29:41 UTC
From: Harry M
Topic: 1470 Message: 1496

Ralph,

I have tried interpolating between manuf. & sizes with a lot of mixed
results..
I even called Kaysam a while back & they didn't even have records of these
Go figure!

The latest balloon is labeled "Kaysam 'HIGH MODULUS 30KM'" dated (2003).
It weighs out to be 794g. Two flights to 95k & 93k, which works out fairly
close
in LiftWin for a Totex 800, given 2lb free lift, 70 deg, 1k alt & 3 lb
payload. At
least this one is performing according to LW.

What I have more of are labeled "Kaysam SW16" dated (2001). They weigh out
to be
825-850g. I have been getting 1100-1300 fpm when LW says 900 fpm.

hm

1497. Re: [GPSL] LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 23:32:48 UTC
From: Harry M
Topic: 1470 Message: 1497

Ralph,

I forgot to mention that at one time I wanted a (-) negative
burst adjustment in LiftWin and was supprised I couldn't.

hm

1498. Re: [GPSL] GPSL 2005 attendance roster

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-09 01:19:48 UTC
From: Zack Clobes
Topic: 1484 Message: 1498

Just for the record, my wife Crystal Clobes, N0CDC was also in attendance
at the launch/chase.

Zack

> Riley , Brenda KC0HKU Project Traveler
> and the 4 kids, Kristyn,Brittany,Patric,Taylor
>
> n9xtn@... wrote:
>
> Below is a listing of the 65 attendees who signed the roster on Friday
> (plus any late additions by e-mail), sorted by last name. If you attended
> Friday but did not sign the roster, please e-mail me your name, callsign,
> city/state, and group affiliation.
>
> 73 de Mark N9XTN
>
> AdisoemartaPaulusN5SNNTexas Tech University
> ARSATAustinShermaneKC2NAZMedger Evers College MECSAT
> (Professor)BarnardJackWY0FCNNSPBeallJimK0TOREOSSBeallDoreenEOSSBrockwaySteveKA5YFCHABITA
T/SKYLABBrockwayMaryKC0NYQHABITAT/SKYLABBrodieDwayneMedger
> Evers College
> MECSATBrownBillWB8ELKWB8ELKButlerRyanKB0JQOCampbellTroyKC0MICCAP-N-SPACECampbellCindyKC0
RRWCAP-N-SPACECampbellBenjieW0CBHEOSSClobesZackW0ZCPROJECT
> TRAVELERConnerMarkN9XTNNSTARDaileyJeffTaylor University BalloonSat
> (Advisor)DeBellMarciaKC0SOWEOSSDinneenJohnK5JFDEOSSDouglasCarolynMedger
> Evers College MECSATEtienneVladimirMedger Evers College
> MECSATEubanksDougKA0ONSTARFosterAnnK0ANNEOSSGarrettMarkKA9SZXWB8ELKGriffinMartyWA0GEHEOS
SGriffinSharonEOSSHaighDavidK9VKG/VK2TULHammondRogerKC0MWMCNNSPHelmMichaelWC5ZTexas
> Tech University ARSATHelmAngusKD5ARYSon of WC5ZHelmTravisKD5URLSon of
> WC5ZHoffmanDavidKE4FGWHoffmanJaniceDaughter of David
> KE4FGWHolmesWillTaylor University BalloonSat
> (Professor)HuffDavidKC0GFOJohnsonLeonMedger Evers!
> College
> MECSATKaiserKeithWA0TJTNEAR SPACE VENTURESKaiserDebNEAR SPACE
> VENTURESKilianJimKC0TJNKrengelChrisKB0YRZEOSSLeavittGregIowa State
> University
> HABETLemmonsJoyKB0YUPManesMikeW5VSIEOSSMillsLarryWB0UXIHABITAT/SKYLABMorganMikeN5LPZEOSS
MuellerHarryKC5TRBORBNarayanaManjunathUniversity
> of Kansas KU
> HABSNobleLarryN0NDMEOSSOchsKentW9KAOOchsRyanW9RAOParuchuriNikhilUniversity
> of Kansas KU
> HABSReynardRandyNQ0REOSSRichardsonJeffK0JLRCNNSPRileyJonAJ0NRPROJECT
> TRAVELERRochteRobertKC8UCHGross Pointe AcademyRochte(Son)Son of
> KC8UCHShackelfordTonyKC0RJLNSTARShepardsonPaulN0NMZStichNickKC0URVHABITAT/SKYLABStonerJe

rryIowa
> State University HABETStrangeAndrewTaylor University
> BalloonSatTonnesonJeromeW0JRTHABITAT/SKYLABVenus-HardingJenielleMedger
> Evers College MECSATVerhagePaulKD4STHKD4STHvon
> GlahnRickN0KKZEOSSWallioRalphW0RPK
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>
>
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>

1499. Re: [GPSL] GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-09 01:27:50 UTC
From: Zack Clobes
Topic: 1468 Message: 1499

Actually, I don't think the weekend of the fourth is going to work for Hutchinson. As I recall, there's a major golf tournament in town that week (don't ask me which one, 'cause I dunno), but I'm sure the hotels have been booked for months.

I was going to recommend the weekend prior to Field Day, whatever that is. We could do it following the tournament, but that's probably getting prety late (read HOT).

Any thoughts?

Zack

> Hi Paul & Zack,
>
> Well done, guys! I was kinda wondering when we'd get to the GPSL 2006
> bit!
>
> I hope that EOSS can field yet another sizeable contingent. Looking
> forward to learning the proposed dates. I see that 4 Jul 06 is on
> a Tuesday -- so suspect that the weekend prior would fit tradition?
>
> 73 de Mike W5VSI
> Prez EOSS
>
> PAUL VERHAGE wrote:
>>
>> During lunch, I was able to arrange for GPSL 2006. Zack in Hutchinson,
>> Kansas will host it.
>>
>> I'm looking forward to meeting everyone again in Hutch.
>>
>> Let's see if we can get over 10 balloons next year!!
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>> Paul
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.

> Einstein
>
>

1500. CNNSP merged position log/NSTAR recap

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-09 01:28:14 UTC
From: Mark Conner
Topic: 1500 Message: 1500

Here's my attempt to merge the CNNSP packets from about four log sources (incl. FindU). There are a few missing, but not many. The burst occurred between 1438 and 1441 UTC. I'm guessing we lost the 1439 and 1440 packets because of the chaos after burst. The highest reported altitude was 90,811 ft. This was on a Kaymont 1000g "high-performance" balloon with about 8.5 lbs suspended from it.

Also, those of you watching 144.34 got rather frequent updates that the NSTAR payload lost its GPS. What happened was that the power cord for the payload got between the DB9 connectors and popped it loose. This happened about a minute and a half before launch. There is a little evidence from the log that it may have been loose for a brief period before then, too. Anyway, we'll switch to putting screws on this connector (want to keep it a DB9 so other GPS units can be swapped in) and be more careful about routing of the wires.

One programming change to be implemented is to have the payload take pictures at some arbitrary interval even if the GPS fails. We got zero pictures because the failure occurred before launch.

73 de Mark N9XTN

KC0MWM-11>APT311,WIDE2-1/1:/021238z4113.87N/09536.43WO109/000/A=001177

KC0MWM-11>APT311,WIDE2-1/1:/021239z4113.87N/09536.43WO109/000/A=001203

KC0MWM-11>APT311,WIDE2-1/1:/021240z4113.87N/09536.43WO109/000/A=001220

KC0MWM-11>APT311,WIDE2-1/1:/021241z4113.87N/09536.43WO109/000/A=001226

KC0MWM-11>APT311,WIDE2-1/1:/021242z4113.86N/09536.43WO109/000/A=001256

KC0MWM-11>APT311,WIDE2-1/1:/021243z4113.86N/09536.43WO109/000/A=001259

KC0MWM-11>APT311,WIDE2-1/1:/021244z4113.87N/09536.43WO109/000/A=001259

KC0MWM-11>APT311,WIDE2-1/1:/021245z4113.87N/09536.43WO109/000/A=001256

KC0MWM-11>APT311,WIDE2-1/1:/021246z4113.87N/09536.43WO109/000/A=001266

KC0MWM-11>APT311,WIDE2-1/1:/021247z4113.87N/09536.43WO109/000/A=001223

KC0MWM-11>APT311,WIDE2-1/1:/021248z4113.87N/09536.43WO109/000/A=001233

KC0MWM-11>APT311,WIDE2-1/1:/021249z4113.87N/09536.43WO109/000/A=001236

KC0MWM-11>APT311,WIDE2-1/1:/021250z4113.87N/09536.43WO109/000/A=001249

KC0MWM-11>APT311,WIDE2-1/1:/021251z4113.87N/09536.43WO109/000/A=001249

KC0MWM-11>APT311,WIDE2-1/1:/021252z4113.87N/09536.43WO109/000/A=001256

KC0MWM-11>APT311,WIDE2-1/1:/021253z4113.87N/09536.43WO109/000/A=001243

KC0MWM-11>APT311,WIDE2-1/1:/021254z4113.87N/09536.43WO109/000/A=001236

KC0MWM-11>APT311,WIDE2-1/1:/021255z4113.87N/09536.43WO109/000/A=001240

KC0MWM-11>APT311,WIDE2-1/1:/021256z4113.86N/09536.44WO282/000/A=001259

KC0MWM-11>APT311,WIDE2-1/1:/021257z4113.86N/09536.44WO282/000/A=001233

KC0MWM-11>APT311,WIDE2-1/1:/021258z4113.86N/09536.44WO282/000/A=001259

KC0MWM-11>APT311,WIDE2-1/1:/021259z4113.86N/09536.44WO282/000/A=001256

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1501. FTP server

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-09 20:03:13 UTC
From: Mark Conner
Topic: 1501 Message: 1501

Thanks to Troy KC0MIC of CAP-N-SPACE, we now have an FTP server for uploading GPSL 2005 materials.

Site: capnspace.org

User: gpslftp

Password: gpslftp

Please make a subdirectory with your group name or callsign under the main directory before uploading your files. You can make any subdirectories under your own directory too if that helps to organize your files.

Anyone having pictures or video clips, regardless of whether you're associated with a balloon group or not, please contribute to our GPSL 2005 proceedings CD/DVD.

Some of you have already sent me a CD - if so, you don't need to upload those pictures.

If you would prefer to send me a CD because you're on dial-up and don't want to spend time uploading a large volume of data, you can send me a CD with your pictures at:

Mark Conner

907 Thurston Ave

Bellevue NE 68123-2452

73 de Mark N9XTN

1502. RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 05:06:54 UTC
From: Rochte, Robert
Topic: 1502 Message: 1502

[Harry: I've copied this to the GPSL group, etc., since others have asked similar questions and your email is the first to which I am responding. I hope you don't mind!]

Thanks for writing. I'm only at the Academy every few days during the summer, so my email sometimes stacks up a bit. Thanks also for the kind words... Regarding SD9, the payload was recovered today with a little help from a high-tech slingshot!

About building a solar tetroon... You could lift a three pound payload to about 65k feet using one of my standard Sky Diamond designs (what I typically use for school programmes). These are made from 8 or 9 micron high-density polyethylene film (thicker film could be used but the design would need to be scaled up significantly). Such film is typically sold in 9 and 12 foot rolls - buy the 12 foot.

Roll the film down a long hallway and measure out 55.5' (that's no typo - fifty-five and a half feet). Cut the film at this point, and then do the same thing again. That is, you will need two 12' x 55.5' sheets to begin construction.

Now open up the two sheets (the rolls are usually folded down to about 1.5') and seal them together along one of the long sides (I'm tired, so please forgive my less-than-clear writing at the moment). You want to end up with a big sheet that measures 24' x 55.5' (if you can find 24' wide film then you can skip this step).

How to seal them together? You can use tape (just use normal Scotch tape - no need for heavy packing tape ala the boys in France) or you can heat seal using a hobby iron, converted soldering iron, vacuum-pack food sealer or industrial-type heat sealer (like I use). You could probably even do it with Super 77 if you just felt like being different, but I wouldn't recommend it!

Ideally, the seal should be made with a lap seam of some kind or other - this isn't critical, though, and unless you're taping the pieces together it probably won't be too practical.

Okay, now that you have your giant sheet of film, you need to seal the two 24' edges together. Again, use whatever method works for you. Tape demands extra hands to hold the film, etc., but is the lowest-tech approach and works fine. When you have completed this step, you should have a large tube of plastic film that measures 24' long with a circumference of 55.5'. You won't be able to actually see this tube, of course, because the film will be all over your floor - but you need to keep the idea in your mind so that you don't get the various edges confused.

Next step, sealing one of the edges of the actual tetroon... It is as simple as sealing one of the ends of the large tube - just start at the seam that you just created and seal one of the ends all the way across (since the length of the original sheet is now folded in half, the length of this seam will be 1/2 the original sheet length or about 27.75').

At this point you have a plastic pillow case suitable for a Jack-and-the-beanstalk type giant. If you sealed off the other end in exactly the same way as the first, you would have created a "pillow balloon". This is a very simple shape but really has nothing to recommend it. It's so easy to improve on a pillow balloon - either by making a proper cylinder (albeit with a little loose fabric) or else a tetroon - that the pillow balloon really should remain an historical footnote amongst balloon designers.

Okay, how to make a tetroon? Just seal the remaining end at a 90 degree angle to the opposite side and you'll have it. That is, picture the pillow balloon (or a pillow case) with both ends closed in the same way (straight seals that are parallel to one another). Now imagine one of the ends sealed the "other" way - not parallel to the first side, but instead perpendicular to it. (Some people stumble here, but as soon as you see it you'll wonder how anyone can be confused!). If somehow you just can't grasp this, then go to the late-night drive-thru window at Wendy's and order a baked potato with sour cream. The sour cream packets at Wendy's - last I saw, anyway - are made the same way (though the dimensions are a little off and so the tetrahedron isn't regular).

Your basic tetroon is now completed. The final step in constructing the envelope is to cut the mouth and attach the load ring. First, decide on the size of the mouth (and thus the load ring). Note that I am only discussing the simplest possible arrangement here - the basic Sky Diamond design - and thus a rigid load ring is assumed. I usually use a full-size hula hoop (or dollar-store equivalent) for the load ring and these measure somewhere between 32" and 36". The mouth will be cut slightly larger so that no circumferential stress is created at the mouth.

To do this, lay out one of the corners of the envelope on your cutting surface (it needs to be rather large) and straighten out the film so that there are no wrinkles or folds. Now cut an arc equal in radius (from the corner) to the desired mouth diameter. For the basic Sky Diamond tetroon, I usually cut a 4' mouth. Note that a rotary cutter really comes in handy here - I just lay my measure down and mark the 4' radius every few inches with a permanent marker, then cut the arc out freehand using the rotary tool.

If you're using tape to seal the entire balloon, you could now just fold a cuff of 2-3" all around the mouth and tape this (very well!) to the envelope. This will form a sleeve into which the load ring (i.e.., hula hoop) can be slid. You'll need to make a slit somewhere along the sleeve, of course, to actually insert the ring.

If you're using a heat sealer or some other method besides tape, then you probably want to use a separate sleeve and attach it to the mouth. For the

academic SD design, I typically use HDPE garbage bags. You can cut the edges of the bags off in 3" strips and the existing fold (i.e., along the edge of the bag) will form the bottom of the sleeve. Heat seal or otherwise attach these sleeves (you'll need multiple pieces unless you're cutting the sleeve from a long roll of lay-flat tubing) to the mouth and you're done.

(Why use the separate sleeve? Because it is very difficult to ensure a strong seam when heat-sealing the very thin balloon material to itself... The film varies greatly in thickness along its width and the heat sealer will seal some areas perfectly and melt holes in others. This is fine for low stress areas of the envelope but results in catastrophe if it happens along the mouth.)

Last but not least, take the hula hoop apart (emptying any contents like beads or water) and slid it into the sleeve. Carefully poke a few holes through the sleeve - just above the top of the load ring (no longer just a hula hoop!) - and attach your suspension lines. Given a 1-2 kg payload, I would typically use 6-8 lines. I have used as few as four - this worked once and failed another time. More than eight and they're just getting tangled all the time. Make sure that these lines - once tied around the load ring - are equal in length and then tie them together. This is where your load line (to the parachute, payload, etc.) will be tied.

At this point, the envelope is complete. I usually don't add the solar absorber (tempera paint, in the case of the Sky Diamond) until I reach the flying field - it *will* leak out and get on your clothes, car, etc. and it can really make a mess.

Once you're at the launch site, take about four ounces of powdered paint and dump it into the envelope. Now gently pull, tug and shake the envelope to completely coat the inside with the paint. Four ounces is really too much, but you'll definitely have enough that way... So once the entire thing is coated (it will look grey instead of white), dump the excess paint back out of the mouth.

NB: You MUST use a non-flammable powder as your solar absorber! Using powdered charcoal or other potentially flammable substances can result in a MASSIVE explosion and cause severe injury and possibly even death! Think "grain elevator explosion" and you'll know what I'm talking about... I settled on tempera paint not because it was the best substance for absorbing solar radiation, but because it works good enough and is 80% calcium carbonate - and thus entirely non-flammable. DO NOT IGNORE this important matter or you will be risking life and limb - you have been warned and I cannot be held responsible for stupid decisions made by stupid people!

Ah, I feel better now... Where were we? The envelope is built, the rigging is attached to the load ring, the solar absorber has been distributed throughout the balloon and by now you've already attached your payload to the rigging. It's time to fly!

Look around you - are the leaves jiggling on the trees? Are there light gusts, maybe to five mph or so? If so, then you might be really sad in a

few minutes... I suggest bagging the balloon up again and waiting for an absolutely calm morning. A launch can be done in light winds, but you will need a very large field and lots of patience. A little Valium wouldn't hurt, either.

So let's assume that the conditions are just right - calm, cool (<20C), and with the sun up for at least an hour. (What's the minimum solar elevation by season to ensure launch of a typically loaded Sky Diamond? Beats me - but it would make a perfect science fair project!) The first step is to get air into the tetroon. You can use a leaf blower (be careful, though, or you'll tear a hole in the gossamer film), a household fan or you can simply do deep-knee bends while hold the mouth and thereby pump air into the balloon. My first launches all used a leaf blower - I now use the deep-knee bend technique almost exclusively.

If the conditions are really great (cold, calm air, crystal clear skies with no cirrus or haze), then you'll notice lift almost immediately. One of the corners of the tetroon will lift off the ground as soon as it has some air in it and the entire balloon will be airborne before it is even half full. Typically, though, it takes a little longer than this - but not more than a few minutes unless there is a breeze (and thus forced-convective cooling - a really bad thing for a solar Montgolfiere).

Once the balloon is in the air, hold onto your payload loosely and wait for the balloon to take it from you. As with all balloons, watch out for false lift (with calm conditions you won't need to worry). The ascent will be majestic and perhaps nerve-wracking for those familiar with latex weather balloon launches - it is VERY slow at first and will settle out around 300-400 fpm (I think I mistakenly said around 500 fpm at the GPSL conference). Again, you can see why wind is the enemy of solar balloons - my most recent Sky Diamond couldn't clear a 40' tree that was 75 yards away!

Peak altitude will take a couple of hours and descent will begin about 30-45 minutes before local sunset. If you let the payload just ride the balloon all the way down (which I always do), it should be on the ground about three hours after the descent begins.

A descent can be commanded (as Ron Armstrong, VE2JOR, has requested for his group's solar tetroon) by simply flipping the tetroon upside down. This is accomplished by tying lines to each of the three top corners of the envelope and securing these to the payload (usually via a single suspension line - it looks something like the crown line on a conventional hot air balloon). Descent is initiated by cutting the primary suspension and thus inverting the balloon. Note that you'll need to rely on your parachute to slow the descent if you choose this method. This extra line can also be used for ground-handling in light winds (like a crown line) or to abort a launch.

To those who may not be hams or are otherwise contemplating the free-flight of non-tracked balloons: Please don't fly one of these without a tracker of some kind. This is a large balloon made from non-biodegradable plastic film that can have significant impact on the environment if it is not retrieved. If you fly one, make sure that you can get it back! The liability that you

create is YOUR OWN and it could be massive - you have been warned (again).

Let me know if anyone has any questions... This was written in one session and not proofed, so there may be some things that make no sense at all - if you find something like that, please point it out. I will post an edited version of this message on my web site in the next few days.

Regards,
Robert
KC8UCH

--
Robert Rochte
Director of Technology
The Grosse Pointe Academy
171 Lake Shore Road
Grosse Pointe Farms, MI 48236
Tel. +1 313-886-1221 x155
FAX +1 313-886-1418
http://mail.gpacademy.org/~rochter

-----Original Message-----
From: Harry M [mailto:hhm_74115@...]
Sent: Saturday, July 09, 2005 11:02 PM
To: Rochte, Robert
Subject: Solar Tetroon

Hi Robert,

I resent this in case you didn't get the first one.

Sorry to hear about the misfortune on Sky Diamond 9. Better luck next time!

Thanks for the very informative lecture at GPSL, it was very MOVING! :)
I didn't get a chance to speak with you while you were there. I am interested
in making a tetroon. Can you give me the basic dimensions/stats or any other info that might help. I would like to make one to lift about 3 pounds. I plan to
use the painters plastic & tempera paint as you recommended at GPSL.

I have a 4 meter solar balloon cut from plans on
http://perso.wanadoo.fr/ballonsolaire/en-index.htm
I haven't taped it together yet. I hope to do so soon.

73 Harry - KC5TRB

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1503. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 14:01:20 UTC
From: Harry M
Topic: 1502 Message: 1503

Hi Robert,

Thanks for the very informative narrative on the tetroon. Since
I returned from GPSL I made a couple of paper tetroons and
a couple out of garbage bags just for practice. I will try to scale
up and get a big one ready.

73 Harry KC5TRB

> Subject: [GPSL] RE: Solar Tetroon

1504. Solar Tetroon Model Pic

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 15:23:11 UTC
From: Harry M
Topic: 1504 Message: 1504

I have uploaded a pic of my model solar tetroon to the ORB
reflector in the FILES/SOLAR TETROON area.

hm

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1505. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 16:02:41 UTC
From: Don KA0JLF
Topic: 1502 Message: 1505

As Forrest G. said, "I'm not a smart man" so I'm
headed to Wendy's for a baked patato. ;-) Maybe then I
can get a 2D to 3D conversion in my mind. ;-)

73
Don

--- Harry M <hhm_74115@...> wrote:

>
> Hi Robert,
>
> Thanks for the very informative narrative on the
> tetroon. Since
> I returned from GPSL I made a couple of paper
> tetroons and
> a couple out of garbage bags just for practice. I
> will try to scale
> up and get a big one ready.
>
>
> 73 Harry KC5TRB
> -----
>
>
> > Subject: [GPSL] RE: Solar Tetroon
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> Yahoo! Groups Links
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>
> GPSL-unsubscribe@yahoogroups.com
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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1506. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 16:05:07 UTC
From: Don KA0JLF
Topic: 1502 Message: 1506

Oh, Harry (and Robert) thanks for the pictures and
URLs I've visited a few and checked Harry's picture
too.

I'm just having trouble converting the 2D images to 3D
objects in my head. I'm hoping the 3D sour cream
package will do the trick. Besides, it's lunch time
and the XYL (Cris N0XZB) won't have to cook. ;-)
Method to my madness. ;-)

73

--- Harry M <hhm_74115@...> wrote:

>
> Hi Robert,
>
> Thanks for the very informative narrative on the
> tetroon. Since
> I returned from GPSL I made a couple of paper
> tetroons and
> a couple out of garbage bags just for practice. I
> will try to scale
> up and get a big one ready.
>
>
> 73 Harry KC5TRB
> -----
>
>
> > Subject: [GPSL] RE: Solar Tetroon
>
>
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
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Sell on Yahoo! Auctions ? no fees. Bid on great items.
http://auctions.yahoo.com/

1507. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 16:25:47 UTC
From: Don KA0JLF
Topic: 1502 Message: 1507

Ok, now I get it (not the patato yet) but the 3D
image. I followed more links that you guys provided
and I now "SEE" it! Thanks!

I found this one to be pretty neat, size and view
angles, really helped too:
http://www.skychariot.com/tetrahedron/

Later,
Don

--- Don KA0JLF <ka0jlf@...> wrote:

> Oh, Harry (and Robert) thanks for the pictures and
> URLs I've visited a few and checked Harry's picture
> too.
>
> I'm just having trouble converting the 2D images to
> 3D
> objects in my head. I'm hoping the 3D sour cream
> package will do the trick. Besides, it's lunch time
> and the XYL (Cris N0XZB) won't have to cook. ;-)
> Method to my madness. ;-)
>
> 73
>
> --- Harry M <hhm_74115@...> wrote:
>
> >
> > Hi Robert,
> >
> > Thanks for the very informative narrative on the
> > tetroon. Since
> > I returned from GPSL I made a couple of paper
> > tetroons and
> > a couple out of garbage bags just for practice. I
> > will try to scale
> > up and get a big one ready.
> >
> >
> > 73 Harry KC5TRB
> > -----
> >
> >
> > > Subject: [GPSL] RE: Solar Tetroon
> >

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> Sell on Yahoo! Auctions ? no fees. Bid on great
> items.
> http://auctions.yahoo.com/
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Sell on Yahoo! Auctions ? no fees. Bid on great items.
http://auctions.yahoo.com/
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1508. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 16:42:46 UTC
From: Harry M
Topic: 1502 Message: 1508

Hi Don,

Don't feel bad, it took me 4 tries to get the model right! :)

If there is no overlap on the seams the formula
I used on an 8.5x11 sheet of paper for the width
was 11 / 2.3094 = 4.763" and follow the directions
here... http://www.flymetothemoon.com.au/homebuilding/solar.htm

Gluck!

73 Harry KC5TRB

> Subject: Re: [GPSL] RE: Solar Tetroon

1509. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 16:47:28 UTC
From: Harry M
Topic: 1502 Message: 1509

Now your making the connection (synaptic that is)!
Just visualize 4 equalateral triangles.

hm

1510. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 17:33:50 UTC
From: Harry M
Topic: 1502 Message: 1510

I think we need to call this thread "Balloon Origami 101". :)

1511. RE: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 18:06:53 UTC
From: Rochte, Robert
Topic: 1502 Message: 1511

>was 11 / 2.3094 = 4.763" and follow the directions
>here... http://www.flymetothemoon.com.au/homebuilding/solar.htm
>

Steve made a great page - I especially like the plug for my site at the bottom! =) He went through the same difficulties in understanding the shape and finally had to make one to see it (I suggested the Wendy's packet to him as well but I don't think they have them in Australia). After he understood the idea, he made that page and it is a wonderful reference.

I don't agree with all of his "rules of thumb" - e.g., the volume calculation is actually Prof. Huch's shortcut for doing the calc and Steve got that from Don Piccard. It's close, but if you're using a spreadsheet to do the calcs there's just no reason to use it. Back in the days of sliderules it made sense.

Note that the "2.309..." term is actually four over the square root of three - in case you were wondering!

1512. Re: [GPSL] LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-08 22:26:37 UTC
From: Mike Manes
Topic: 1470 Message: 1512

Hi Hank,

I've got LiftWin 0.41, and the set profile feature is still under construction in that version. Is there a newer one out there now?

BTW, Liftwin hit our numbers re ascent rate right on for GPSL 05, but predicted a bit higher burst (that's very unit-specific!). Keep up the good work, and drop by GPSL sometime, eh? It's a real gas ...

73 de Mike W5VSI, EOSS

Hank wrote:
>
> > Another variable for me is that 90% of the balloons I fly are
> > not listed in LiftWin. Ascent rate predictions vary considerably.
> > I rely mostly on previous flights with a like balloon.
>
> Harry,
>
> Could you please let me know what your latest list of
> balloons is?
>
> As I've mentioned before, between finding a similar or
> identical (same characteristics, different manufacturer)
> balloon that is listed, plus using the LIFTWIN burst height
> adjustment feature, it should be possible to get a pretty
> good match for most balloons that we might run across.
>
> Hank
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1513. Re: [GPSL] GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 22:36:39 UTC
From: Mike Manes
Topic: 1468 Message: 1513

Hi Zack,

I think FD happens on the last weekend of June, which would be 24 Jun 06.
The Sunday prior, 6/18/06, is Father's Day, which may be an issue for some attendees (not me, tho).

I'd like to get GPSL 06 on the calendar PDQ, before Colo Space Grant posts its reservations for next year.

And thanks again for stepping forward to coordinate this burgeoning event!

73 de Mike W5VSI

Zack Clobes wrote:
>
> Actually, I don't think the weekend of the fourth is going to work for
> Hutchinson. As I recall, there's a major golf tournament in town that
> week (don't ask me which one, 'cause I dunno), but I'm sure the hotels
> have been booked for months.
>
> I was going to recommend the weekend prior to Field Day, whatever that is.
> We could do it following the tournament, but that's probably getting
> prety late (read HOT).
>
> Any thoughts?
>
> Zack
>
> > Hi Paul & Zack,
> >
> > Well done, guys! I was kinda wondering when we'd get to the GPSL 2006
> > bit!
> >
> > I hope that EOSS can field yet another sizeable contingent. Looking
> > forward to learning the proposed dates. I see that 4 Jul 06 is on
> > a Tuesday -- so suspect that the weekend prior would fit tradition?
> >
> > 73 de Mike W5VSI
> > Prez EOSS
> >
> > PAUL VERHAGE wrote:
> >>
> >> During lunch, I was able to arrange for GPSL 2006. Zack in Hutchinson,
> >> Kansas will host it.

> >>
> >> I'm looking forward to meeting everyone again in Hutch.
> >>
> >> Let's see if we can get over 10 balloons next year!!
> >>
> >> Paul
> >>
> >>
> >> Yahoo! Groups Links
> >>
> >>
> >>
> >>
> >
> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
> >
> >
>
>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1514. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-10 23:38:00 UTC
From: Mike Manes
Topic: 1502 Message: 1514

Hi Robert,

Hey, thanks for that detailed description!

One question that came to mind during your presentation at UNO, (but lost
during our slow merry-go-round ride!):

Where do you locate the center of the circle that you cut for the load ring?

And I'd like to add some emphasis to your caveat re recovering the balloon: livestock, especially the ruminants that supply Big Macs, can be killed by eating that film - it binds up in their GI tract.

Bad news for the cow, but pretty nasty for the club if they get hit for a bill for the beef on hoof!

This is why EOSS always attaches a separate beacon to its plastic balloons, even tho we cut it away from the payload string.

If EOSS >every< finds itself fortunate enough to experience a Sat AM with zero wind (very rare!), we may try it!

73 de Mike W5VSI

"Rochte, Robert" wrote:
>
> [Harry: I've copied this to the GPSL group, etc., since others have asked
> similar questions and your email is the first to which I am responding. I
> hope you don't mind!]
>
> Thanks for writing. I'm only at the Academy every few days during the
> summer, so my email sometimes stacks up a bit. Thanks also for the kind
> words... Regarding SD9, the payload was recovered today with a little help
> from a high-tech slingshot!
>
> About building a solar tetroon... You could lift a three pound payload to
> about 65k feet using one of my standard Sky Diamond designs (what I
> typically use for school programmes). These are made from 8 or 9 micron
> high-density polyethylene film (thicker film could be used but the design
> would need to be scaled up significantly). Such film is typically sold in 9
> and 12 foot rolls - buy the 12 foot.
>
> Roll the film down a long hallway and measure out 55.5' (that's no typo -
> fifty-five and a half feet). Cut the film at this point, and then do the
> same thing again. That is, you will need two 12' x 55.5' sheets to begin

> construction.
>
> Now open up the two sheets (the rolls are usually folded down to about 1.5')
> and seal them together along one of the long sides (I'm tired, so please
> forgive my less-than-clear writing at the moment). You want to end up with
> a big sheet that measures 24' x 55.5' (if you can find 24' wide film then
> you can skip this step).
>
> How to seal them together? You can use tape (just use normal Scotch tape -
> no need for heavy packing tape ala the boys in France) or you can heat seal
> using a hobby iron, converted soldering iron, vacuum-pack food sealer or
> industrial-type heat sealer (like I use). You could probably even do it
> with Super 77 if you just felt like being different, but I wouldn't
> recommend it!
>
> Ideally, the seal should be made with a lap seam of some kind or other -
> this isn't critical, though, and unless you're taping the pieces together it
> probably won't be too practical.
>
> Okay, now that you have your giant sheet of film, you need to seal the two
> 24' edges together. Again, use whatever method works for you. Tape demands
> extra hands to hold the film, etc., but is the lowest-tech approach and
> works fine. When you have completed this step, you should have a large tube
> of plastic film that measures 24' long with a circumference of 55.5'. You
> won't be able to actually see this tube, of course, because the film will be
> all over your floor - but you need to keep the idea in your mind so that you
> don't get the various edges confused.
>
> Next step, sealing one of the edges of the actual tetroon... It is as
> simple as sealing one of the ends of the large tube - just start at the seam
> that you just created and seal one of the ends all the way across (since the
> length of the original sheet is now folded in half, the length of this seam
> will be 1/2 the original sheet length or about 27.75').
>
> At this point you have a plastic pillow case suitable for a
> Jack-and-the-beanstalk type giant. If you sealed off the other end in
> exactly the same way as the first, you would have created a "pillow
> balloon". This is a very simple shape but really has nothing to recommend
> it. It's so easy to improve on a pillow balloon - either by making a proper
> cylinder (albeit with a little loose fabric) or else a tetroon - that the
> pillow balloon really should remain an historical footnote amongst balloon
> designers.
>
> Okay, how to make a tetroon? Just seal the remaining end at a 90 degree
> angle to the opposite side and you'll have it. That is, picture the pillow
> balloon (or a pillow case) with both ends closed in the same way (straight
> seals that are parallel to one another). Now imagine one of the ends sealed
> the "other" way - not parallel to the first side, but instead perpendicular
> to it. (Some people stumble here, but as soon as you see it you'll wonder
> how anyone can be confused!). If somehow you just can't grasp this, then go

> to the late-night drive-thru window at Wendy's and order a baked potato with
> sour cream. The sour cream packets at Wendy's - last I saw, anyway - are
> made the same way (though the dimensions are a little off and so the
> tetrahedron isn't regular).
>
> Your basic tetroon is now completed. The final step in constructing the
> envelope is to cut the mouth and attach the load ring. First, decide on the
> size of the mouth (and thus the load ring). Note that I am only discussing
> the simplest possible arrangement here - the basic Sky Diamond design - and
> thus a rigid load ring is assumed. I usually use a full-size hula hoop (or
> dollar-store equivalent) for the load ring and these measure somewhere
> between 32" and 36". The mouth will be cut slightly larger so that no
> circumferential stress is created at the mouth.
>
> To do this, lay out one of the corners of the envelope on your cutting
> surface (it needs to be rather large) and straighten out the film so that
> there are no wrinkles or folds. Now cut an arc equal in radius (from the
> corner) to the desired mouth diameter. For the basic Sky Diamond tetroon, I
> usually cut a 4' mouth. Note that a rotary cutter really comes in handy
> here - I just lay my measure down and mark the 4' radius every few inches
> with a permanent marker, then cut the arc out freehand using the rotary
> tool.
>
> If you're using tape to seal the entire balloon, you could now just fold a
> cuff of 2-3" all around the mouth and tape this (very well!) to the
> envelope. This will form a sleeve into which the load ring (i.e.., hula
> hoop) can be slid. You'll need to make a slit somewhere along the sleeve,
> of course, to actually insert the ring.
>
> If you're using a heat sealer or some other method besides tape, then you
> probably want to use a separate sleeve and attach it to the mouth. For the
> academic SD design, I typically use HDPE garbage bags. You can cut the
> edges of the bags off in 3" strips and the existing fold (i.e., along the
> edge of the bag) will form the bottom of the sleeve. Heat seal or otherwise
> attach these sleeves (you'll need multiple pieces unless you're cutting the
> sleeve from a long roll of lay-flat tubing) to the mouth and you're done.
>
> (Why use the separate sleeve? Because it is very difficult to ensure a
> strong seam when heat-sealing the very thin balloon material to itself...
> The film varies greatly in thickness along its width and the heat sealer
> will seal some areas perfectly and melt holes in others. This is fine for
> low stress areas of the envelope but results in catastrophe if it happens
> along the mouth.)
>
> Last but not least, take the hula hoop apart (emptying any contents like
> beads or water) and slid it into the sleeve. Carefully poke a few holes
> through the sleeve - just above the top of the load ring (no longer just a
> hula hoop!) - and attach your suspension lines. Given a 1-2 kg payload, I
> would typically use 6-8 lines. I have used as few as four - this worked
> once and failed another time. More than eight and they're just getting

> tangled all the time. Make sure that these lines - once tied around the
> load ring - are equal in length and then tie them together. This is where
> your load line (to the parachute, payload, etc.) will be tied.
>
> At this point, the envelope is complete. I usually don't add the solar
> absorber (tempera paint, in the case of the Sky Diamond) until I reach the
> flying field - it *will* leak out and get on your clothes, car, etc. and it
> can really make a mess.
>
> Once you're at the launch site, take about four ounces of powdered paint and
> dump it into the envelope. Now gently pull, tug and shake the envelope to
> completely coat the inside with the paint. Four ounces is really too much,
> but you'll definitely have enough that way... So once the entire thing is
> coated (it will look grey instead of white), dump the excess paint back out
> of the mouth.
>
> NB: You MUST use a non-flammable powder as your solar absorber! Using
> powdered charcoal or other potentially flammable substances can result in a
> MASSIVE explosion and cause severe injury and possibly even death! Think
> "grain elevator explosion" and you'll know what I'm talking about... I
> settled on tempera paint not because it was the best substance for absorbing
> solar radiation, but because it works good enough and is 80% calcium
> carbonate - and thus entirely non-flammable. DO NOT IGNORE this important
> matter or you will be risking life and limb - you have been warned and I
> cannot be held responsible for stupid decisions made by stupid people!
>
> Ah, I feel better now... Where were we? The envelope is built, the rigging
> is attached to the load ring, the solar absorber has been distributed
> throughout the balloon and by now you've already attached your payload to
> the rigging. It's time to fly!
>
> Look around you - are the leaves jiggling on the trees? Are there light
> gusts, maybe to five mph or so? If so, then you might be really sad in a
> few minutes... I suggest bagging the balloon up again and waiting for an
> absolutely calm morning. A launch can be done in light winds, but you will
> need a very large field and lots of patience. A little Valium wouldn't
> hurt, either.
>
> So let's assume that the conditions are just right - calm, cool (<20C), and
> with the sun up for at least an hour. (What's the minimum solar elevation
> by season to ensure launch of a typically loaded Sky Diamond? Beats me -
> but it would make a perfect science fair project!) The first step is to get
> air into the tetroon. You can use a leaf blower (be careful, though, or
> you'll tear a hole in the gossamer film), a household fan or you can simply
> do deep-knee bends while hold the mouth and thereby pump air into the
> balloon. My first launches all used a leaf blower - I now use the deep-knee
> bend technique almost exclusively.
>
> If the conditions are really great (cold, calm air, crystal clear skies with
> no cirrus or haze), then you'll notice lift almost immediately. One of the

> corners of the tetroon will lift off the ground as soon as it has some air
> in it and the entire balloon will be airborne before it is even half full.
> Typically, though, it takes a little longer than this - but not more than a
> few minutes unless there is a breeze (and thus forced-convective cooling - a
> really bad thing for a solar Montgolfiere).
>
> Once the balloon is in the air, hold onto your payload loosely and wait for
> the balloon to take it from you. As with all balloons, watch out for false
> lift (with calm conditions you won't need to worry). The ascent will be
> majestic and perhaps nerve-wracking for those familiar with latex weather
> balloon launches - it is VERY slow at first and will settle out around
> 300-400 fpm (I think I mistakenly said around 500 fpm at the GPSL
> conference). Again, you can see why wind is the enemy of solar balloons -
> my most recent Sky Diamond couldn't clear a 40' tree that was 75 yards away!
>
> Peak altitude will take a couple of hours and descent will begin about 30-45
> minutes before local sunset. If you let the payload just ride the balloon
> all the way down (which I always do), it should be on the ground about three
> hours after the descent begins.
>
> A descent can be commanded (as Ron Armstrong, VE2JOR, has requested for his
> group's solar tetroon) by simply flipping the tetroon upside down. This is
> accomplished by tying lines to each of the three top corners of the envelope
> and securing these to the payload (usually via a single suspension line - it
> looks something like the crown line on a conventional hot air balloon).
> Descent is initiated by cutting the primary suspension and thus inverting
> the balloon. Note that you'll need to rely on your parachute to slow the
> descent if you choose this method. This extra line can also be used for
> ground-handling in light winds (like a crown line) or to abort a launch.
>
> To those who may not be hams or are otherwise contemplating the free-flight
> of non-tracked balloons: Please don't fly one of these without a tracker of
> some kind. This is a large balloon made from non-biodegradable plastic film
> that can have significant impact on the environment if it is not retrieved.
> If you fly one, make sure that you can get it back! The liability that you
> create is YOUR OWN and it could be massive - you have been warned (again).
>
> Let me know if anyone has any questions... This was written in one session
> and not proofed, so there may be some things that make no sense at all - if
> you find something like that, please point it out. I will post an edited
> version of this message on my web site in the next few days.
>
> Regards,
> Robert
> KC8UCH
>
> --
> Robert Rochte
> Director of Technology
> The Grosse Pointe Academy

> 171 Lake Shore Road
> Grosse Pointe Farms, MI 48236
> Tel. +1 313-886-1221 x155
> FAX +1 313-886-1418
> http://mail.gpacademy.org/~rochter
>
> -----Original Message-----
> From: Harry M [mailto:hhm_74115@...]
> Sent: Saturday, July 09, 2005 11:02 PM
> To: Rochte, Robert
> Subject: Solar Tetroon
>
> Hi Robert,
>
> I resent this in case you didn't get the first one.
>
> Sorry to hear about the misfortune on Sky Diamond 9. Better luck next time!
>
> Thanks for the very informative lecture at GPSL, it was very MOVING! :)
> I didn't get a chance to speak with you while you were there. I am
> interested
> in making a tetroon. Can you give me the basic dimensions/stats or any other
> info that might help. I would like to make one to lift about 3 pounds. I
> plan to
> use the painters plastic & tempera paint as you recommended at GPSL.
>
> I have a 4 meter solar balloon cut from plans on
> http://perso.wanadoo.fr/ballonsolaire/en-index.htm
> I haven't taped it together yet. I hope to do so soon.
>
> 73 Harry - KC5TRB
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1515. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 00:53:49 UTC
From: Don KA0JLF
Topic: 1502 Message: 1515

It was that last seam, "90 degrees perpendicular" to
the other. That just threw me,no reason it should
(except as I said in the first email "I'm not a smart
man", at least not know, if I ever was). I was also
trying to remember that darn package of sour cream
from Wendy's. I knew I had seen it before. It just got
real murky for me. ;-)

While Cris was driving us to Wendy's I read it
out-loud (always helps) and she got it right off. They
she was trying to explain it to me too.

Unfortunately, we didn't make it to Wendy's we got a
call from my Mom and ended up running to the hospital
(dad's been in and out for the last few weeks, this
time in since last Thursday). But I did get a lot of
quiet reading time in the waiting rooms while he was
in being worked on.

Thanks everyone for the help. I hope to have a model
put together tonight.

73
Don

--- Harry M <hhm_74115@...> wrote:

>
> Now your making the connection (synaptic that is)!
> Just visualize 4 equalateral triangles.
>
> hm

_____
Sell on Yahoo! Auctions ? no fees. Bid on great items.
http://auctions.yahoo.com/

1516. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 00:58:31 UTC
From: Don KA0JLF
Topic: 1502 Message: 1516

I had the same, or similar questions, about the load
point, but hadn't gotten that far. ;-)

--- Mike Manes <manes@...> wrote:

> Hi Robert,
>
> Hey, thanks for that detailed description!
>
> One question that came to mind during your
> presentation at UNO, (but
> lost
> during our slow merry-go-round ride!):
>
> Where do you locate the center of the circle that
> you cut for the load
> ring?
>

_____
Sell on Yahoo! Auctions ? no fees. Bid on great items.
http://auctions.yahoo.com/

1517. Re: [GPSL] GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 00:58:27 UTC
From: Harry M
Topic: 1468 Message: 1517

FYI - If it's in June ORB will not be there.
I already have plans for almost the entire month.

Harry - KC5TRB

1518. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 01:18:43 UTC
From: Harry M
Topic: 1502 Message: 1518

Seam Sealing

I was playing with some .5 mil plastic and a "Global Custom Sealing Iron" without a cotton sock. The iron is used on R/C aircraft covering. I was using it to try to seal the seams on the plastic. The temperture control is too course. It's either too hot or just not quite hot enough. Other than buying a seam sealer, like Robert has, tape seems to be the way to go. The big problem with tape is STATIC. As the tape nears the plastic, the plastic will jump up and attach itself to the tape, and 99 times out of 100, it will not be where you want it.

Some of you vinyl record buffs may remember a device that looked like a small pistol that was used for static neutralization. Mine is called a ZEROSTAT and was distributed by DISCWASHER. On the pull of the trigger it discharges ions of one polarity and upon release of the trigger it discharges ions of the opposite polarity. At least that's the way I understand it's operation. Static is then eliminated!
I will experiment with this further.

73 Harry - KC5TRB

>
> Thanks everyone for the help. I hope to have a model
> put together tonight.
>

1519. RE: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 03:02:44 UTC
From: Rochte, Robert
Topic: 1502 Message: 1519

Static - that's why I said that tape needs more people! :D You need a couple of people to hold the film in place and then one (or more) to apply the tape.

The hobby iron will work with 1/2 mil poly. Just put a sheet of copy paper (plain old 20 lb bond) over the plastic and iron over the top of it. My early solar balloons (at the bottom of my web page) were all built this way.

Keep working on it and good luck!

-R

>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
>Harry M
>Sent: Sunday, July 10, 2005 9:19 PM
>To: GPSL@yahoogroups.com
>Subject: Re: [GPSL] RE: Solar Tetroon
>
>
>
>Seam Sealing
>
>I was playing with some .5 mil plastic and a "Global Custom
>Sealing Iron"
>without a cotton sock. The iron is used on R/C aircraft covering. I was
>using
>it to try to seal the seams on the plastic. The temperture
>control is too
>course.
>It's either too hot or just not quite hot enough. Other than
>buying a seam
>sealer,
>like Robert has, tape seems to be the way to go. The big
>problem with tape
>is
>STATIC. As the tape nears the plastic, the plastic will jump
>up and attach
>itself
>to the tape, and 99 times out of 100, it will not be where you want it.
>
>Some of you vinyl record buffs may remember a device that looked like a
>small
>pistol that was used for static neutralization. Mine is called
>a ZEROSTAT
>and

>was distributed by DISCWASHER. On the pull of the trigger it
>discharges ions
>of one polarity and upon release of the trigger it discharges
>ions of the
>opposite
>polarity. At least that's the way I understand it's operation.
>Static is
>then eliminated!
>I will experiment with this further.
>
>
>73 Harry - KC5TRB
>
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>>
>> Thanks everyone for the help. I hope to have a model
>> put together tonight.
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>Yahoo! Groups Links
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1520. Finding the mouth RE: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 03:12:14 UTC
From: Rochte, Robert
Topic: 1520 Message: 1520

I guess my spam filter swallowed the first copy of this message - sorry for not replying earlier.

It's very simple. Each of the end seams that you make (those which are at 90 degree angles to each other) will form edges of the tetroon. The other edges are harder to determine without inflating it, but can be determined through careful (and rather difficult) measurement.

Given that both of those seams will form edges - and an edge must end at a vertex (which is what we're trying to find) - just spread the envelope out on a large floor, straighten out the film near the end of one of those seams and a nice triangular end will appear. That's one of the vertices of the tetrahedron and as good as any other for the mouth. Measure, cut, seal and you're done.

Let me know if that's not clear.

Regards,
Robert

>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On
>Behalf Of Don
>KA0JLF
>Sent: Sunday, July 10, 2005 8:59 PM
>To: GPSL@yahoogroups.com
>Subject: Re: [GPSL] RE: Solar Tetroon
>
>
>I had the same, or similar questions, about the load
>point, but hadn't gotten that far. ;-)
>
>--- Mike Manes <manes@...> wrote:
>
>> Hi Robert,
>>
>> Hey, thanks for that detailed description!
>>
>> One question that came to mind during your
>> presentation at UNO, (but
>> lost
>> during our slow merry-go-round ride!):
>>
>> Where do you locate the center of the circle that
>> you cut for the load
>> ring?

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>_____
>Sell on Yahoo! Auctions - no fees. Bid on great items.
>http://auctions.yahoo.com/
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>Yahoo! Groups Links
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1521. RE: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 03:24:03 UTC
From: Troy Campbell
Topic: 1502 Message: 1521

Don't you need the static for the thermal energy
absorbing material (the finger paint)? Will
neutralize the charge prevent the powder from sticking
to the inside of the tetroon?

(Just a question).

Troy, KC0MIC

--- "Rochte, Robert" <rrochte@...> wrote:

>
> Static - that's why I said that tape needs more
> people! :D You need a
> couple of people to hold the film in place and then
> one (or more) to apply
> the tape.
>
> The hobby iron will work with 1/2 mil poly. Just
> put a sheet of copy paper
> (plain old 20 lb bond) over the plastic and iron
> over the top of it. My
> early solar balloons (at the bottom of my web page)
> were all built this way.
>
> Keep working on it and good luck!
>
> -R
>
>
> >-----Original Message-----
> >From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com]On Behalf Of
> >Harry M
> >Sent: Sunday, July 10, 2005 9:19 PM
> >To: GPSL@yahoogroups.com
> >Subject: Re: [GPSL] RE: Solar Tetroon
> >
> >
> >
> >Seam Sealing
> >
> >I was playing with some .5 mil plastic and a
> "Global Custom
> >Sealing Iron"
> >without a cotton sock. The iron is used on R/C

> aircraft covering. I was
> >using
> >it to try to seal the seams on the plastic. The
> temperture
> >control is too
> >course.
> >It's either too hot or just not quite hot enough.
> Other than
> >buying a seam
> >sealer,
> >like Robert has, tape seems to be the way to go.
> The big
> >problem with tape
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> >STATIC. As the tape nears the plastic, the plastic
> will jump
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> be where you want it.
> >
> >Some of you vinyl record buffs may remember a
> device that looked like a
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> >pistol that was used for static neutralization.
> Mine is called
> >a ZEROSTAT
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> >was distributed by DISCWASHER. On the pull of the
> trigger it
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> discharges
> >ions of the
> >opposite
> >polarity. At least that's the way I understand it's
> operation.
> >Static is
> >then eliminated!
> >I will experiment with this further.
> >
> >
> >73 Harry - KC5TRB
> >
> >
> >
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> >>
> >> Thanks everyone for the help. I hope to have a
> model

> >> put together tonight.
> >>
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http://mail.yahoo.com

1522. RE: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 03:19:00 UTC
From: Rochte, Robert
Topic: 1502 Message: 1522

The static charge will come back, don't worry!

>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
>Troy Campbell
>Sent: Sunday, July 10, 2005 11:24 PM
>To: GPSL@yahoogroups.com
>Subject: RE: [GPSL] RE: Solar Tetroon
>
>
>Don't you need the static for the thermal energy
>absorbing material (the finger paint)? Will
>neutralize the charge prevent the powder from sticking
>to the inside of the tetroon?
>
>(Just a question).
>
>Troy, KC0MIC
>
>--- "Rochte, Robert" <rrochte@...> wrote:
>
>>
>> Static - that's why I said that tape needs more
>> people! :D You need a
>> couple of people to hold the film in place and then
>> one (or more) to apply
>> the tape.
>>
>> The hobby iron will work with 1/2 mil poly. Just
>> put a sheet of copy paper
>> (plain old 20 lb bond) over the plastic and iron
>> over the top of it. My
>> early solar balloons (at the bottom of my web page)
>> were all built this way.
>>
>> Keep working on it and good luck!
>>
>> -R
>>
>>
>> >-----Original Message-----
>> >From: GPSL@yahoogroups.com
>> [mailto:GPSL@yahoogroups.com]On Behalf Of
>> >Harry M
>> >Sent: Sunday, July 10, 2005 9:19 PM

>> >To: GPSL@yahoogroups.com
>> >Subject: Re: [GPSL] RE: Solar Tetroon
>> >
>> >
>> >
>> >Seam Sealing
>> >
>> >I was playing with some .5 mil plastic and a
>> "Global Custom
>> >Sealing Iron"
>> >without a cotton sock. The iron is used on R/C
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>> >control is too
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>> >It's either too hot or just not quite hot enough.
>> Other than
>> >buying a seam
>> >sealer,
>> >like Robert has, tape seems to be the way to go.
>> The big
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>> >is
>> >STATIC. As the tape nears the plastic, the plastic
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>> >up and attach
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>> >to the tape, and 99 times out of 100, it will not
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>> >
>> >Some of you vinyl record buffs may remember a
>> device that looked like a
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>> Mine is called
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>> >and
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>> >then eliminated!

>> >I will experiment with this further.
>> >
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>> >73 Harry - KC5TRB
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>> >> Thanks everyone for the help. I hope to have a
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>Do You Yahoo!?
>Tired of spam? Yahoo! Mail has the best spam protection around
>http://mail.yahoo.com
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>Yahoo! Groups Links
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1523. CAPNSPACE GPSL Flight narrative

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 09:59:43 UTC
From: kc0mic
Topic: 1523 Message: 1523

The following is rather long but I'm posting it at Mark's urging.
(That's right, I'm going to blame it on Mark).

The recap, stats, data and pics are at:

http://www.capnspace.org/Missions/?dir=cns-003a

73 de Troy KC0MIC

CAPNSPACE (Civil Air Patrol Near Space program) CNS-003a

We had 3 'firsts' this year.

1) This flight marked the first flight made at a GPSL. Last year we
were observing at GPSL-2004 in hopes of starting a program.

2) This flight marked the first flight CAPNSPACE made as a member of
the Near Spaces Ventures, group. In conjunction with that, we
worked with a BSA venture group.

3) This flight marked the first flight that we recovered without any
'outside assistance' (ie the farmer didn't find it before we did
and call us.)

LAUNCH:
At 7:00 we arrived at Traynor high school and began setting up.

The winds were still light and it was about 70F.

After another group had began to fill their launcher (balloon), we
noticed that the wind was just starting to pick up and decided that
we'd fill our balloon and be ready for launch should the wind start
to pick up any more.

It was decided that we'd put in more lift the we normally would to
get the package out of the ground winds and past 40,000ft quicker
than normal.

We launched at 8:10am CDT about 5 minutes after the first launch.
The climb rate was about 1,100 fpm. (That is an estimate until the
data from the flight recorder can be analyzed).

We packed and split into three teams and left the launch area right
after 5 more groups launched.

TRACKING:
The APRS telemetry showed that the flight path was following the
flight projection fairly closely.

Almost immediately after takeoff, the tracking system froze up for chase team 1. Team 3's tracking equipment never did work. Team 1 rebooted and got some limited functionality for maps and vehicle location but the KPC 3+ TNC stopped working altogether. Chase Team 2's equipment was working perfectly.

At this point, Team 1 and 2 departed east on highway 92 to highway 71 to stay ahead of the balloon. Team 3 remained to try to get the tracking system working. The 2m simplex repeater on-board the spacecraft worked great so all the teams stayed in contact .... up to a point....

The spacecraft is equipped with an ELT on a practice frequency of 121.775mhz. Every 5 minutes the flight control computer would turn the ELT on for 1 minute. When the spacecraft neared apogee, the flight controller latched the ELT on so that it could be tracked on the way down.

The problem was that the ELT would modulate the 2m simplex repeater. We still don't know if the issue was the proximity of the antennas or if the ELT or 2m transmitter need to be shielded or both or all three. In any case, when the ELT latched 'on' the simplex repeater became pretty much useless. It would still key-up but whatever voice traffic was on it was drown out by the ELT. Because of that Teams 1 and 2 lost contact with Team 3 about an hour into the flight.

Team 2's (Keith Kaiser, WA0TJT and Deb Kaiser) tracking equipment was still working fine so Team 1 (Troy Campbell, KC0MIC and Cindy Campbell, KC0RRW) stayed within simplex range and both teams stopped just outside Grant . The balloon had pretty much stopped forward motion over Elliot and climbed to 95,082 feet and burst just a little west of Elliot. What was interesting was that if you keep the meter on the ELPER 'centered' you could get a fair sense of the elevation as well as the direction. The DFing fixes agreed with the APRS data, which was gratifying. I was worried that we wouldn't be able to track it with only one set of APRS equipment. The ground teams departed for a position between Elliot and Grant.

RECOVERY:
Keith on team 2 had binoculars and spotted it at about 3,000 ft after it had passed over us but lost it over a hill. The last APRS posit was from 2,400ft at a little past 10:00am CDT. We made for that spot. Team 2 was already there and searching a corn field (Iowa = Corn, probably should have guessed the landing obstacles). Joe Lynch, N6CL, editor of CQ-VHF was on the scene also to help search.

After a bit of that, I broke out the 'ELPER' and took a couple of fixes on the ELT. It was still strong showing the signal coming from further north but basically straight up the road. If you look at the track from the APRS data you'll see that the package flew up the road and landed within 20 feet of it. Unfortunately, the corn

was taller than I was and the fence propagated the signal in many wonderful ways.

Even though the ELPER was pointing to the package correctly the terrain was very hilly with intermittently spaced tree lines, creeks and terrace ridges. The owner of the farm arrived about midway through the search and attempted to help from the top of his almost 2-story harvester but it was on the ground in the Tall Corn and just couldn't be seen.

After about 2.5 hours, we'd isolated it to a 50ft patch of corn using an aircraft radio and 'body nulling'. When I couldn't get a null any longer, I took the antenna off the radio, held it away from me and parallel to the ground and started walking the rows till the signal indicated I was within a few feet of it. I literally tripped over the package.

It was 12:30 CDT now and everyone was hot, tired and hungry. Team 3 (Mike Hackley, KC0SGD) arrived while I was searching around the corn field. After we'd recovered the near-spacecraft, Mike and I shut everything down, retrieved the flight recorder, the RAM card from the digital camera and the film from the film camera.

The digital camera looked like it impacted something pointy and we had to pry the RAM card out of it. The camera will have to be replaced.

We drove back toward Omaha stopping at 'The Rose' family restaurant in Traynor.

Things we learned and that need improvement:

RECOVER OPERATIONS:
The ground tracking equipment in the chase vehicles needs to be 'hardened' and tested.

We need to practice as a team more. When the teams become separated, common frequencies and contact procedures need to be used.

Standard DFing procedures need to be documented and practiced.

Several other 'standards' need to be discussed. Simple things like "What notation should everyone use for Latitude/Longitude?"

FLIGHT OPERATIONS:
An additional crew is needed for coordination of the flight phase, from launch to just after burst.

When we launch a package for a group or specific science or instrument package (ala the 2 meter simplex repeater) a person dedicated to controlling the package needs to be on the team. For example, the 2m simplex repeater was enabling contacts in Champaign

Illinois and Independence Missouri but there was nobody to log the traffic.

LAUNCH OPERATIONS:
This went pretty smoothly except that while we had decided to use more lift that we normally would, we used too much. We'd wanted 2.5 lbs and ended up with 3.8 lbs. We need to add a check list for the launch vehicle (balloon) similar to the payload power-up and attachment checklist.

While we want to encourage visitors and participants, there is a time when it would be real useful to have a "sterile" launch area. (This is also a safety issue.) Stanchions and tape or orange rope might work.

ENGINEERING:
The CAPSTAR-1A near-space frame is nearing it's end-of-life. Its getting pretty beat up. Another 1 or 2 frames need to be built and readied to fly.

The RF crosstalk between the ELT and the 2meter FM rf sections needs to be addressed.

A commanded cut-down device needs to be installed so that we can fly larger payloads.

GPSL suggestion.
GPSL-2005 was Great! Mark Conner, N9XTN, did a super job pulling it all together. The conference topics and speakers were VERY interesting and informative. There were ten balloons launched and over 65 people attending. It was great to work with everyone I'd met last year and meet new groups.

I did hear a good suggestion that at the next GPSL there be a "net control station and operator". The controller's job wouldn't necessarily be to coordinate a net. (There was very little congestion on the local repeater). But the controller _could_ facilitate communication between different groups when, for example, a group needed help with recovery operations or they wanted to cross check their own tracking with another group.

1524. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 13:35:16 UTC
From: Harry M
Topic: 1502 Message: 1524

The ZEROSTAT is only a lacalized neutralizer.
As Robert stated, the static will come back!

Harry

> Don't you need the static for the thermal energy

1525. RE: [GPSL] Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 16:10:56 UTC
From: Holmes, Will
Topic: 1475 Message: 1525

Taylor's Payload landed at

N 41 9.48

W 95 4.262

Alt: 1260.53

We had a 1,000 ft walk through a corn field to pick it up.

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Friday, July 08, 2005 10:07 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Landing site coordinates for all flights?

ORB

4108.89N/09459.37W

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on the web.

* To unsubscribe from this group, send an email to:
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<http://docs.yahoo.com/info/terms/> .

1526. Equipment needed to track the balloons in the field?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 16:18:37 UTC
From: Jim
Topic: 1526 Message: 1526

Group,

I am fascinated by the tracking of the balloons and want to get
actively involved in the tracking.

Questions - What equipment do I need to track the balloons?

1. I have a Toshiba laptop running Windows Xp. Pentium 4

2. Considering the purchase a TM-700A dual band radio

3. Have a 70 cm handheld W 32 A

4. 2 meter mobile rig and dual band antenna.

5. Have a Garmim GPS 12 GPS unit I use when hunting and Geocaching.

What else do I need? Software etc... and recommendations and an
ELMER I can call upon for assistance.

I believe I need a GPS unit with data ports running maritime protocol.

Tnx in advance:

Jim N0AJI

1527. Re: ORB-18 {POSTFLIGHT)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-11 20:34:16 UTC
From: Harry M
Topic: 1527 Message: 1527

Kent W9KAO,

I can't seem to get mail through to you for some reason.
It keeps bouncing back so I will post it here.

Once again I would like to thank you and your family
for all the help with the ORB-18 flight. It was nice
to meet you all and run around the countryside together.
I hope you had a safe trip home.

I forgot your younger son's name and I also forgot to
write it down. I am putting a few pics on the web site
and I need his name for it. I met so many new people
I'm having trouble remembering everyone. Did you also
have a daughter along? I may be confused as usual! :)

Thanks for the log. I do appreciate it!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1528. Re: Landing site coordinates for all flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-12 02:15:06 UTC
From: jerometonneson
Topic: 1475 Message: 1528

HABITAT/Skylab landed at:

41d 08.54m
95d 06.01m

--- In GPSL@yahoogroups.com, wb8elk@a... wrote:
>
> Can each group post a listing here of their final landing coordinates...I'd
> like to plot them on a map.
>...

1529. New file uploaded to GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-12 02:22:21 UTC
From: GPSL@yahoogroups.com
Topic: 1529 Message: 1529

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the GPSL
group.

File : /GPSL 2005 Logs/gpsl_data_from_14436.txt
Uploaded by : jerometonneson <jerome@...>
Description : Data from 144.36 MHz received by W0JRT-7 (mobile)

You can access this file at the URL:
http://groups.yahoo.com/group/GPSL/files/GPSL%202005%20Logs/gpsl_data_from_14436.txt

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

jerometonneson <jerome@...>

1530. Re: [GPSL] Equipment needed to track the balloons in the field?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-12 03:09:47 UTC
From: Kent Ochs
Topic: 1526 Message: 1530

Jim,

My favorite software is UIView interfaced with Under Tow software Precision Mapping v6.0. If you hook your GPS up to the D700, UIVIEW will redirect the GPS information to the mapping program and you will be able to track both the balloon and your location at the same time. Any GPS outputing NMEA will work.

If you have any questions you can reply through the group or directly to me at kentochs@...

73's

Kent Ochs
W9KAO

Jim <jpbairkc@...> wrote:
Group,

I am fascinated by the tracking of the balloons and want to get
actively involved in the tracking.

Questions - What equipment do I need to track the balloons?

1. I have a Toshiba laptop running Windows Xp. Pentium 4

2. Considering the purchase a TM-700A dual band radio

3. Have a 70 cm handheld W 32 A

4. 2 meter mobile rig and dual band antenna.

5. Have a Garmim GPS 12 GPS unit I use when hunting and Geocaching.

What else do I need? Software etc... and recommendations and an
ELMER I can call upon for assistance.

I believe I need a GPS unit with data ports running maritime protocol.

Tnx in advance:

Jim N0AJI

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To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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1531. Re: [GPSL] Equipment needed to track the balloons in the field?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-12 13:09:48 UTC
From: Chris Krengel
Topic: 1526 Message: 1531

Hi Jim,

sounds like you have most of the tools required to track a balloon, some are using UI-view and precision maps and some are using APRSplus SA(Street Atlas 7,8,or 9 Street Atlas will not support any newer versions. Make sure that you have radio direction finding equipment, like a good yagi and attenuator and the knowledge to use it practice practice practice! DF'ing has saved EOSS's bacon on many occasions. What state are you in? There are many groups in the country that do this stuff and it might be good to visit one of their launches and talk first hand to the recovery crews and see what they are using. As for EOSS we would love to see you at one of our activities, and I know that any other group would like to have you visit and pick their brains too!
Chris kb0yrz
EOSS recovery crew

--- Jim <jpbairkc@...> wrote:

> Group,
>
> I am fascinated by the tracking of the balloons and
> want to get
> actively involved in the tracking.
>
> Questions - What equipment do I need to track the
> balloons?
>
> 1. I have a Toshiba laptop running Windows Xp.
> Pentium 4
>
> 2. Considering the purchase a TM-700A dual band
> radio
>
> 3. Have a 70 cm handheld W 32 A
>
> 4. 2 meter mobile rig and dual band antenna.
>
> 5. Have a Garmim GPS 12 GPS unit I use when hunting
> and Geocaching.
>
>
> What else do I need? Software etc... and

> recommendations and an
> ELMER I can call upon for assistance.
>
>
> I believe I need a GPS unit with data ports running
> maritime protocol.
>
>
>
> Tnx in advance:
>
> Jim N0AJI
>
>
>
>
>

_____
Sell on Yahoo! Auctions ? no fees. Bid on great items.
http://auctions.yahoo.com/

1532. Re: Equipment needed to track the balloons in the field?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-12 16:41:38 UTC
From: K. Mark Caviezel
Topic: 1526 Message: 1532

Jim:
My favorite set up is the one I have: Kenwood D7 HT interfaced to older Garmin 12XL GPS unit, with a 19" whip on the roof. Using this set up alone, I've tracked many EOSS and "ES-OS" balloons and gotten video of the payloads hitting the ground. This set up really comes into it's own out in eastern Colorado 'mile square farm grid' dirt roads as a ground borne ham can have excellent mobility with grid roads. I usually suppliment it with a co-driver with their nose in a map, but I tend to drive faster than most of them can read the map. Anywhere without grid roads and the more advanced set up with moving map display will have a big advantage.

Chris is absolutely right- there is no substitute for DFing, and I would add 'optical DFing'. Bring a youngster with 20-20 or better vision. They'll have a blast, and in good conditions you can (and I have) optically tracked balloon payloads down to the ground.

It's a lot of fun- good luck!

73's

-KMC ng0x Denver

1533. Re: [GPSL] Re: Equipment needed to track the balloons in the field?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-13 08:35:10 UTC
From: wb8elk@aol.com
Topic: 1526 Message: 1533

I currently rely on a Kenwood D700 with a Garmin 35 GPS on the roof....while a moving map display is nice, it's difficult to mount a laptop in my little Sentra and if it's just me tracking it's virtually impossible to drive and look at a laptop map, I just rely on the handy dashboard display on the D700 that tells me just how far away I'm from the descending payload and also the speed and heading of the payload as well all on one screen. Before a flight, I usually run the descent profile on Balloon Track at several altitudes to give me an idea where I should be in relationship to the payload as it comes in and refine my position near the end with the realtime data on my D700 display.

Without a laptop map display, I can usually see the parachute coming in near me. I do occasionally stop and glance at a DeLorme book map of the state to see what roads will get me where I need to go (provided they have one for your area).

You can do the same thing with the Kenwood D7A but the D700 gives everything you need on one large display screen and that is very convenient as the payload is about to land and you have to make some quick decisions.

As those who recently attended GPSL in Iowa, finding a payload (even when it's telling you it's GPS coordinates) is nearly impossible in a cornfield unless you augment the search with DF equipment or get lucky enough to trip over it (how we found our payload). Arrow Antenna makes some nice handheld antennas that are easily disassembled....also there are plans out there for making a dual-band DF antenna with tape measure tape that works just great, is flexible and survives even the worst cornfields, brush, etc. Since my HT has an SMA connector on it, I buy the very compact SMA barrel attenuators (got mine very cheaply at DownEast Microwave on their surplus page) and just screw then onto the HT as I get close-in....this is a necessity when using signal strength DFing even with low power beacons. I usually keep a 10 dB and a couple of 30 dB attenuators in my shirt pocket and often use them in series as I get close.

The best portable DF unit I've used for balloon tracking is a circuit designed by Paul Bohrer W9DUU which I published in the July 1990 issue of 73 Amateur Radio Today magazine....it's called the "Foxhunt Radio Direction Finder"....I just love how this unit performs....some companies sell similar versions (Ramsey, for example) but they don't have as many neat features as this particular one. It's based on an H-frame set of two vertical dipoles and works on the phase difference of arrival to the two antennas. It has a left-right meter, left-right LEDs and also gives you a left-right high/low tone....You can literally walk right up to a 100-watt transmitter without using attenuators with this unit.

Since 73 is now defunct, I'll scan the article in and post it on my website (www.wb8elk.com) if anyone is interested in building one. I believe that FAR Circuits may still offer circuit boards for this article and I'm thinking of

redesigning it with a smaller PC board so it can be mounted more easily directly on the H-frame antenna. I'm going to be making some boards up for our local group before our next series of student flights, so I'll post the board files on the website when I'm done with it.

73s de Bill WB8ELK
wb8elk@...
http://www.wb8elk.com
http://www.balloonatics.org

1534. Re: [GPSL] Re: Equipment needed to track the balloons in the field?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-13 17:01:31 UTC
From: n9xtn@cox.net
Topic: 1526 Message: 1534

There was an even simpler unit I built based on a 73 article from around 1994 or 1995. Instead of an H shape, the antennas looked like a bowtie. You rotated the unit to produce a null in your receive signal. However, there was a front and back null, so you had to resolve the 180 degree ambiguity yourself. Parts were maybe $5 plus the board. I've never used the W9DUU board as a comparison, but this unit worked pretty well.

I used to chase solo with a laptop, but it was a real pain. Plus it was a little dangerous to have your eyes off the road so much. I find having a laptop with detailed maps available makes the chase go a lot better. Even with a good road grid, you'll find rivers w/o bridges, dead ends, and so on. Having a driver while you work a laptop is the optimum solution in my opinion. Otherwise, a D7/D700 feeding received posits to a GPS is good for solo chasing.

73 de Mark N9XTN

1535. equipment needed to track.... D7 versus D700

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-13 17:27:30 UTC
From: K. Mark Caviezel
Topic: 1535 Message: 1535

Bill raises a good point - laptops in cars - although many hams do it well, do impact vehicle usability. Many of the EOSS core trackers allocate the front passenger seat for laptops and any passengers or riders are relegated to the back seats. No big deal, but some people are a little funny with that.

And although it's common with laptops to crash and reboot, something like the D7 or D700 has a much more robust software set, eliminating time consuming reboots while balloon is making 2000+ foot per minute descent.

(from Bill)
> As those who recently attended GPSL in Iowa, finding
> a payload (even when
> it's telling you it's GPS coordinates) is nearly
> impossible in a cornfield unless
> you augment the search with DF equipment or get
> lucky enough to trip over it

ng0x response:
This is one aspect where the QRP/battery powered set up I run has an advantage. The D7A loads the waypoint into the Garmin 12XL. The Garmin 12XL vector finds with 0.01 mile resolution (minimum distance differential displayed in miles). I either take the GPS/HT aggregate with me, or just take the GPS unit. With constant updates on the handheld GPS unit, I'll get MUCH closer than someone who dead reckons from their car parked on the side of the nearest road. Although I've had many many people tell me about inherant GPS inaccuracies, I ascert that it is 'parking space accurate' as it will get you back to the exact same parking space that you took a waypoint from. There is a noticible difference if you are one parking space to the left or right of the original one. Now, the APRS beacon on the payload may have stellar or substellar accuracy depending if it lands face up or face down..... just another one of the interesting characteristics of this hobby.

- KMC ng0x Denver

1536. Re: Finding the mouth RE: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-14 02:57:09 UTC
From: Mike Manes
Topic: 1520 Message: 1536

Hi Robert,

OK, then the center of the 48" circle is at the end of one of the
made-up seams?

73 de Mike W5VSI
EOSS

"Rochte, Robert" wrote:
>
> I guess my spam filter swallowed the first copy of this message - sorry for
> not replying earlier.
>
> It's very simple. Each of the end seams that you make (those which are at
> 90 degree angles to each other) will form edges of the tetroon. The other
> edges are harder to determine without inflating it, but can be determined
> through careful (and rather difficult) measurement.
>
> Given that both of those seams will form edges - and an edge must end at a
> vertex (which is what we're trying to find) - just spread the envelope out
> on a large floor, straighten out the film near the end of one of those seams
> and a nice triangular end will appear. That's one of the vertices of the
> tetrahedron and as good as any other for the mouth. Measure, cut, seal and
> you're done.
>
> Let me know if that's not clear.
>
> Regards,
> Robert
>
> >-----Original Message-----
> >From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On
> >Behalf Of Don
> >KA0JLF
> >Sent: Sunday, July 10, 2005 8:59 PM
> >To: GPSL@yahoogroups.com
> >Subject: Re: [GPSL] RE: Solar Tetroon
> >
> >
> >I had the same, or similar questions, about the load
> >point, but hadn't gotten that far. ;-)
> >
> >--- Mike Manes <manes@...> wrote:
> >
> >> Hi Robert,
> >>

> >> Hey, thanks for that detailed description!
> >>
> >> One question that came to mind during your
> >> presentation at UNO, (but
> >> lost
> >> during our slow merry-go-round ride!):
> >>
> >> Where do you locate the center of the circle that
> >> you cut for the load
> >> ring?
> >>
> >
> >
> >
> >
> >
> >
> >_____
> >Sell on Yahoo! Auctions - no fees. Bid on great items.
> >http://auctions.yahoo.com/
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> >Yahoo! Groups Links
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> Yahoo! Groups Links
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1537. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-14 02:40:33 UTC
From: Mike Manes
Topic: 1502 Message: 1537

Hi Harry,

Yeah, "static cling" with scotch tape can mess up a lot of stuff - even
with graphic layouts, etc. I found that one can kill off the static
simply by exhaling on the tape - works like a charm. Betcha a
vaporizer would do a creditable job as well for the big jobs.

73 de Mike W5VSI

Harry M wrote:
>
> Seam Sealing
>
> I was playing with some .5 mil plastic and a "Global Custom Sealing Iron"
> without a cotton sock. The iron is used on R/C aircraft covering. I was
> using
> it to try to seal the seams on the plastic. The temperture control is too
> course.
> It's either too hot or just not quite hot enough. Other than buying a seam
> sealer,
> like Robert has, tape seems to be the way to go. The big problem with tape
> is
> STATIC. As the tape nears the plastic, the plastic will jump up and attach
> itself
> to the tape, and 99 times out of 100, it will not be where you want it.
>
> Some of you vinyl record buffs may remember a device that looked like a
> small
> pistol that was used for static neutralization. Mine is called a ZEROSTAT
> and
> was distributed by DISCWASHER. On the pull of the trigger it discharges ions
> of one polarity and upon release of the trigger it discharges ions of the
> opposite
> polarity. At least that's the way I understand it's operation. Static is
> then eliminated!
> I will experiment with this further.
>
> 73 Harry - KC5TRB
>
> >
> > Thanks everyone for the help. I hope to have a model
> > put together tonight.
> >
>
>
> Yahoo! Groups Links

>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1538. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-14 14:10:42 UTC
From: Harry M
Topic: 1502 Message: 1538

Thanks Mike!

How many breaths would it take for 200 ft of tape?
A vaporizer sounds better than hyper-ventilating!

:)

73 Harry

> Yeah, "static cling" with scotch tape can mess up a lot of stuff - even
> with graphic layouts, etc. I found that one can kill off the static
> simply by exhaling on the tape - works like a charm. Betcha a
> vaporizer would do a creditable job as well for the big jobs.

1539. Re: [GPSL] RE: Solar Tetroon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-15 03:30:10 UTC
From: Mike Manes
Topic: 1502 Message: 1539

Hmmmm .... I can do about 2 ft per exhale ... so about 100. At
a tidal rate of 20/minute, that's about 5 minutes of normal breathing.
How fast can you lay down 200 ft of tape?

But yeah, a vaporizer, or a bunch of excited kids, might make that go
a bit easier :=}.

73 de Mike W5VSI

Harry M wrote:
>
> Thanks Mike!
>
> How many breaths would it take for 200 ft of tape?
> A vaporizer sounds better than hyper-ventilating!
>
> :)
>
> 73 Harry
>
> > Yeah, "static cling" with scotch tape can mess up a lot of stuff - even
> > with graphic layouts, etc. I found that one can kill off the static
> > simply by exhaling on the tape - works like a charm. Betcha a
> > vaporizer would do a creditable job as well for the big jobs.
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1540. Herrington Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-16 19:08:09 UTC
From: Jon Riley
Topic: 1540 Message: 1540

Who all is planning to do the launch on Sept. 10?

Is somebody going to take chargeof it?

Just need to know if this is coordinated yet.Is it going to be a
B.Y.O.B of He ??

Jon

1541. Re: [GPSL] Herrington Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-17 15:49:11 UTC
From: Don KA0JLF
Topic: 1540 Message: 1541

Jon, this is NOT a GPSL topic. You were included in
the email as a member of HABITAT SkyLab.

I will be in charge of it. Please keep the emails
within the group or to me personally.

Thank you,
Don

--- Jon Riley <aj0nr@...> wrote:

> Who all is planning to do the launch on Sept. 10?
>
> Is somebody going to take chargeof it?
>
> Just need to know if this is coordinated yet.Is it
> going to be a
> B.Y.O.B of He ??
>
> Jon
>
>
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
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>

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http://www.yahoo.com/r/hs

1542. Re: [GPSL] Herrington Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-17 15:51:41 UTC
From: Jon Riley
Topic: 1540 Message: 1542

Sorry, Lost in translation somewere.....

Don KA0JLF <ka0jlf@...> wrote:
Jon, this is NOT a GPSL topic. You were included in
the email as a member of HABITAT SkyLab.

I will be in charge of it. Please keep the emails
within the group or to me personally.

Thank you,
Don

--- Jon Riley wrote:

> Who all is planning to do the launch on Sept. 10?
>
> Is somebody going to take chargeof it?
>
> Just need to know if this is coordinated yet.Is it
> going to be a
> B.Y.O.B of He ??
>
> Jon
>
>
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
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>
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>
>

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http://www.yahoo.com/r/hs

Yahoo! Groups Links

1543. More GPSL 2005 pictures needed!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-18 00:01:43 UTC
From: Mark Conner
Topic: 1543 Message: 1543

We've got a fair collection so far, but can always use more pictures from GPSL 2005! If you would like to contribute, you can do so one of two ways:

1) FTP your pictures to capnspace.org (no www or ftp in front).

Userid: gpslftp

Password: gpslftp

If you are using Windows, try placing ftp://gpslftp@... <ftp://gpslftp@.../> in your browser and fill in the password at the prompt. A regular FTP client may work better.

2) Send your CD of pictures, video clips, etc., to:

Mark Conner

907 Thurston Ave

Bellevue NE 68123-2452

3) E-mail your pictures to n9xtn@... . I can receive a max of 5 Mb per e-mail and have a 100 Mb box.

73 de Mark N9XTN

1544. Re: [GPSL] More GPSL 2005 pictures needed!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-18 01:43:37 UTC
From: Harry M
Topic: 1543 Message: 1544

Mark,

I will u/l pics soon.
I still have a roll of film in the camera.

73 Harry

We've got a fair collection so far, but can always use more pictures from GPSL 2005! If you would like to contribute, you can do so one of two ways:

1545. Re: [GPSL] More GPSL 2005 pictures needed!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-18 02:22:32 UTC
From: Zack Clobes
Topic: 1543 Message: 1545

Just got back from vacation - I haven't had a chance to do anything from the GPSL launch. I've got quite a bit of stuff I'll try to get uploaded tomorrow.

Zack

Mark Conner wrote:

> We've got a fair collection so far, but can always use more pictures
> from GPSL 2005! If you would like to contribute, you can do so one of
> two ways:
>
>
>
> 1) FTP your pictures to capnspace.org (no www or ftp in front).
>
> Userid: gpslftp
>
> Password: gpslftp
>
>
>
> If you are using Windows, try placing ftp://gpslftp@...
> <ftp://gpslftp@.../> in your browser and fill in the
> password at the prompt. A regular FTP client may work better.
>
>
>
> 2) Send your CD of pictures, video clips, etc., to:
>
>
>
> Mark Conner
>
> 907 Thurston Ave
>
> Bellevue NE 68123-2452
>
>
>
> 3) E-mail your pictures to n9xtn@... <mailto:n9xtn@...> . I
> can receive a max of 5 Mb per e-mail and have a 100 Mb box.
>
>
>
> 73 de Mark N9XTN

>
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>
>
>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
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> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

1546. RE: [GPSL] More GPSL 2005 pictures needed!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-18 03:17:14 UTC
From: Marty Griffin
Topic: 1543 Message: 1546

Hi Mark,
I have been out of town and will be back next week. I will Upload then.
Again, thanks for collecting these.
- Marty, WA0GEH

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Sunday, July 17, 2005 6:02 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] More GPSL 2005 pictures needed!

We've got a fair collection so far, but can always use more pictures from GPSL 2005! If you would like to contribute, you can do so one of two ways:

1) FTP your pictures to capnspace.org (no www or ftp in front).

Userid: gpslftp

Password: gpslftp

If you are using Windows, try placing ftp://gpslftp@... <ftp://gpslftp@.../> in your browser and fill in the password at the prompt. A regular FTP client may work better.

2) Send your CD of pictures, video clips, etc., to:

Mark Conner

907 Thurston Ave

Bellevue NE 68123-2452

3) E-mail your pictures to n9xtn@... . I can receive a max of 5 Mb per e-mail and have a 100 Mb box.

73 de Mark N9XTN

YAHOO! GROUPS LINKS

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* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

_____

1547. Re: [GPSL] More GPSL 2005 pictures needed!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-18 03:44:06 UTC
From: wb8elk@aol.com
Topic: 1543 Message: 1547

Hi Mark,

I'll put my photos on a CD to send to you unless I can FTP them on a highspeed connection.

- Bill WB8ELK

1548. Re: [GPSL] More GPSL 2005 pictures needed!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-18 04:12:36 UTC
From: Mark Garrett
Topic: 1543 Message: 1548
Attachments: 1 described; binary payloads are missing from this source WARC

How big are the photos? My mailbox can handle some big stuff.
We could try an FTP but I would probably have to coordinate it with you
during the time of upload.
I will probably go ahead and share the pictures with people around
here. Either that or upload it to the GPSL website and when they get it
going then I could also direct people to that site.

Mark

At 10:44 PM 7/17/2005, you wrote:

>Hi Mark,
>
> I'll put my photos on a CD to send to you unless I can FTP them on a
> highspeed connection.
>
>- Bill WB8ELK
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.0.322 / Virus Database: 267.8.13/47 - Release Date: 7/12/2005

1549. Project: Traveler Data

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-19 02:25:13 UTC
From: Zack Clobes
Topic: 1549 Message: 1549

PT's landing point was 41 15.4482,-95 35.1216.

I'm in the process of uploading a ZIP file to the FTP server. It should be done soon.

Zack

1550. APRS Data

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-19 19:20:47 UTC
From: PAUL VERHAGE
Topic: 1550 Message: 1550

I haven't heard anything about getting APRS data. Does someone have a log that shows my reports?

Paul

1551. Presentations and such

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-22 12:23:18 UTC
From: kc0mic
Topic: 1551 Message: 1551

Has any progress been made on aggregating all the presentations from 2005 and making CDs ? I'd be happy to help.

73 de Troy KC0MIC

1552. RE: [GPSL] Presentations and such

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-22 19:55:11 UTC
From: Mark Conner
Topic: 1551 Message: 1552

Troy,

We're still in the collection phase. I have the presentations here and will upload them shortly. I see that Zack has uploaded a zip file which I'm checking out now. EOSS has indicated they have pictures to upload too.

Anybody else with pictures, feel free to upload them! Can never have too many.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of kc0mic
Sent: Friday, July 22, 2005 07:23
To: GPSL@yahoogroups.com
Subject: [GPSL] Presentations and such

Has any progress been made on aggregating all the presentations from 2005 and making CDs ? I'd be happy to help.

73 de Troy KC0MIC

1553. Re: [GPSL] Presentations and such

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-22 20:35:07 UTC
From: Gene Harlan
Topic: 1551 Message: 1553

What will the process be & charge to get one of these CDs? I am sure there are people like myself that could not attend and would love to buy one.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, July 22, 2005 2:55 PM
Subject: RE: [GPSL] Presentations and such

Troy,

We're still in the collection phase. I have the presentations here and will upload them shortly. I see that Zack has uploaded a zip file which I'm checking out now. EOSS has indicated they have pictures to upload too.

Anybody else with pictures, feel free to upload them! Can never have too many.

- Mark

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of kc0mic
Sent: Friday, July 22, 2005 07:23
To: GPSL@yahoogroups.com
Subject: [GPSL] Presentations and such

Has any progress been made on aggregating all the presentations from 2005 and making CDs ? I'd be happy to help.

73 de Troy KC0MIC

Yahoo! Groups Links

1554. RE: [GPSL] FTP server

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-23 22:01:41 UTC
From: Marty Griffin
Topic: 1501 Message: 1554

Hi Mark and Troy,
Thanks for the site. I popped some images up there today. If you need higher resolution, I have them in about a 3 MB size, let me know. Other EOSS folks may contribute also.
- Marty

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Saturday, July 09, 2005 1:03 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] FTP server

Thanks to Troy KC0MIC of CAP-N-SPACE, we now have an FTP server for uploading GPSL 2005 materials.

Site: capnspace.org

User: gpslftp

Password: gpslftp

Please make a subdirectory with your group name or callsign under the main directory before uploading your files. You can make any subdirectories under your own directory too if that helps to organize your files.

Anyone having pictures or video clips, regardless of whether you're associated with a balloon group or not, please contribute to our GPSL 2005 proceedings CD/DVD.

Some of you have already sent me a CD - if so, you don't need to upload those pictures.

If you would prefer to send me a CD because you're on dial-up and don't want to spend time uploading a large volume of data, you can send me a CD with your pictures at:

Mark Conner

907 Thurston Ave

Bellevue NE 68123-2452

73 de Mark N9XTN

YAHOO! GROUPS LINKS

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<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

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<http://docs.yahoo.com/info/terms/> .

1555. Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 03:36:16 UTC
From: w5bl
Topic: 1555 Message: 1555

Can anyone share their experience with flying a digital camera on a balloon package? I am preparing a package to fly on the upcoming NTBP flight and I have some extra mass budget that I want to use to fly a digital camera. I have looked at a couple of different cameras to attempt to modify by adding a timer to trigger the camera in flight but the cameras I have looked at are not easy to work on. If someone has experience flying a digital camera I would appreciate the details of what model was used and how the images turned out.Thanks in advance for the feedback.

73,

Doug Loughmiller, W5BL

1556. RE: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 03:55:20 UTC
From: Rochte, Robert
Topic: 1555 Message: 1556

I believe that one of Paul Verhage's articles in Nuts and Volts covers this topic... Check the link below...

http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp <http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp>

73,
Robert
KC8UCH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of w5bl
Sent: Sunday, July 24, 2005 11:36 PM
To: GPSL@yahoogroups.com
Cc: EOSS@yahoogroups.com
Subject: [GPSL] Digital Camera

Can anyone share their experience with flying a digital camera on a balloon package? I am preparing a package to fly on the upcoming NTBP flight and I have some extra mass budget that I want to use to fly a digital camera. I have looked at a couple of different cameras to attempt to modify by adding a timer to trigger the camera in flight but the cameras I have looked at are not easy to work on. If someone has experience flying a digital camera I would appreciate the details of what model was used and how the images turned out.Thanks in advance for the feedback.

73,

Doug Loughmiller, W5BL

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<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA> and craft supply Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA> radio

-----

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GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service
<http://docs.yahoo.com/info/terms/> .

1557. Re: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 12:18:20 UTC
From: Don KA0JLF
Topic: 1555 Message: 1557

We took a bit of a different approach at GPSL 05. This year we flew a DVR (which also has a digital camera mode), and just captured video. It worked well. The DVR is around $100 at Walmat. It uses a SD card, with a 1GB SD card we get over 2 hours record time (full flight).

There is a PDF file on our web site by Dave Harper. He did some interesting studies on cameras for his flight. There might be some useful info there, not sure they were digital, memory fails me right now.

http://www.habitatskylab.org/Novel_Design_of_a_High_Altitude_Balloon.pdf

73
Don KA0JLF

--- w5bl <W5BL@...> wrote:

>
> Can anyone share their experience with flying a
> digital camera on a balloon package? I am preparing
> a package to fly on the upcoming NTBP flight and I
> have some extra mass budget that I want to use to
> fly a digital camera. I have looked at a couple of
> different cameras to attempt to modify by adding a
> timer to trigger the camera in flight but the
> cameras I have looked at are not easy to work on. If
> someone has experience flying a digital camera I
> would appreciate the details of what model was used
> and how the images turned out.Thanks in advance for
> the feedback.
>
> 73,
>
> Doug Loughmiller, W5BL

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1558. Re: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 14:20:53 UTC
From: KD5SSJ
Topic: 1555 Message: 1558

Don,

Your PDF is a really nice job, fabulous pictures, great documentation.

Cash KD5SSJ

My web site: www.zianet.com/erg

At 06:18 AM 7/25/2005, you wrote:
>We took a bit of a different approach at GPSL 05. This
>year we flew a DVR (which also has a digital camera
>mode), and just captured video. It worked well. The
>DVR is around $100 at Walmat. It uses a SD card, with
>a 1GB SD card we get over 2 hours record time (full
>flight).
>
>There is a PDF file on our web site by Dave Harper. He
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>flight. There might be some useful info there, not
>sure they were digital, memory fails me right now.
>
>http://www.habitatskylab.org/Novel_Design_of_a_High_Altitude_Balloon.pdf
>
>73
>Don KA0JLF
>
>
>--- w5bl <W5BL@...> wrote:
>
> >
> > Can anyone share their experience with flying a
> > digital camera on a balloon package? I am preparing
> > a package to fly on the upcoming NTBP flight and I
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> > would appreciate the details of what model was used
> > and how the images turned out.Thanks in advance for
> > the feedback.
> >
> > 73,
> >
> > Doug Loughmiller, W5BL

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>_____
>Start your day with Yahoo! - make it your home page
>http://www.yahoo.com/r/hs
>
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>
>
>Yahoo! Groups Links
>
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>
>

1559. Re: [EOSS] RE: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 15:57:51 UTC
From: K. Mark Caviezel
Topic: 1555 Message: 1559

Doug:
A few thoughts:
a). film works great, unless you let it get REALLY cold. With so many people going to digital now, the possibility of getting a pretty nice 35mm camera for free or close to it are pretty good. I've flown Olympus Stylus 35mm cameras with great success. (modification for electrical triggering is pretty easy.) Low cost parts for balloon payloads are good, it is a hazardous occupation for hardware.
b). Some cameras, including the Samsung 777i 35mm camera already have a timer built in. It will take pictures on ten minute centers.
c). Even more fun than a timer triggered camera is a remote commanded one. I've flown a radio triggered camera many times on ES-OS and EOSS flights with great success. This will allow you to take tons of photos above 90k feet, instead of having just one or maybe two.

have fun with it!

- KMC ng0x

--- "Rochte, Robert" <rrochte@...> wrote:

> I believe that one of Paul Verhage's articles in
> Nuts and Volts covers this
> topic... Check the link below...
>
>
http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp
>
<http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp>
>
>
> 73,
> Robert
> KC8UCH
>
> -----Original Message-----
> From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com]On Behalf Of w5bl
> Sent: Sunday, July 24, 2005 11:36 PM
> To: GPSL@yahoogroups.com
> Cc: EOSS@yahoogroups.com

> Subject: [GPSL] Digital Camera
>
>
>
>
> Can anyone share their experience with flying a
> digital camera on a balloon
> package? I am preparing a package to fly on the
> upcoming NTBP flight and I
> have some extra mass budget that I want to use to
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> attempt to modify by adding
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> not easy to work on. If someone has experience
> flying a digital camera I
> would appreciate the details of what model was used
> and how the images
> turned out.Thanks in advance for the feedback.
>
> 73,
>
> Doug Loughmiller, W5BL
>
>
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<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and
>
+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg>
> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w
>
2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
> and craft supply Ham
>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+c
>
raft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA>
> radio
>
> _____
>
> YAHOO! GROUPS LINKS
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> * Visit your group " GPSL
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> the web.
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> GPSL-unsubscribe@yahoogroups.com
>
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>
>
>
> * Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> -----
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

1560. RE: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 20:37:27 UTC
From: PAUL VERHAGE
Topic: 1555 Message: 1560

You'll want a camera with auto focus feature. It appears that the cameras that are focus free are preset to a short distance, like 20 feet. Needless to say, there ain't nothin' 20 feet away in near space.

I found a 2 megapixel camera at Walmart during GPSL that I have tried to mod. I haven't flown it yet, so I can't tell you how well it will work.

One of these days, I'll start a webpage of sucessful camera mods.

Paul

>>> rrochte@gpacademy.org 07/24/05 9:55 PM >>>
I believe that one of Paul Verhage's articles in Nuts and Volts covers this topic... Check the link below...

http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp
<http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp>

73,
Robert
KC8UCH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of w5bl
Sent: Sunday, July 24, 2005 11:36 PM
To: GPSL@yahoogroups.com
Cc: EOSS@yahoogroups.com
Subject: [GPSL] Digital Camera

Can anyone share their experience with flying a digital camera on a balloon package? I am preparing a package to fly on the upcoming NTBP flight and I have some extra mass budget that I want to use to fly a digital camera. I have looked at a couple of different cameras to attempt to modify by adding a timer to trigger the camera in flight but the cameras I have looked at are not easy to work on. If someone has experience flying a digital camera I would appreciate the details of what model was used and how the images turned out.Thanks in advance for the feedback.

73,

Doug Loughmiller, W5BL

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<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg> hobby
Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w

2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
and craft supply Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+c
raft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA> radio

---

YAHOO! GROUPS LINKS

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GPSL-unsubscribe@yahoogroups.com
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<http://docs.yahoo.com/info/terms/> .

1561. Re: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 20:40:27 UTC
From: PAUL VERHAGE
Topic: 1555 Message: 1561

This looked so neat that I bought a camera for myself. It really looks like a winner of an idea. I can't wait to fly mine.

Paul

>>> ka0jlf@...t 07/25/05 6:18 AM >>>
We took a bit of a different approach at GPSL 05. This
year we flew a DVR (which also has a digital camera
mode), and just captured video. It worked well. The
DVR is around $100 at Walmat. It uses a SD card, with
a 1GB SD card we get over 2 hours record time (full
flight).

There is a PDF file on our web site by Dave Harper. He
did some interesting studies on cameras for his
flight. There might be some useful info there, not
sure they were digital, memory fails me right now.

http://www.habitatskylab.org/Novel_Design_of_a_High_Altitude_Balloon.pdf

73
Don KA0JLF

--- w5bl <W5BL@...> wrote:

>
> Can anyone share their experience with flying a
> digital camera on a balloon package? I am preparing
> a package to fly on the upcoming NTBP flight and I
> have some extra mass budget that I want to use to
> fly a digital camera. I have looked at a couple of
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> cameras I have looked at are not easy to work on. If
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> would appreciate the details of what model was used
> and how the images turned out.Thanks in advance for
> the feedback.
>
> 73,
>
> Doug Loughmiller, W5BL

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http://www.yahoo.com/r/hs

Yahoo! Groups Links

1562. Re: [EOSS] RE: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 20:48:05 UTC
From: PAUL VERHAGE
Topic: 1555 Message: 1562

The one problem to look out for is the power save feature. For some reason, engineers think I can't turn off the camera when I'm done. I've seen cameras shut off before the timer takes the next picture.

A good film camera is the Canon Elph.

I like the camera with built in timers. I'll have to try Mark's recommendation.

Paul

>>> kmcaviezel@... 07/25/05 9:57 AM >>>
Doug:
A few thoughts:
a). film works great, unless you let it get REALLY cold. With so many people going to digital now, the possibility of getting a pretty nice 35mm camera for free or close to it are pretty good. I've flown Olympus Stylus 35mm cameras with great success. (modification for electrical triggering is pretty easy.) Low cost parts for balloon payloads are good, it is a hazardous occupation for hardware.
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have fun with it!

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http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp
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<http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp>
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> -----Original Message-----
> From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com]On Behalf Of w5bl
> Sent: Sunday, July 24, 2005 11:36 PM
> To: GPSL@yahoogroups.com
> Cc: EOSS@yahoogroups.com
> Subject: [GPSL] Digital Camera
>
>
>
>
> Can anyone share their experience with flying a
> digital camera on a balloon
> package? I am preparing a package to fly on the
> upcoming NTBP flight and I
> have some extra mass budget that I want to use to
> fly a digital camera. I
> have looked at a couple of different cameras to
> attempt to modify by adding
> a timer to trigger the camera in flight but the
> cameras I have looked at are
> not easy to work on. If someone has experience
> flying a digital camera I
> would appreciate the details of what model was used
> and how the images
> turned out.Thanks in advance for the feedback.
>
> 73,
>
> Doug Loughmiller, W5BL
>
>
>
> SPONSORED LINKS
> Craft
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and
>
+craft+supply&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg>
> hobby
> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w
>
2=Hobby+and+craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
> and craft supply Ham

>
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+c
>
raft+supply&w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA>
> radio
>
> _____
>
> YAHOO! GROUPS LINKS
>
>
>
> * Visit your group " GPSL
> <http://groups.yahoo.com/group/GPSL> " on
> the web.
>
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
>
> * Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service
> <http://docs.yahoo.com/info/terms/> .
>
>
> _____
>
>
>
>
> [Non-text portions of this message have been
> removed]
>
>

Yahoo! Groups Links

1563. Re: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-25 23:24:53 UTC
From: Rick von Glahn
Topic: 1555 Message: 1563

Way back in September of last year I purchased a Canon Powershot S70. It was to be my pocket camera and also a digital camera EOSS could fly. The camera is sort of a running joke at EOSS meetings. I was supposed to build the housing to contain it and never seemed to get around to it. Now at each meeting I'm asked of my progress towards this goal. :) One of these meetings I'll dazzle 'em and produce a working payload package. That's because a volunteer came forward and offered to not only package up the camera for flight but also look into the possiblity of building a controller to manage the camera in flight via its USB port. He even has the API from canon to look into it. Well,.... why this camera?

The camera has a very wide angle lens, 28mm in 35mm film equilivents, and an INTERVALOMETER which you can set to just bang away taking pictures. For some reason that is totally beyond me, the camera is limited to 100 photos in the intervalometer mode so it wouldn't last a full flight in the once a minute setting. But, once every two minutes would work. It's a 7 megapixel camera and it is expensive. It's still expensive after almost a year on the market. But, it might do a good job if you're looking for something that requires no heavy duty building and programming.

You can set the camera to focus on infinity, force maximum lens apature to generate the fastest shutter speed. And the camera will remember the settings if you memorize them to a special spot in its mode selection system. So, it is fairly easy to setup the morning of the flight. The only problem, you have to delve into the menu system to start up the intervalometer. It would have been nice if that could have been programmed too so you could literally turn it on and be assured it would work properly during the flight. But with having to enter into the menu system, it remains a payload that requires a trained operator to get up and running prior to launch.

Rick

--
73 -- Rick, N0KKZ

1564. Re: [GPSL] Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 01:38:04 UTC
From: Don KA0JLF
Topic: 1555 Message: 1564

Dave Harper did all the work, he just let us post it
on our web site. I think he did an outstanding job!!!
Thanks Dave!
I was just happy to have found it. I don't remember
the details but I think he may have found us, or at
least visited. Getting old and forgetful is the pits!
;-)

Thanks for the kind words, even if we didn't deserve
them. ;-)
73
Don

--- KD5SSJ <KD5SSJ@...> wrote:

> Don,
>
> Your PDF is a really nice job, fabulous pictures,
> great documentation.
>
>
>
> Cash KD5SSJ
>
> My web site: www.zianet.com/erg
>
>
> At 06:18 AM 7/25/2005, you wrote:
> >We took a bit of a different approach at GPSL 05.
> This
> >year we flew a DVR (which also has a digital camera
> >mode), and just captured video. It worked well. The
> >DVR is around $100 at Walmat. It uses a SD card,
> with
> >a 1GB SD card we get over 2 hours record time (full
> >flight).
> >
> >There is a PDF file on our web site by Dave Harper.
> He
> >did some interesting studies on cameras for his
> >flight. There might be some useful info there, not
> >sure they were digital, memory fails me right now.
> >
>
>http://www.habitatskylab.org/Novel_Design_of_a_High_Altitude_Balloon.pdf
> >

> >73
> >Don KA0JLF
> >
> >
> >--- w5bl <W5BL@...> wrote:
> >
> > >
> > > Can anyone share their experience with flying
> a
> > > digital camera on a balloon package? I am
> preparing
> > > a package to fly on the upcoming NTBP flight and
> I
> > > have some extra mass budget that I want to use
> to
> > > fly a digital camera. I have looked at a couple
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> > > different cameras to attempt to modify by adding
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> > > timer to trigger the camera in flight but the
> > > cameras I have looked at are not easy to work
> on. If
> > > someone has experience flying a digital camera I
> > > would appreciate the details of what model was
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> > > and how the images turned out.Thanks in advance
> for
> > > the feedback.
> > >
> > > 73,
> > >
> > > Doug Loughmiller, W5BL
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>_____
> >Start your day with Yahoo! - make it your home page
> >http://www.yahoo.com/r/hs
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> >Yahoo! Groups Links
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
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Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1565. More on digital cameras for balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 03:44:17 UTC
From: Mark Conner
Topic: 1565 Message: 1565

Found this article while Googling for something else. It's the story of how a balloon group recovered data/pix from their SD cards after prolonged exposure in the Pacific.

http://www.letsgodigital.org/en/news/articles/story_3655.html

NSTAR uses a Concord 4060AF camera, which is 4MP. The quality is not quite as good as the Canon Elph LT I used to use, but the big advantage is the ability to shoot a lot more pictures. I'm willing to trade some quality in order to get the opportunity to take a lot more shots. Many of them are redundant and don't make it to the website, but I think I get a few that I might miss with a limit of 36 or 40 film shots. There is a web page by Kyle KB5TSS on how to modify it, but I can't find the URL right now. I believe the camera is out of production but I've seen it in recent months on sale for about $100. Check www.nstar.org <http://www.nstar.org/> for our late 2004 and 2005 flights to see how well it works.

I saw over the weekend that Wal-Mart has some cheap 2MP and 3MP cameras in the $40-$70 range that might be worth checking out as payload cameras. Should be simple to modify.

The one mentioned by HABITAT is another interesting choice for video. If you want full-motion video you're limited to something like 352x240 pixels - 640x480 is 10-15 fps which can look a little jerky when the payload is spinning. It's also a 4MP still camera and the cost is right around $100.

73 de Mark N9XTN

1566. Re: [KNSP] More on digital cameras for balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 04:48:05 UTC
From: Jeff Melanson
Topic: 1565 Message: 1566

Here is the web page by Kyle KBTSS on how to modify the camera.

Jeff
kd7inn

Mark Conner wrote:

Found this article while Googling for something else. It's the story of how a balloon group recovered data/pix from their SD cards after prolonged exposure in the Pacific.

http://www.letsgodigital.org/en/news/articles/story_3655.html

NSTAR uses a Concord 4060AF camera, which is 4MP. The quality is not quite as good as the Canon Elph LT I used to use, but the big advantage is the ability to shoot a lot more pictures. I'm willing to trade some quality in order to get the opportunity to take a lot more shots. Many of them are redundant and don't make it to the website, but I think I get a few that I might miss with a limit of 36 or 40 film shots. There is a web page by Kyle KB5TSS on how to modify it, but I can't find the URL right now. I believe the camera is out of production but I've seen it in recent months on sale for about $100. Check www.nstar.org (http://www.nstar.org/) for our late 2004 and 2005 flights to see how well it works.

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73 de Mark N9XTN

1567. Re: [KNSP] More on digital cameras for balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 04:53:26 UTC
From: Jeff Melanson
Topic: 1565 Message: 1567

Let me try again: :)

Here is the web page by Kyle KBTSS on how to modify the camera.

http://www.webpages.uidaho.edu/~thor7358/hiball/concord/

Jeff
kd7inn

Mark Conner wrote:

Found this article while Googling for something else. It's the story of how a balloon group recovered data/pix from their SD cards after prolonged exposure in the Pacific.

http://www.letsgodigital.org/en/news/articles/story_3655.html

NSTAR uses a Concord 4060AF camera, which is 4MP. The quality is not quite as good as the Canon Elph LT I used to use, but the big advantage is the ability to shoot a lot more pictures. I'm willing to trade some quality in order to get the opportunity to take a lot more shots. Many of them are redundant and don't make it to the website, but I think I get a few that I might miss with a limit of 36 or 40 film shots. There is a web page by Kyle KB5TSS on how to modify it, but I can't find the URL right now. I believe the camera is out of production but I've seen it in recent months on sale for about $100. Check www.nstar.org (http://www.nstar.org/) for our late 2004 and 2005 flights to see how well it works.

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The one mentioned by HABITAT is another interesting choice for video. If you want full-motion video you're limited to something like 352x240 pixels – 640x480 is 10-15 fps which can look a little jerky when the payload is spinning. It's also a 4MP still camera and the cost is right around $100.

73 de Mark N9XTN

1568. Mobile Mounting Hardware

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 12:57:23 UTC
From: Jim
Topic: 1568 Message: 1568

I am in need to of a resource for mounting the equipment to track the balloons in my F150 Truck Super Cab. Last evenng is was painfully apparent that I need some sort of mounts or a rack to mount securely and in a manner that is visible to me the following:

1. Computer
2. Radios
3. DF monitor

When I attended the 2002 GPSL I saw a set-up in a full size pick-up. I believe the mounting racks were like the ones in ambulances.

Any help or ideas on a supplier of mounting racks and brackets??

Jim N0AJI

1569. Cut-down devices

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 13:29:03 UTC
From: Keith Kaiser
Topic: 1569 Message: 1569

I'm interested in the various types of balloon cut-down devices in use by the various ballooning groups, what works, what doesn't, are we in need of some new ideas or is it a pretty done thing? Let me know, thanks.

-- Keith

1570. Re: [GPSL] Cut-down devices

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-26 13:42:47 UTC
From: David Hoffman
Topic: 1569 Message: 1570

One idea that I've recently seen in use on some of the UAH flights is this:

http://www.knology.net/~gdion/Buzz-O-Matic.html

David Hoffman - KE4FGW

>
>
>
>
> I'm interested in the various types of balloon cut-down devices in use
> by the various ballooning groups, what works, what doesn't, are we in
> need of some new ideas or is it a pretty done thing? Let me know,
> thanks.
>
> -- Keith
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> SPONSORED LINKS
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> Craft hobby
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> Hobby and craft supply
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> Ham radio
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> YAHOO! GROUPS LINKS
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>
> Visit your group "GPSL" on the web.
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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1571. Thanks!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-27 03:12:58 UTC
From: w5bl
Topic: 1571 Message: 1571

Many thanks to all who passed along information concerning the use of digital cameras in high altitude balloon payloads. It is certainly a good feeling to know that the amateur spirit of cooperation and information sharing is still alive and well! I look forward to sharing my images with you all after our flight next month.

73,

Doug Loughmiller, W5BL

1572. Re: [GPSL] More on digital cameras for balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-27 03:17:43 UTC
From: Don KA0JLF
Topic: 1565 Message: 1572

Actally it is 30 fps @ 352x288 Mpeg4 and a 5MP camera.

www.2fidelity.com it is a DV5900

73
Don

--- Mark Conner <n9xtn@...> wrote:
> The one mentioned by HABITAT is another interesting
> choice for video. If
> you want full-motion video you're limited to
> something like 352x240 pixels -
> 640x480 is 10-15 fps which can look a little jerky
> when the payload is
> spinning. It's also a 4MP still camera and the cost
> is right around $100.
>
>
>
> 73 de Mark N9XTN

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1573. Re: [GPSL] Cut-down devices

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-27 04:14:31 UTC
From: Mike Manes
Topic: 1569 Message: 1573

EOSS has been using a #28-30 NiCr coil of 1 to 2 ohms tight-wound over the lift line at the 'chute apex with good results. 2-3 #123 LiSO2 batts in series relay-swithed across the coil does the job in about 4 sec inside a 1/2" thick styrofoam enclosure.

But there are lotsa other ways to get shut of the balloon ...

73 de Mike W5VSI

Keith Kaiser wrote:
>
> I'm interested in the various types of balloon cut-down devices in use
> by the various ballooning groups, what works, what doesn't, are we in
> need of some new ideas or is it a pretty done thing? Let me know,
> thanks.
>
> -- Keith
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1574. Battery suppier(s)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-27 11:13:48 UTC
From: kc0mic
Topic: 1574 Message: 1574

Does anybody remember which presenter was using Lithium Polymer batteries in his business and offered a good price because of the volume he buys in?

1575. RE: [GPSL] Battery suppier(s)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-27 16:22:37 UTC
From: Holmes, Will
Topic: 1574 Message: 1575

Talk to Jeff Daily. jfdailey@....

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of kc0mic
Sent: Wednesday, July 27, 2005 6:14 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Battery suppier(s)

Does anybody remember which presenter was using Lithium Polymer batteries in his business and offered a good price because of the volume he buys in?

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on the web.

* To unsubscribe from this group, send an email to: GPSL-unsubscribe@yahoogroups.com <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service <http://docs.yahoo.com/info/terms/> .

1576. Re: FTP server

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-28 00:44:55 UTC
From: Harry KC5TRB
Topic: 1501 Message: 1576

Mark,

I finally got the ORB pics up to the ftp site.

73 Harry

1577. Fwd: [Fwd: [HABITAT_SkyLab] Mission Commander Report]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-31 22:01:25 UTC
From: Don KA0JLF
Topic: 1577 Message: 1577

Less payload than originally hoped for, but a successful flight. I think I heard we landed about 7.xx miles from the launchsite, about 85,xxx ft. Reports will arrive as data is unloaded and forwarded in.

Major Happy did an outstanding job on a very successful mission. What Extreme temperatures he endured. ;-) All the while with a grin and positive spirit!

Larry M flew his DVR facing down, I flew mine facing up. Now to find a way to display them side by side, with a tracking map or flight data. ;-)

My attempt to capture balloon burst and study the parachute during decent was a sucess. Periods of violent changes to the balloon are amazing.

More reports as they come in.

Don

--- Don Pfister <ka0jlf> wrote:

> Date: Sun, 31 Jul 2005 16:39:39 -0500
> From: Don Pfister
> To: ka0jlf@...
> Subject: [Fwd: [HABITAT_SkyLab] Mission Commander
> Report]
>
> 122.x degree F change in 30 minutes, WOW!!!
>
> Good flight!
>
> Larry P Thomas wrote:
> >
> > Thanks Guys for the good flight. Here is the data
> from the iButton in the
> > mission commander modular. I have cut and pasted
> it into this email since I
> > think attachments are not allowed.
> >
> > On a side note: Mr. Happy (mission commander),
> formerly a lowly civilian in
> > the world of stuffed things, for duty above and
> beyond that expected of a

> > mere spherically shaped soft happy face, for
> helping to see that we had a
> > successful mission AND for returning with his
> trusted temperature data, has
> > been given the honorary rank of Major in the
> Habitat SkyLab Air Force!
> >
> > Major Happy is resting now have having survived
> the near space lows of -24.7
> > F only to be subjected to temperatures rising to
> 102.2 F as the capsule lay
> > in the sunlight of the open field. Major Happy
> wishes to extend a personal
> > note of thanks to KC?BS, Brian Short, for the
> quick recovery after landing
> > by being first on the scene. He is not sure he
> could have taken any more
> > heat!
> >
> > Major Happy also wishes to thank those who
> entrusted him with this
> > responsibility. In fact, he has not been able to
> stop smiling since the news
> > of the promotion and the news of successful read
> of the temperature data was
> > broken to him only hours ago! He is truly happy,
> in fact he is Majorly
> > happy!
> >
> > Later,
> > 73's Larry P. Thomas, wa0gwa (Spokesperson for
> Major Happy)
> >
> > Imagine it/Achieve it --- Dream it/Become it
> > Larry P. Thomas, wa0gwa 1 913 244-8761
> > Krell Technologies (http://www.krell.com)
> > PO BOX 3565, OLATHE, KS 66063-3565 USA
> >
> > 07/31/2005 07:00 , 64.4?F
> > 07/31/2005 07:01 , 65.3?F
> > 07/31/2005 07:02 , 65.3?F
> > 07/31/2005 07:03 , 65.3?F
> > 07/31/2005 07:04 , 65.3?F
> > 07/31/2005 07:05 , 66.2?F
> > 07/31/2005 07:06 , 66.2?F
> > 07/31/2005 07:07 , 66.2?F
> > 07/31/2005 07:08 , 66.2?F
> > 07/31/2005 07:09 , 66.2?F
> > 07/31/2005 07:10 , 67.1?F
> > 07/31/2005 07:11 , 67.1?F

> > 07/31/2005 07:12 , 67.1?F
> > 07/31/2005 07:13 , 67.1?F
> > 07/31/2005 07:14 , 67.1?F
> > 07/31/2005 07:15 , 67.1?F
> > 07/31/2005 07:16 , 67.1?F
> > 07/31/2005 07:17 , 68.0?F
> > 07/31/2005 07:18 , 68.0?F
> > 07/31/2005 07:19 , 68.0?F
> > 07/31/2005 07:20 , 68.0?F
> > 07/31/2005 07:21 , 68.0?F
> > 07/31/2005 07:22 , 68.9?F
> > 07/31/2005 07:23 , 70.7?F
> > 07/31/2005 07:24 , 72.5?F
> > 07/31/2005 07:25 , 73.4?F
> > 07/31/2005 07:26 , 75.2?F
> > 07/31/2005 07:27 , 77.0?F
> > 07/31/2005 07:28 , 77.0?F
> > 07/31/2005 07:29 , 77.9?F
> > 07/31/2005 07:30 , 78.8?F
> > 07/31/2005 07:31 , 78.8?F
> > 07/31/2005 07:32 , 78.8?F
> > 07/31/2005 07:33 , 77.9?F
> > 07/31/2005 07:34 , 77.9?F
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> > 07/31/2005 07:36 , 77.0?F
> > 07/31/2005 07:37 , 77.0?F
> > 07/31/2005 07:38 , 78.8?F
> > 07/31/2005 07:39 , 81.5?F
> > 07/31/2005 07:40 , 84.2?F
> > 07/31/2005 07:41 , 86.0?F
> > 07/31/2005 07:42 , 86.9?F
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> > 07/31/2005 07:48 , 88.7?F
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> > 07/31/2005 07:50 , 90.5?F
> > 07/31/2005 07:51 , 90.5?F
> > 07/31/2005 07:52 , 90.5?F
> > 07/31/2005 07:53 , 89.6?F
> > 07/31/2005 07:54 , 91.4?F
> > 07/31/2005 07:55 , 92.3?F
> > 07/31/2005 07:56 , 94.1?F
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> > 07/31/2005 07:59 , 94.1?F
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> > 07/31/2005 08:31 , 86.9?F
> > 07/31/2005 08:32 , 87.8?F
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> > 07/31/2005 08:45 , 56.3?F
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> > 07/31/2005 08:47 , 49.1?F
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> > 07/31/2005 09:01 , -16.6?F
> > 07/31/2005 09:02 , -19.3?F
> > 07/31/2005 09:03 , -20.2?F
> > 07/31/2005 09:04 , -20.2?F
> > 07/31/2005 09:05 , -21.1?F
> > 07/31/2005 09:06 , -21.1?F
> > 07/31/2005 09:07 , -22.9?F
> > 07/31/2005 09:08 , -22.9?F
> > 07/31/2005 09:09 , -23.8?F
> > 07/31/2005 09:10 , -24.7?F
> > 07/31/2005 09:11 , -23.8?F
> > 07/31/2005 09:12 , -22.9?F
> > 07/31/2005 09:13 , -22.0?F
> > 07/31/2005 09:14 , -22.0?F
> > 07/31/2005 09:15 , -21.1?F
> > 07/31/2005 09:16 , -20.2?F
> > 07/31/2005 09:17 , -20.2?F
> > 07/31/2005 09:18 , -19.3?F
> > 07/31/2005 09:19 , -18.4?F
> > 07/31/2005 09:20 , -16.6?F
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> > 07/31/2005 09:22 , -10.3?F
> > 07/31/2005 09:23 , -11.2?F
> > 07/31/2005 09:24 , -8.5?F
> > 07/31/2005 09:25 , -9.4?F
> > 07/31/2005 09:26 , -13.0?F
> > 07/31/2005 09:27 , -16.6?F
> > 07/31/2005 09:28 , -19.3?F
> > 07/31/2005 09:29 , -21.1?F
> > 07/31/2005 09:30 , -21.1?F
> > 07/31/2005 09:31 , -21.1?F
> > 07/31/2005 09:32 , -20.2?F
> > 07/31/2005 09:33 , -20.2?F
> > 07/31/2005 09:34 , -18.4?F
> > 07/31/2005 09:35 , -15.7?F
> > 07/31/2005 09:36 , -8.5?F
> > 07/31/2005 09:37 , 0.5?F
> > 07/31/2005 09:38 , 5.0?F
> > 07/31/2005 09:39 , 10.4?F
> > 07/31/2005 09:40 , 16.7?F
> > 07/31/2005 09:41 , 23.0?F

> > 07/31/2005 09:42 , 28.4?F
> > 07/31/2005 09:43 , 34.7?F
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> > 07/31/2005 09:45 , 46.4?F
> > 07/31/2005 09:46 , 52.7?F
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> > 07/31/2005 09:55 , 79.7?F
> > 07/31/2005 09:56 , 79.7?F
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> > 07/31/2005 10:01 , 93.2?F
> > 07/31/2005 10:02 , 98.6?F
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> > 07/31/2005 10:04 , 102.2?F
> > 07/31/2005 10:05 , 100.4?F
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> > 07/31/2005 10:10 , 99.5?F
> > 07/31/2005 10:11 , 98.6?F
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> > 07/31/2005 10:13 , 97.7?F
> > 07/31/2005 10:14 , 100.4?F
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> > 07/31/2005 10:16 , 104.9?F
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> > 07/31/2005 10:25 , 96.8?F
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> > 07/31/2005 10:30 , 93.2?F
> > 07/31/2005 10:31 , 92.3?F

> > 07/31/2005 10:32 , 91.4?F
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> > 07/31/2005 10:34 , 89.6?F
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> > 07/31/2005 10:37 , 90.5?F
> > 07/31/2005 10:38 , 91.4?F
> > 07/31/2005 10:39 , 91.4?F
> > 07/31/2005 10:40 , 92.3?F
> > 07/31/2005 10:41 , 93.2?F
> > 07/31/2005 10:42 , 93.2?F
> > 07/31/2005 10:43 , 94.1?F
> > 07/31/2005 10:44 , 94.1?F
> > 07/31/2005 10:45 , 94.1?F
> > 07/31/2005 10:46 , 92.3?F
> > 07/31/2005 10:47 , 91.4?F
> > 07/31/2005 10:48 , 90.5?F
> > 07/31/2005 10:49 , 89.6?F
> > 07/31/2005 10:50 , 88.7?F
> > 07/31/2005 10:51 , 87.8?F
> > 07/31/2005 10:52 , 89.6?F
> > 07/31/2005 10:53 , 89.6?F
> > 07/31/2005 10:54 , 88.7?F
> > 07/31/2005 10:55 , 88.7?F
> > 07/31/2005 10:56 , 89.6?F
> > 07/31/2005 10:57 , 88.7?F
> > 07/31/2005 10:58 , 88.7?F
> > 07/31/2005 10:59 , 87.8?F
> > 07/31/2005 11:00 , 86.9?F
> >
> > ----------
> >
> > DS1921G: 6A00000000615D21
> > Download at: 7/31/2005 12:17:11 PM
> >
> > Mission State
> > -------------
> > Mission is in progress
> > Sample rate: 1 minute(s)
> > Roll-Over Enabled: yes
> > Roll-Over Occured: no
> > Mission Start time: 07/30/2005 15:33
> > Mission Start delay: 0 minute(s)
> > Mission Samples: 1246
> > Device total samples: 2200623
> > Temperatures displayed in: (Fahrenheit)
> > High Threshold: -40.0?F
> > Low Threshold: -40.0?F
> > Temperature threshold alarm state:
> Conditional(H,L) Alarm(H)

> > Current Real-Time Clock from DS1921: Sunday
> 07/31/2005 12:18:33
> > Current PC Time: Sunday 07/31/2005 12:18:33
> > Time Alarm mode: Alarm weekly
> > Alarm Time: Sunday 00:00:00
> > Alarm Time state: Conditional(yes) Alarm(yes)
> >
> > Temperature Alarms
> > ------------------
> > Format: [(HIGH/LOW), Time/Date range]
> > HIGH , 07/30/2005 15:33 to 07/30/2005 19:47
> > HIGH , 07/30/2005 19:48 to 07/31/2005 00:02
> > HIGH , 07/31/2005 00:03 to 07/31/2005 04:17
> > HIGH , 07/31/2005 04:18 to 07/31/2005 08:32
> > HIGH , 07/31/2005 08:33 to 07/31/2005 12:17
> >
> > Temperature Histogram
> > ---------------------
> > Format: [Temp Range , Count] (Fahrenheit)
> > -40.00?F to -37.30?F, 0
> > -36.40?F to -33.70?F, 0
> > -32.80?F to -30.10?F, 0
> > -29.20?F to -26.50?F, 0
> > -25.60?F to -22.90?F, 6
> > -22.00?F to -19.30?F, 17
> > -18.40?F to -15.70?F, 6
> > -14.80?F to -12.10?F, 3
> > -11.20?F to -8.50?F, 5
> > -7.60?F to -4.90?F, 1
> > -4.00?F to -1.30?F, 0
> > -0.40?F to 2.30?F, 2
> > 3.20?F to 5.90?F, 2
> > 6.80?F to 9.50?F, 0
> > 10.40?F to 13.10?F, 2
> > 14.00?F to 16.70?F, 2
> > 17.60?F to 20.30?F, 1
> > 21.20?F to 23.90?F, 1
> > 24.80?F to 27.50?F, 1
> > 28.40?F to 31.10?F, 2
> > 32.00?F to 34.70?F, 2
> > 35.60?F to 38.30?F, 1
> > 39.20?F to 41.90?F, 2
> > 42.80?F to 45.50?F, 1
> > 46.40?F to 49.10?F, 2
> > 50.00?F to 52.70?F, 2
> > 53.60?F to 56.30?F, 1
> > 57.20?F to 59.90?F, 2
> > 60.80?F to 63.50?F, 9
> > 64.40?F to 67.10?F, 34
> > 68.00?F to 70.70?F, 65

> > 71.60?F to 74.30?F, 189
> > 75.20?F to 77.90?F, 136
> > 78.80?F to 81.50?F, 457
> > 82.40?F to 85.10?F, 96
> > 86.00?F to 88.70?F, 111
> > 89.60?F to 92.30?F, 34
> > 93.20?F to 95.90?F, 21
> > 96.80?F to 99.50?F, 19
> > 100.40?F to 103.10?F, 8
> > 104.00?F to 106.70?F, 2
> > 107.60?F to 110.30?F, 0
> > 111.20?F to 113.90?F, 0
> > 114.80?F to 117.50?F, 0
> > 118.40?F to 121.10?F, 0
> > 122.00?F to 124.70?F, 0
> > 125.60?F to 128.30?F, 0
> > 129.20?F to 131.90?F, 0
> > 132.80?F to 135.50?F, 0
> > 136.40?F to 139.10?F, 0
> > 140.00?F to 142.70?F, 0
> > 143.60?F to 146.30?F, 0
> > 147.20?F to 149.90?F, 0
> > 150.80?F to 153.50?F, 0
> > 154.40?F to 157.10?F, 0
> > 158.00?F to 160.70?F, 0
> > 161.60?F to 164.30?F, 0
> > 165.20?F to 167.90?F, 0
> > 168.80?F to 171.50?F, 0
> > 172.40?F to 175.10?F, 0
> > 176.00?F to 178.70?F, 0
> > 179.60?F to 182.30?F, 0
> > 183.20?F to 185.90?F, 0
> > 186.80?F to 189.50?F, 0
> >
> > Log Data
> > --------
> > Format: [Time/Date , Temperature] (Fahrenheit)
> > 07/30/2005 15:33 , 79.7?F
> > 07/30/2005 15:34 , 79.7?F
> > 07/30/2005 15:35 , 79.7?F
> > 07/30/2005 15:36 , 80.6?F
> > 07/30/2005 15:37 , 80.6?F
> > 07/30/2005 15:38 , 80.6?F
> > 07/30/2005 15:39 , 80.6?F
> > 07/30/2005 15:40 , 80.6?F
> > 07/30/2005 15:41 , 80.6?F
> > 07/30/2005 15:42 , 80.6?F
> > 07/30/2005 15:43 , 80.6?F
> > 07/30/2005 15:44 , 80.6?F
> > 07/30/2005 15:45 , 80.6?F

> > 07/30/2005 15:46 , 80.6?F
> > 07/30/2005 15:47 , 80.6?F
> > 07/30/2005 15:48 , 80.6?F
> > 07/30/2005 15:49 , 80.6?F
> > 07/30/2005 15:50 , 80.6?F
> > 07/30/2005 15:51 , 80.6?F
> > 07/30/2005 15:52 , 80.6?F
> > 07/30/2005 15:53 , 80.6?F
> > 07/30/2005 15:54 , 80.6?F
> > 07/30/2005 15:55 , 80.6?F
> > 07/30/2005 15:56 , 81.5?F
> > 07/30/2005 15:57 , 81.5?F
> > 07/30/2005 15:58 , 81.5?F
> > 07/30/2005 15:59 , 81.5?F
> > 07/30/2005 16:00 , 81.5?F
> > 07/30/2005 16:01 , 81.5?F
> > 07/30/2005 16:02 , 81.5?F
> > 07/30/2005 16:03 , 81.5?F
> > 07/30/2005 16:04 , 81.5?F
> > 07/30/2005 16:05 , 81.5?F
> > 07/30/2005 16:06 , 82.4?F
> > 07/30/2005 16:07 , 82.4?F
> > 07/30/2005 16:08 , 82.4?F
> > 07/30/2005 16:09 , 81.5?F
> > 07/30/2005 16:10 , 81.5?F
> > 07/30/2005 16:11 , 81.5?F
> > 07/30/2005 16:12 , 81.5?F
> > 07/30/2005 16:13 , 81.5?F
> > 07/30/2005 16:14 , 81.5?F
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> > 07/30/2005 16:17 , 80.6?F
> > 07/30/2005 16:18 , 80.6?F
> > 07/30/2005 16:19 , 80.6?F
> > 07/30/2005 16:20 , 80.6?F
> > 07/30/2005 16:21 , 80.6?F
> > 07/30/2005 16:22 , 80.6?F
> > 07/30/2005 16:23 , 80.6?F
> > 07/30/2005 16:24 , 80.6?F
> > 07/30/2005 16:25 , 80.6?F
> > 07/30/2005 16:26 , 80.6?F
> > 07/30/2005 16:27 , 80.6?F
> > 07/30/2005 16:28 , 80.6?F
> > 07/30/2005 16:29 , 80.6?F
> > 07/30/2005 16:30 , 79.7?F
> > 07/30/2005 16:31 , 79.7?F
> > 07/30/2005 16:32 , 79.7?F
> > 07/30/2005 16:33 , 79.7?F
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> > 07/30/2005 16:35 , 79.7?F

> > 07/30/2005 16:36 , 79.7?F
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> > 07/30/2005 16:38 , 79.7?F
> > 07/30/2005 16:39 , 79.7?F
> > 07/30/2005 16:40 , 79.7?F
> > 07/30/2005 16:41 , 79.7?F
> > 07/30/2005 16:42 , 79.7?F
> > 07/30/2005 16:43 , 79.7?F
> > 07/30/2005 16:44 , 79.7?F
> > 07/30/2005 16:45 , 79.7?F
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> > 07/30/2005 16:47 , 79.7?F
> > 07/30/2005 16:48 , 79.7?F
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> > 07/30/2005 16:55 , 79.7?F
> > 07/30/2005 16:56 , 79.7?F
> > 07/30/2005 16:57 , 79.7?F
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> > 07/30/2005 17:01 , 79.7?F
> > 07/30/2005 17:02 , 79.7?F
> > 07/30/2005 17:03 , 79.7?F
> > 07/30/2005 17:04 , 79.7?F
> > 07/30/2005 17:05 , 79.7?F
> > 07/30/2005 17:06 , 79.7?F
> > 07/30/2005 17:07 , 79.7?F
> > 07/30/2005 17:08 , 79.7?F
> > 07/30/2005 17:09 , 79.7?F
> > 07/30/2005 17:10 , 79.7?F
> > 07/30/2005 17:11 , 79.7?F
> > 07/30/2005 17:12 , 79.7?F
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> > 07/30/2005 17:21 , 79.7?F
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> > 07/30/2005 17:24 , 79.7?F
> > 07/30/2005 17:25 , 79.7?F

> > 07/30/2005 17:26 , 79.7?F
> > 07/30/2005 17:27 , 79.7?F
> > 07/30/2005 17:28 , 79.7?F
> > 07/30/2005 17:29 , 79.7?F
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> > 07/30/2005 17:39 , 79.7?F
> > 07/30/2005 17:40 , 79.7?F
> > 07/30/2005 17:41 , 79.7?F
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> > 07/30/2005 17:43 , 79.7?F
> > 07/30/2005 17:44 , 78.8?F
> > 07/30/2005 17:45 , 78.8?F
> > 07/30/2005 17:46 , 78.8?F
> > 07/30/2005 17:47 , 78.8?F
> > 07/30/2005 17:48 , 78.8?F
> > 07/30/2005 17:49 , 78.8?F
> > 07/30/2005 17:50 , 78.8?F
> > 07/30/2005 17:51 , 78.8?F
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> > 07/30/2005 18:27 , 79.7?F
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> > 07/30/2005 18:47 , 79.7?F
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> > 07/30/2005 19:02 , 79.7?F
> > 07/30/2005 19:03 , 79.7?F
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> --
> No virus found in this outgoing message.
> Checked by AVG Anti-Virus.
> Version: 7.0.338 / Virus Database: 267.9.7/60 -
> Release Date: 7/28/05
>
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Start your day with Yahoo! - make it your home page

http://www.yahoo.com/r/hs

1578. Re: [GPSL] Fwd: [Fwd: [HABITAT_SkyLab] Mission Commander Report]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-07-31 22:16:07 UTC
From: Harry M
Topic: 1577 Message: 1578

Congrats Don!

I just re-sent my log. I had an old email address for you.

73 Harry

1579. Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-02 12:56:14 UTC
From: Don KA0JLF
Topic: 1579 Message: 1579

The two video capsules worked great. Here is a frame
from my video capsule looking up at the balloon:
http://habitatskylab.org/BURST1.JPG

More to follow, but out of time right now.

The video is impressive to say the least. I never
realized it was so violent.

Anyone know of software/hardware that would let me
combine the two video files into one side-by-side
screen? I thought of a Quad display type thing with
the videos one looking up, one looking down, with the
flight data also.

73
Don

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1580. Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-02 15:10:19 UTC
From: Hank
Topic: 1579 Message: 1580

> Here is a frame
> from my video capsule looking up at the balloon:
> http://habitatskylab.org/BURST1.JPG

This is magnificent, Don.

> Anyone know of software/hardware that would let me
> combine the two video files into one side-by-side
> screen? I thought of a Quad display type thing with
> the videos one looking up, one looking down, with the
> flight data also.

Tremendous idea. If you could do anything like that type of
video it would be absolutely awesome.

I think Mark and some of the other video pros will have some
suggestions.

Hank

1581. Re: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-02 15:38:54 UTC
From: n9xtn@cox.net
Topic: 1579 Message: 1581

I use Pinnacle Studio and know this doesn't have the capability. You
may need a near-professional video editing solution. You might ask on
the EOSS or ANSR lists as some of those guys have used such software.

Agree with Hank that this is an excellent frame capture. I may just
have to put an upward looking camcorder on one of my future flights.
There's only so much footage of the Iowa/Nebraska horizon that I need.

73 de Mark N9XTN

----- Original Message -----
From: "Hank" <n1ltv@...>
Date: Tuesday, August 2, 2005 10:10 am
Subject: [GPSL] Re: Balloon burst photo of HS05B

> > Here is a frame
> > from my video capsule looking up at the balloon:
> > http://habitatskylab.org/BURST1.JPG
>
> This is magnificent, Don.
>
> > Anyone know of software/hardware that would let me
> > combine the two video files into one side-by-side
> > screen? I thought of a Quad display type thing with
> > the videos one looking up, one looking down, with the
> > flight data also.
>
> Tremendous idea. If you could do anything like that type of
> video it would be absolutely awesome.
>
> I think Mark and some of the other video pros will have some
> suggestions.
>
> Hank

1582. Video quad-view possibility

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-02 16:29:55 UTC
From: Ralph Wallio, W0RPK
Topic: 1582 Message: 1582

Don,

A very interesting project!

I am not aware of reasonably priced software that can assemble something akin to quad-view or picture-in-picture from DVI files. There are, however, a few inexpensive (<=$100) quad-view hardware choices available. You could feed composite video from multiple sources to the multiple inputs of this hardware and synchronize these sources within ~1sec tolerance (see http://www.qvcvideo.com/main/products/?category=25&bcat=37 for examples).

I assume two of these sources would come from your DVI cameras. You could convert your APRS file to formatted video text with something akin to a BOB-III and synchronize it within a similar tolerance (see http://www.decadenet.com/ for BOB-III info).

Multi-window composite video output could then be recorded to tape or DVD.

Hmmm, what to do with the 4th window ...

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1583. Re: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-02 16:55:59 UTC
From: mgray@ess-us.com
Topic: 1579 Message: 1583

I have Adobe Premiere for editing video. I'll be happy to help however I can. Did you record the video using a DV type camera (mini-DV tapes)? Do you have the AVI capture files? If you have high speed Internet, we can exchange the files via FTP.

73s de KD7LMO
Michael Gray

On Tue, 2 Aug 2005 n9xtn@... wrote:

> I use Pinnacle Studio and know this doesn't have the capability. You
> may need a near-professional video editing solution. You might ask on
> the EOSS or ANSR lists as some of those guys have used such software.
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> Agree with Hank that this is an excellent frame capture. I may just
> have to put an upward looking camcorder on one of my future flights.
> There's only so much footage of the Iowa/Nebraska horizon that I need.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Hank" <n1ltv@...>
> Date: Tuesday, August 2, 2005 10:10 am
> Subject: [GPSL] Re: Balloon burst photo of HS05B
>
> > > Here is a frame
> > > from my video capsule looking up at the balloon:
> > > http://habitatskylab.org/BURST1.JPG
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> > This is magnificent, Don.
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1584. RE: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-03 06:39:54 UTC
From: Rick von Glahn
Topic: 1579 Message: 1584

I have Premier Pro and while I was out of town for 2 months I discovered I needed to do a quick video edit so purchased Premier Elements, Adobe's lightweight video editor. I was mightily impressed. Anyway, Premier Pro would have no problem with this, but do you want to spend that kind of money? And Premier Elements is "only" around $100. I actually purchased a combo package that contained both Premier Elements and Photoshop Elements as it was on sale for $130 or so. I just checked to be sure and you can run 4 video tracks. So you could easily import the 2 videos, scale them to quarter screen and add telemetry or perhaps other video in the spare two quadrants.

One nice thing I discovered about Premier Elements. It has more codecs built in. It can read the video files from my stable of Canon Powershot cameras. Premier Pro can't. But, I'll probably install Elements on the main system and get access to all the codecs in both programs when that happens.

Oh, and I'm not volunteering to edit! :-) Since Mike must have an Internet2 grade data connection I defer to him. I'm on lowly broadband running around a megabit per second. Would be just too agonizing to download your video at full miniDV/AVI capture mode (250 megabytes per minute more or less).

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of mgray@...
> Sent: Tuesday, August 02, 2005 9:56 AM
> To: GPSL@yahoogroups.com
> Cc: knsp@yahoogroups.com
> Subject: Re: [GPSL] Re: Balloon burst photo of HS05B
>
> I have Adobe Premiere for editing video. I'll be happy to
> help however I can. Did you record the video using a DV type
> camera (mini-DV tapes)? Do you have the AVI capture files?
> If you have high speed Internet, we can exchange the files via FTP.
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1585. Re: LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-03 13:06:08 UTC
From: Hank
Topic: 1470 Message: 1585

Harry,

There are a few things I'd like to ask you off list, but
that still leaves several points you've raised that can
be addressed here which might be of general interest.

> I have tried interpolating between manuf. & sizes with a
> lot of mixed results..

[the following is not directed to you Harry, but to those
other users of LIFTWIN on this list]

------begin contacting software author suggestions------

Anytime you have documented results, or even undocumented,
you can email me for thought, comments, or possible
explanations. By documented results I mean things like
your actual vs. predicted ascent velocity and how much gas
was used. Not necessary to know every detail like air
temperature at launch site.

Please do not depend on my reading your requests on ANY
mail list, Yahoo or otherwise. Recent programs contain
my amsat email address (I think the old ones as well), and
it's also in QRZ. I reply fully in email, and am known to
get on the phone to help with more complicated situations
that would be too slow and tedious by email.

n1ltv@...

------end contacting software author suggestions------

> I even called Kaysam a while back & they didn't even have
> records of these.

If *they* don't, there's nothing I can do about this in
LIFTWIN. It's not atypical for a company to not know,
or to not bother to find out, about older products no
longer made.

> What I have more of are labeled "Kaysam SW16" dated (2001).
> They weigh out to be 825-850g. I have been getting 1100-1300
> fpm when LW says 900 fpm.

The burst height is dependent on factors which are under
the control of the balloon maker. The ascent speed is a
more fundamental value which is *not* a first order function
of balloon manufacture aside from its weight.

This error you mention of 1100-1300 instead of 900 is something totally *unrelated* to any qualities of the balloon that you'd need to get from Kaysam.

I'd like to discuss this off list with you Harry further because you can certainly do better, on average, with the ascent speed than that.

Harry and I have already discussed interpolation and other workarounds.

Hank

1586. Re: LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-03 13:18:09 UTC
From: Hank
Topic: 1470 Message: 1586

> I forgot to mention that at one time I wanted a (-) negative
> burst adjustment in LiftWin and was suprised I couldn't.

I don't think that negative burst adjust will be needed
much, but I could be wrong. This is the very first time
I ever heard someone could have used that, or thinks he
could have used that. It's actually a distinct possibilty
that your overly fast ascent speed and lower burst height
are related, and better solved by better fundamental inputs
to the program, rather than relying on adjustment factors.

If I don't know people need it, it might not ever appear in
the program.

The moral: talk to your software authors. If it's someone
like Rick, chances are pretty good your wish will be granted.
With me the chances aren't nearly as good because, among other
reasons, I don't mess with the product often.

The burst adjustment feature itself was added by user request.

Hank

1587. Re: LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-03 13:44:25 UTC
From: Hank
Topic: 1470 Message: 1587

> I've got LiftWin 0.41, and the set profile feature is still under
> construction in that version. Is there a newer one out there now?

Mike,

I had totally forgotten that the vestige of profile code is
mistakenly in that .41 release! I rushed it onto the website
ages ago for TVNSP to use, and think at that time knew the
profile was in there, and the thought was to take it out in a
week or so when I had a chance. It never happened, the profile
is still there, and it was only recently that I rediscovered it.
Someone might have told me. The program development source code
and tools are in another, now unused, computer or it would be
fixed by now.

There is no newer version than LW .41.

> BTW, Liftwin hit our numbers re ascent rate right on for
> GPSL 05, but predicted a bit higher burst (that's very
> unit-specific!).

Just as with balloon landing predictions, right-on LW
predictions occur by chance. But thanks for
mentioning it. :)

As for the burst, you're exactly right about it definitely
being unit-specific, and it's also *sensitive* to the actual
cubic feet pumped into the balloon.

> Keep up the good work, and drop by GPSL sometime, eh?

Thank you on both counts, but two (humorous) thoughts
about GPSL:

1. Do consider running GPSL in New England or New York
soon. :) Chances are very good I'll be stopping by.

2. Until that radical change of venue, I'll continue to
apply for NSF and Space Grant money to travel to these
wonderful GPSLs. :) I guess I could also dip into
that pile of money I've been informed is waiting for me
in Nigeria.

> It's a real gas ...

Was that really necessary, Mike? :) Up to that point
you were being good. :)

Hank

1588. Re: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-04 03:37:25 UTC
From: Mike Manes
Topic: 1579 Message: 1588

Mike Who? I have a 1st Class 56K dialup, I'm here to tell ya!
So PUHLEEZ don't ship me anything over 1 Meg.

Hey, Don, nice hi-res color shot of the burst. EOSS got a similar
picture from the ATV downlink back about EOSS-16 or so. Merle saved off
JPEGS of each frame, and we show that "album" of about 10 pix showing
the
progress of the burst in 32 msec increments. The video was about P4 &
B/W,
but it's a real attraction at hamfests. And someone told me that they
were used to brief NASA or some other agency on burst behavior. Betcha
yer P5 color video frame grab series would be even prettier!

73 de Mike W5VSI

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> > Sent: Tuesday, August 02, 2005 9:56 AM
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> > Cc: knsp@yahoogroups.com
> > Subject: Re: [GPSL] Re: Balloon burst photo of HS05B
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Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

1589. RE: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-04 06:29:11 UTC
From: Rick von Glahn
Topic: 1579 Message: 1589

Ahh, how quickly they forget! :-)

We got some strong P3 possibly P4 video of the burst from ATV aboard EOSS-086. You can see this video which also (in the longer version) shows the de-spinner at work. The series of stills Mike was mentioning from EOSS-030 are also at the website. You can see this stuff by visiting our Cool Stuff page:

http://www.eoss.org/cool_stuff.htm

There are links to things on our website I particularly like but, I'm open to suggestions if I've left out any memorable pictures, videos, sound files etc.

And don't worry, MM that was MG (Mike Gray from Ansr) who offered to accept the video files via FTP. No matter what, they're too big for anything but ftp. I don't think I know of an email system that can handle individual attachments over 50 megs at present. But, that will probably change in the future as connect speeds continue to inch up to the Korean standards (20 Mbps)

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Mike Manes
> Sent: Wednesday, August 03, 2005 8:37 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: Balloon burst photo of HS05B
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1590. Re: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-04 12:31:23 UTC
From: Don KA0JLF
Topic: 1579 Message: 1590

Everyone keep in mind this photo was a frame grabbed
from our 'cheap' ($120) video camera from Wal-Mart.
The video is 352x288 (quarter VGA). This is the one
discussed on here and other groups a week or so ago.

I again say, I'm pleased with it! ;-)

Don

--- Mike Manes <manes@...> wrote:

> Mike Who? I have a 1st Class 56K dialup, I'm here
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> impressed. Anyway, Premier Pro would
> > have no problem with this, but do you want to
> spend that kind of money? And
> > Premier Elements is "only" around $100. I actually
> purchased a combo package

> > that contained both Premier Elements and Photoshop
> Elements as it was on sale
> > for $130 or so. I just checked to be sure and you
> can run 4 video tracks. So
> > you could easily import the 2 videos, scale them
> to quarter screen and add
> > telemetry or perhaps other video in the spare two
> quadrants.
> >
> > One nice thing I discovered about Premier
> Elements. It has more codecs built
> > in. It can read the video files from my stable of
> Canon Powershot cameras.
> > Premier Pro can't. But, I'll probably install
> Elements on the main system and
> > get access to all the codecs in both programs when
> that happens.
> >
> > Oh, and I'm not volunteering to edit! :-) Since
> Mike must have an Internet2
> > grade data connection I defer to him. I'm on lowly
> broadband running around a
> > megabit per second. Would be just too agonizing to
> download your video at full
> > miniDV/AVI capture mode (250 megabytes per minute
> more or less).
> >
> > 73 -- Rick, N?KKZ
> >
> >
> >
> > > -----Original Message-----
> > > From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com] On
> > > Behalf Of mgray@...
> > > Sent: Tuesday, August 02, 2005 9:56 AM
> > > To: GPSL@yahoogroups.com
> > > Cc: knsp@yahoogroups.com
> > > Subject: Re: [GPSL] Re: Balloon burst photo of
> HS05B
> > >
> > > I have Adobe Premiere for editing video. I'll
> be happy to
> > > help however I can. Did you record the video
> using a DV type
> > > camera (mini-DV tapes)? Do you have the AVI
> capture files?
> > > If you have high speed Internet, we can exchange
> the files via FTP.
> > >

> > > 73s de KD7LMO
> > > Michael Gray
> > >
> > >
> > >
> > > On Tue, 2 Aug 2005 n9xtn@... wrote:
> > >
> > > > I use Pinnacle Studio and know this doesn't
> have the
> > > capability. You
> > > > may need a near-professional video editing
> solution. You
> > > might ask on
> > > > the EOSS or ANSR lists as some of those guys
> have used such
> > > software.
> > > >
> > > > Agree with Hank that this is an excellent
> frame capture. I
> > > may just
> > > > have to put an upward looking camcorder on one
> of my future flights.
> > > > There's only so much footage of the
> Iowa/Nebraska horizon
> > > that I need.
> > > >
> > > > 73 de Mark N9XTN
> > > >
> > > > ----- Original Message -----
> > > > From: "Hank" <n1ltv@...>
> > > > Date: Tuesday, August 2, 2005 10:10 am
> > > > Subject: [GPSL] Re: Balloon burst photo of
> HS05B
> > > >
> > > > > Here is a frame
> > > > > from my video capsule looking up at the
> balloon:
> > > > > http://habitatskylab.org/BURST1.JPG
> > > > >
> > > > > This is magnificent, Don.
> > > > >
> > > > > Anyone know of software/hardware that
> would let me
> > > combine the two
> > > > > video files into one side-by-side screen?
> I thought of a Quad
> > > > > display type thing with the videos one
> looking up, one looking
> > > > > down, with the flight data also.
> > > > >

> > > > > Tremendous idea. If you could do anything
> like that type
> > > of video
> > > > > it would be absolutely awesome.
> > > > >
> > > > > I think Mark and some of the other video
> pros will have some
> > > > > suggestions.
> > > > >
> > > > > Hank
> > > >
> > > >
> > > >
> > > >
> > > > Yahoo! Groups Links
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> > > --
> > > No virus found in this incoming message.
> > > Checked by AVG Anti-Virus.
> > > Version: 7.0.338 / Virus Database: 267.9.8/61 -
> Release Date: 8/1/2005
> > >
> > >
> >
> > --
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> Release Date: 8/1/2005
> >
> >
> >
> > Yahoo! Groups Links

> >
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> >
>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
>
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
>
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>

Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1591. ARHAB 2005 contests - standings through July

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-05 12:55:51 UTC
From: Ralph Wallio, W0RPK
Topic: 1591 Message: 1591

Current standings in ARHAB 2005 contests:

Altitude - 5 entries - 118,352ft ISU/HABET (#1- 120,522ft)
Track distance - 2 entries - 174.3mi GPA DIY ZP (#1- 1,201.18mi)
Flight time - 2 entries - 5:46:12 GPA DIY ZP (#1- 22:42:11)
>50MHz telemetry - 2 entries - 190.8mi W0RPK/KUBEsat (#1- 479.5mi)
<50MHz telemetry - 0 entries (#1- 2,437mi)
QSO - 0 entries (#1- 647mi EBE)

Heard in the static:

A few more altitude attempts
Nothing about distance and time
>50MHz distance will increase (by me at least)
Nothing about HF telemetry payloads
Multiple repeaters yet to fly

Comments:

We know how to float for time and distance - are there secret projects?
Where are the HF telemetry payloads?
Multiple repeaters have flown but why no entries?

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1592. Re: [GPSL] Re: LIFTWIN available balloon types

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-05 15:07:46 UTC
From: Mike Manes
Topic: 1470 Message: 1592

Hi Hank,

Thanks for providing LiftWin to the balloon community. It sure is
a handy tool if one recognizes that latex balloons are not built
like Swiss watches. It helps pick the right balloon for the job, and
if one fills per its advice for about 1000 fpm, it won't stall and
will hit the predicted burst altitude, give or take 10K ft.

Hmmm ... a GPSL out of New England, huh? Well, you might consider
coming up with a modified expansion for the "GP" part ... Great Pines,
e.g.?

Good luck with all o' them Nigerian scambucks ... might consider
a generous donation to an NGO taking care of those starving orphans :={

And my apologies for the balllooncy pun ... this stuff does have its
ups and downs, y'know.

73 de Mike W5VSI
EOSS

Hank wrote:
>
> > I've got LiftWin 0.41, and the set profile feature is still under
> > construction in that version. Is there a newer one out there now?
>
> Mike,
>
> I had totally forgotten that the vestige of profile code is
> mistakenly in that .41 release! I rushed it onto the website
> ages ago for TVNSP to use, and think at that time knew the
> profile was in there, and the thought was to take it out in a
> week or so when I had a chance. It never happened, the profile
> is still there, and it was only recently that I rediscovered it.
> Someone might have told me. The program development source code
> and tools are in another, now unused, computer or it would be
> fixed by now.
>
> There is no newer version than LW .41.
>
> > BTW, Liftwin hit our numbers re ascent rate right on for
> > GPSL 05, but predicted a bit higher burst (that's very
> > unit-specific!).
>
> Just as with balloon landing predictions, right-on LW
> predictions occur by chance. But thanks for

> mentioning it. :)
>
> As for the burst, you're exactly right about it definitely
> being unit-specific, and it's also *sensitive* to the actual
> cubic feet pumped into the balloon.
>
> > Keep up the good work, and drop by GPSL sometime, eh?
>
> Thank you on both counts, but two (humorous) thoughts
> about GPSL:
>
> 1. Do consider running GPSL in New England or New York
> soon. :) Chances are very good I'll be stopping by.
>
> 2. Until that radical change of venue, I'll continue to
> apply for NSF and Space Grant money to travel to these
> wonderful GPSLs. :) I guess I could also dip into
> that pile of money I've been informed is waiting for me
> in Nigeria.
>
> > It's a real gas ...
>
> Was that really necessary, Mike? :) Up to that point
> you were being good. :)
>
> Hank
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1593. Re: [GPSL] ARHAB 2005 contests - standings through July

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-05 16:43:38 UTC
From: Mike Manes
Topic: 1591 Message: 1593

Hi Ralph,

Re altitude: big balloon, proper fill and light neck load are the
secrets. Gets pricey. We'll see how our surplus 7000 gm bag does
with about 5 lb on the neck on EOSS-98 ...

Re floating: the risk of going derelict, spending a long time tracking
and driving a long way for recovery are disincentives to bettering
on purpose what's been done accidentally to date. EOSS did one with
Norm Kjome and the USAFA way back using a ZP plastic. It hit 100K' and
stayed there for 8 hours, making a 200-mike long oval in the
stratosphere and returning to the original float position where cutdown
was commanded.

Re HF beacons: merely interesting, since altitude doesn't help
ionospheric skip DX. And ground wave attenuation is much worse on
HF than on VHF, especially if one is using a short, inefficient antenna.
Signal reports from 1000 mi away after landing are amusing, but don't
help recovery if you gotta be within a few hundred yards to DF it. (But
if the DX station can call in APRS reports ... 'nother story!).

Re EBBE: Didn't HABITAT turn that trick last year? And I did log your
UI text to me via NSTAR and EOSS while I was navigating with N0KKZ
during
GPSL 2004, but didn't notice it until poring over the log file the
next day. Had you tried C W5VSI-1 via EOSS, NSTAR then it woulda
sounded
the connect bell on the laptop sitting on the floor.

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Current standings in ARHAB 2005 contests:
>
> Altitude - 5 entries - 118,352ft ISU/HABET (#1- 120,522ft)
> Track distance - 2 entries - 174.3mi GPA DIY ZP (#1- 1,201.18mi)
> Flight time - 2 entries - 5:46:12 GPA DIY ZP (#1- 22:42:11)
> >50MHz telemetry - 2 entries - 190.8mi W0RPK/KUBEsat (#1- 479.5mi)
> <50MHz telemetry - 0 entries (#1- 2,437mi)
> QSO - 0 entries (#1- 647mi EBE)
>
> Heard in the static:
>
> A few more altitude attempts
> Nothing about distance and time

> >50MHz distance will increase (by me at least)
> Nothing about HF telemetry payloads
> Multiple repeaters yet to fly
>
> Comments:
>
> We know how to float for time and distance - are there secret projects?
> Where are the HF telemetry payloads?
> Multiple repeaters have flown but why no entries?
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1594. Re: [GPSL] ARHAB 2005 contests - standings through July

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-05 19:11:22 UTC
From: Ralph Wallio, W0RPK
Topic: 1591 Message: 1594

Hi Mike,

Responding to your comments:

We appear to have evidence that big balloons lifting light payloads don't necessarily set altitude records. Pete Sias has three entries in our altitude category, #5, #6 and #11, that were 3000g balloons lifting ~2.5lbs. All three segued to floating below record altitude. Note that our 2004 altitude record by TVNSP (#2 all-time record) was with a 1200g balloon lifting 1.1lbs. There appears to be a problem here that brute force does not necessarily solve.

We know when and how high to float for time with very little lateral track (including during September +/-). It would be just as recoverable as any up-and-down flight. We know when and how high to float for maximum distance (Nov-Jan +/-). Throw-away APRS payloads ($100-200) could be flown coast-to-coast and cut-away over blue water. I do not consider a floater above 60kft to be derelict. Flights can be designed and managed to float well above controlled airspace and be reliably cut-down. We know how to do it all.

HF telemetry allows flight participation by Hams well beyond VHF/UHF horizon. In my opinion this is a worthy goal with ionospheric propagation of slow speed telemetry. Given notice via e-mail lists and bulletins there would be many distant participants. Low SNR modes, e.g., CW and PSK-31, allow use of very low power. 1W would be successful as it is with our QRP corps. It would be reasonable to use an efficient 33ft full-size end-fed half-wave on 20m.

Ground wave propagation on VHF is off-the-chart short and -much- shorter than HF, even 30MHz. VHF propagation for DFing is by troposcatter, not ground wave. But it is irrelevant because HF is not being flown as a DFing beacon. VHF APRS and DF beacons would still be used. Recovery methods and management would not change.

Yes, we have had EBBE QSOs and they are in the record book. However, so far they have been substantially shorter, station-to-station, than our top 10 EBE QSOs. We are flying the repeaters. We are not promoting activity at the edges of coverage nor QSO record entries.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1595. Pictures added to EOSS's GPSL 2005 recap

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-05 22:11:40 UTC
From: Rick von Glahn
Topic: 1595 Message: 1595

Marty Griffin sent me a few hundred photos (actually 127 pictures) of the GPSL 2005 experience. I've put off incorporating them to the website long enough. So, I just posted 32 of them to the EOSS-092 recap page. If you go to:

http://www.eoss.org/ansrecap/ar_100/recap92.htm

And scroll down to the Photos section, everything labeled as photographed by Marty is new. Marty took lots more people photos than I did.

Check it out.

73 -- Rick, NØKKZ

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.338 / Virus Database: 267.10.1/64 - Release Date: 8/4/2005

1596. Re: [GPSL] ARHAB 2005 contests - standings through July

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-06 19:57:03 UTC
From: Mike Manes
Topic: 1591 Message: 1596

Hi Ralph,

I suspect that ascent rate (excess lift) may have a lot to do with burst altitude, but there's an apparent non-intuitive effect. On our last pair of flights July 30, we used identical 3000 balloons carrying nearly identical neck loads (23 +/- 1 lb). EOSS-96 was filled per our customary "a little more gas" protocol and developed a 1300 fpm ascent rate to a burst over 99K'.

After EOSS-96 launched, EOSS-97 was filled, but a bit lighter (there was some false lift) and hit a worrisome initial ascent rate of under 300 fpm, gradually increasing to over 600 fpm; but it ended up bursting at only about 83K'.

So a light fill in this example resulted in the expected lower ascent rate, but an unexpected LOWER burst altitude. Norm Kjome has observed this as well and theorizes that the longer UV exposure during a slow ascent may weaken the balloon skin due to breaking latex elastomer cross-links. This phenom may also reduce the elasticity of latex, which could also explain the oft-observed inflection in ascent rate in the latter third of ascent.

So it may be worthwhile to take a closer look at Paul's and Pete's initial ascent rates to see if there's any evidence of this effect.

But given a proper fill, I've got a 5-spot that sez a big balloon with a light payload is gonna go higher than a small, heavy one.

Re long-duration flights: if the flight is gonna go overnight and still stay above FL600, then there's gotta be a ballast dump. I know there are proposed schemes out there intended to achieve this, but so far, I've not seen where any are flight-proven. Another issue is battery life and thermal management in the payload. And then there's that spooky UV exposure issue ...

BTW, the FAA defines a derelict as a non-exempt balloon, the location and/or altitude of which is unknown for over 2 hours, regardless of actual altitude (they know it's gonna come down, by 'n by).

Re "throwaway" payloads: maybe after EOSS's recovery record gets its first scratch. We've worked too keep it.

Re DF beacon range: foliage, at least the type found in E. Colo, appears to attenuate 10m sigs much more than 2m when the beacon is on the deck. This has been verified empirically on several of EOSS's early flights as well as with voice comms between terrestrial stations 25 miles apart. At this and shorter range, tropo conditions are irrelevant.

Re HF PSK31 telemetry: I believe that ANSR and Gustavo LW2DTZ have done this. Not sure what best DX was, but with good skip, the limit is 12,500 miles (half Earth circumference).

Re long-haul EBBE: I don't think one can expect the BB path length to approach the EB path length, primarily due to lower-gain antennas and lower ERP. During EOSS-90, I was about 350 miles away in W. WY, and I >think< I might have heard just a peep of the DF beacon for a minute or two at apogee of 98K'. I was using a 5/8 gain mag mount on the roof of the car and two separate rcvrs. I think a long yagi and LNA woulda helped a whole lot. There's also some question about how having both stations above the tropopause may affect limiting range. ANSR and EOSS have yet to make the BB path between AZ and CO, despite favorable propagation predictions. More research is needed!

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Hi Mike,
>
> Responding to your comments:
>
> We appear to have evidence that big balloons lifting light payloads don't
> necessarily set altitude records. Pete Sias has three entries in our
> altitude category, #5, #6 and #11, that were 3000g balloons lifting ~2.5lbs.
> All three segued to floating below record altitude. Note that our 2004
> altitude record by TVNSP (#2 all-time record) was with a 1200g balloon
> lifting 1.1lbs. There appears to be a problem here that brute force does
> not necessarily solve.
>
> We know when and how high to float for time with very little lateral track
> (including during September +/-). It would be just as recoverable as any
> up-and-down flight. We know when and how high to float for maximum distance
> (Nov-Jan +/-). Throw-away APRS payloads ($100-200) could be flown
> coast-to-coast and cut-away over blue water. I do not consider a floater
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> horizon. In my opinion this is a worthy goal with ionospheric propagation
> of slow speed telemetry. Given notice via e-mail lists and bulletins there
> would be many distant participants. Low SNR modes, e.g., CW and PSK-31,
> allow use of very low power. 1W would be successful as it is with our QRP
> corps. It would be reasonable to use an efficient 33ft full-size end-fed
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> Ground wave propagation on VHF is off-the-chart short and -much- shorter
> than HF, even 30MHz. VHF propagation for DFing is by troposcatter, not
> ground wave. But it is irrelevant because HF is not being flown as a DFing
> beacon. VHF APRS and DF beacons would still be used. Recovery methods and

> management would not change.
>
> Yes, we have had EBBE QSOs and they are in the record book. However, so far
> they have been substantially shorter, station-to-station, than our top 10
> EBE QSOs. We are flying the repeaters. We are not promoting activity at
> the edges of coverage nor QSO record entries.
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> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1597. RE: [GPSL] Re: Balloon burst photo of HS05B

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-06 21:41:20 UTC
From: Rick von Glahn
Topic: 1579 Message: 1597

WRONG!!

In my email about combining video in an editor I made the comment below. That comment is in error. At least to the extent that the codec to play videos from Canon Powershot cameras is concerned.

For those interested, here is the real story. Originally it was in this email but, the majority of you probably don't want to read the whole story. I did find out what was going on and how to cure it.

http://www.vonglahn.com/video_codec.htm

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Rick von Glahn
> Sent: Tuesday, August 02, 2005 11:40 PM
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] Re: Balloon burst photo of HS05B

...snip...

> One nice thing I discovered about Premier Elements. It has
> more codecs built in. It can read the video files from my
> stable of Canon Powershot cameras.
> Premier Pro can't.

...snip...

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.338 / Virus Database: 267.10.1/64 - Release Date: 8/4/2005

1598. [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 15:22:09 UTC
From: Don KA0JLF
Topic: 1598 Message: 1598

Oh, I see, the email I sent it from was not subscribed
to send to the list(s).

Sorry,
Don

--- Don Pfister wrote:

> Date: Sun, 07 Aug 2005 10:12:42 -0500
> From: Don Pfister
> To: GPSL@yahoogroups.com, knsp@yahoogroups.com
> CC: ka0jlf@...
> Subject: [[Fwd: Potential Low Cost Video Camera for
Balloon]
>
> So many emails, so little time... I thought I sent
> these links to one of
> the (balloon) groups (I guess not).
>
> Here are links for the cameras we are using.
>
> Don
>
> Don Pfister wrote:
> >
> > Here is the website that come on my camera's
> packaging:
> > http://www.2fidelity.com/ this is the camera
> Larry M and I have now -
> > max memory 1 GB SD card $70 on their web site - I
> saw that price in an
> > ad for MicroCenter I think, with a $20 rebate or
> just $20 off, I don't
> > remember.
> >
> > It has a link to:
> > http://www.aiptek.com/ it shows info (specs) on
> several of their
> > cameras, including both the one Larry M and I have
> (above) and the link
> > David sent (below).
> >
> > There seems to be about $30 or $40 difference in
> price, but our's will
> > handle 1 GB SD card, the one David sent seems to
> be limited to 512 MB

> > CF. But that difference will almost pay for the CF
> memory card.
> >
> > I'm going to get at least one more of these when I
> get the money. After
> > watching the video, I think I want one pointing up
> at the balloon on
> > each flight. Now it may be just the camera (I
> think about 4 or 5 oz.) in
> > with another capsule or something to keep the
> weight down.
> >
> > I now see why packages have broken loose and
> fallen by them selfs
> > without any explaination. I think you will be
> amazed too once you see
> > the video. We can fastforward though a lot of it
> that doesn't matter
> > (hopefully we can). ;-)
> >
> ...
> >
> > Don
> >
> > Don Pfister wrote:
> > >
> > > This did look interesting, not sure how large of
> compact memory it will
> > > take. $70 it might be better to stay with the SD
> card we have (I'm
> > > wanting a second camera after our last flight).
> > >
> > > I'm thinking one looking at the balloon each
> flight might be very
> > > telling.
> > >
> > > 73
> > > Don
> > >
> > > David Kanter wrote:
> > > >
> > > > Hi Don,
> > > >
> > > > I saw this and thought it might be something
> you or your group might be
> > > > interested in.
> > > >
> > > >
> >
http://www.compusa.com/products/product_info.asp?&ref=cj&pfp=cj&product_code=317202

> > > >
> > > > Best Regards,
> > > >
> > > > David
>
>
> --
> No virus found in this outgoing message.
> Checked by AVG Anti-Virus.
> Version: 7.0.338 / Virus Database: 267.10.1/64 -
> Release Date: 8/4/05
>
>

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1599. Re: [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 15:56:58 UTC
From: Hank Riley
Topic: 1598 Message: 1599

> > > http://www.2fidelity.com/ this is the camera
> > Larry M and I have now

Don,

This looks like a capable gizmo. Do you have any samples
of straight jpegs done with this camera in still mode on
your website at present?

I'd like to see how it performs that way.

Hank

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1600. Re: [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 16:09:16 UTC
From: kc0mic
Topic: 1598 Message: 1600

All,

After checking around the 'net and reading some reviews, I checked out the www.aiptek.com site and found that they had the camera that HABITAT-SKYLAB is using (the DV-5900) either new or refurbished. (Could not find one at a Walmart.)

The refurb price was $119.00 and the new price is $150.00
Guess which one I bought ?

Anyway, there were a couple of reviews that made a reference to the to big improvements make between the previous model (DV4100) and this one. Add the ability to use 1gb SD as opposed to 512mb and I figured the extra $20 was worth it.

I thought about the next step up, th IS-DV, but I'm not as sure about the Li-Lon batteries as I'd like to be. Refurbs are only $10 more but the kickers were - "none of the improvements added any video time", "they had the same number of pixels" and "somebody else has done it with the DV-5900 so we should be able to get it to work".

We plan on flying it on 27-Sep or 15-Oct. We'll post the results.

Like Don, I'd sure like to point one up and one down :-) Getting good information about 'post-burst chaos' would make it easier to design some sort of 'burst detector' that you let you cutaway the balloon at burst automatically instead of just guess at it.

Don... Did you use external batteries ? If not, what did you use and how did they last? Did you make any mods to the camera or just turn it on? How many minutes did 1gb hold?

Thanks!

73 de Troy, KC0MIC

--- In GPSL@yahoogroups.com, Don KA0JLF <ka0jlf@a...> wrote:
> Oh, I see, the email I sent it from was not subscribed
> to send to the list(s).
>
> Sorry,
> Don
>
> --- Don Pfister wrote:
>
> > Date: Sun, 07 Aug 2005 10:12:42 -0500
> > From: Don Pfister

> > To: GPSL@yahoogroups.com, knsp@yahoogroups.com
> > CC: ka0jlf@a...
> > Subject: [[Fwd: Potential Low Cost Video Camera for
> Balloon]
> >
> > So many emails, so little time... I thought I sent
> > these links to one of
> > the (balloon) groups (I guess not).
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> > Here are links for the cameras we are using.
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> > Don
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> > Don Pfister wrote:
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> > > Here is the website that come on my camera's
> > packaging:
> > > http://www.2fidelity.com/ this is the camera
> > Larry M and I have now -
> > > max memory 1 GB SD card $70 on their web site - I
> > saw that price in an
> > > ad for MicroCenter I think, with a $20 rebate or
> > just $20 off, I don't
> > > remember.
> > >
> > > It has a link to:
> > > http://www.aiptek.com/ it shows info (specs) on
> > several of their
> > > cameras, including both the one Larry M and I have
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> > > David sent (below).
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> > > There seems to be about $30 or $40 difference in
> > price, but our's will
> > > handle 1 GB SD card, the one David sent seems to
> > be limited to 512 MB
> > > CF. But that difference will almost pay for the CF
> > memory card.
> > >
> > > I'm going to get at least one more of these when I
> > get the money. After
> > > watching the video, I think I want one pointing up
> > at the balloon on
> > > each flight. Now it may be just the camera (I
> > think about 4 or 5 oz.) in
> > > with another capsule or something to keep the
> > weight down.
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> > > I now see why packages have broken loose and
> > fallen by them selfs

> > > without any explaination. I think you will be
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> > > > >
> > > > David Kanter wrote:
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> > > > > Hi Don,
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> > > > > I saw this and thought it might be something
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>
http://www.compusa.com/products/product_info.asp?&ref=cj&pfp=cj&product_code=317202
> > > > > >
> > > > > Best Regards,
> > > > > >
> > > > > David
> > >
> > >
> > > --
> > No virus found in this outgoing message.
> > Checked by AVG Anti-Virus.
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> > Release Date: 8/4/05
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1601. Re: [GPSL] Re: [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 16:44:58 UTC
From: Don KA0JLF
Topic: 1598 Message: 1601

No but I'll try to throw one up there right away. I've
got some of the mission commander "Major Happy" right
after recovery.

I don't think it was at the best resolution it will
do.

Don

--- Hank Riley <n1ltv@...> wrote:

> > > > http://www.2fidelity.com/ this is the
> camera
> > > > Larry M and I have now
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> Don,
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> This looks like a capable gizmo. Do you have any
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1602. Re: [GPSL] Re: [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 16:59:09 UTC
From: Don KA0JLF
Topic: 1598 Message: 1602

--- kc0mic <kc0mic@...> wrote:

> All,
>
> After checking around the 'net and reading some
> reviews, I checked out the www.aiptek.com site and
found that they had the
> camera that HABITAT-SKYLAB is using (the DV-5900)
either new or refurbished.
> (Could not find one at a Walmart.)

When I got mine, the Walmart at 75th & I-35 (E
frontage rd) they had several. They were in a locked
case with other cameras, clerk had to get it.

> The refurb price was $119.00 and the new price is
> $150.00 Guess which one I bought ?

Mine was new, and with tax about $110.

> Anyway, there were a couple of reviews that made a
> reference to the to
> big improvements make between the previous model
> (DV4100) and this
> one. Add the ability to use 1gb SD as opposed to
> 512mb and I figured
> the extra $20 was worth it.

Me too, Larry M had the older one (link sent by David)
but it was limited to the 512 MB.

>
> I thought about the next step up, th IS-DV, but I'm
> not as sure about
> the Li-Lon batteries as I'd like to be. Refurbs are
> only $10 more but
> the kickers were - "none of the improvements added
> any video time",
> "they had the same number of pixels" and "somebody
> else has done it
> with the DV-5900 so we should be able to get it to
> work".

We have the DV-5900 as you said before.

>
> We plan on flying it on 27-Sep or 15-Oct. We'll

> post the results.

We have flights scheduled for 8/28/05 and 9/10/05. We should have the ATV connected to it today at our work session. Using the included A/V cable.

> Like Don, I'd sure like to point one up and one down
> :-) Getting good
> information about 'post-burst chaos' would make it
> easier to design
> some sort of 'burst detector' that you let you
> cutaway the balloon at
> burst automatically instead of just guess at it.

I think you would be surprised about the flight up too, pre-burst. I was!

> Don... Did you use external batteries ? If not,
> what did you use and how did they last?

Internal, NiMH 2300 mah, from Associated Radio, worked well. They lasted longer than I realized. Other words, I haven't timed them. However, they not only recorded the flight, but played it back several times (or parts of it). On this last flight, the record time was about 2 hours. We played it back at lunch full length (another 2 hours). I started and stopped it several times, and took some photos with it.

> Did you make any mods to the camera or just turn
> it on?

No, just turned it on and put it in the capsule.

> How many minutes did 1gb hold?

I have gotten over 2 1/2 hours, Larry M too if I remember right.

How much it will hold depends on how much the scene changes I think. But package says for a 1 GB at QVGA (352x288) 128 - 192 minutes. I'd say that is about right. Larry M got the entire flight at GPSL.

>
> Thanks!
>
> 73 de Troy, KC0MIC
>
>
>
>
> --- In GPSL@yahoogroups.com, Don KA0JLF

> <ka0jlf@a...> wrote:
> > Oh, I see, the email I sent it from was not
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> > to send to the list(s).
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1603. DV-5900 - photos upload

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 17:21:45 UTC
From: Don KA0JLF
Topic: 1598 Message: 1603

3 photos of the mission commander have been added to
the http://www.habitatskylab.org web page. These are
right out of the camera, no editing or sizing etc.

Now I took these in bright sunlight minutes after the
flight, it was hard to see the LCD screen (brightness
can be adjusted I think through the menu). So it might
not be the best focus, due to operator error but it
gives you an idea. These might not be representative
of the best the camera can do, condensation after the
flight, dusty road, etc. But it gives a clue.

Don

--- Don KA0JLF <ka0jlf@...> wrote:

> No but I'll try to throw one up there right away.
> I've got some of the mission commander "Major Happy"
> right after recovery.
>
> I don't think it was at the best resolution it will
> do.
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> Don
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> --- Hank Riley <n1ltv@...> wrote:
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> > camera
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1604. Re: [GPSL] DV-5900 - photos upload

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 17:26:34 UTC
From: Don KA0JLF
Topic: 1598 Message: 1604

Oh, some other things that I haven't tried yet but did
have some interest in:
Digital voice recorder
MP3 player

Thinking of SSTV, capture on the balloon. Or digital
voice recorder of simplex repeaters, contacts etc.
RE-play pre-recorded messages (MP3 or wav?)?

The digital Video recorder did record sound during the
whole flight, even the balloon burst. This could be
used to record, received audio on one of the other
modes/radios (APRS beacons?).

Don

--- Don KA0JLF <ka0jlf@...> wrote:

> 3 photos of the mission commander have been added to
> the http://www.habitatskylab.org web page. These are
> right out of the camera, no editing or sizing etc.
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> Now I took these in bright sunlight minutes after
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1605. RE: [GPSL] Re: [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-07 21:40:27 UTC
From: Mark Conner
Topic: 1598 Message: 1605

At the Bellevue NE Wal-Mart, it's in a blister pack right next to the SD and CF cards in the photo area for $98. For some reason it's not on the walmart.com web site. I've seem them at a couple of other Omaha-area stores in roughly the same area. They are marked as a "Fidelity" camera, which apparently is an Aiptek division.

There are a couple of low-cost digital cameras in the same location. The 2Mp camera is $40 and the 3Mp is $60. The 2Mp version does not have a TFT display, which may be an advantage for battery life. This may be a low-cost way to add digital pictures to balloon payloads (though it will probably require wiring to a BS2p or similar timing capability).

73 de Mark N9XTN

1606. RE: [GPSL] Re: [Fwd: Potential Low Cost Video Camera for Balloon]]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-08 04:19:08 UTC
From: Don KA0JLF
Topic: 1598 Message: 1606

Yes, a blister pack, largely Orange with some Black
and White.

I think I'll try to make up a shorter audio/video
cable with a right angle plug (less clearence on the
front side).

73
Don

--- Mark Conner <n9xtn@...> wrote:

> At the Bellevue NE Wal-Mart, it's in a blister pack
> right next to the SD and
> CF cards in the photo area for $98. For some reason
> it's not on the
> walmart.com web site. I've seem them at a couple of
> other Omaha-area stores
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1607. Ham radio high alt. ballooning prohibited in U.K.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-13 15:50:30 UTC
From: Hank
Topic: 1607 Message: 1607

This is amazing. I can't believe this prohibition
has lasted this long, in the UK of all places where
sat activity is high and amateur radio satellite
technical achievement so prominent.

Hank

[from http://www.qrz.com bulletin board]

A newly formed Amateur Radio group called S.O.A.R (Space Observation with Amateur Radio) is aiming to get the regulations surrounding airborne experiments changed. Project S.O.A.R intends using meteorological balloons to carry Amateur Radio experiments to altitudes in excess of 90,000 feet. Planned payloads will include cross band repeaters, ATV, APRS to name just a few. Each flight will be tracked from the ground and then recovered upon landing.

Current UK licensing restrictions do not allow the use of Amateur Radio equipment in airborne vehicles. Project S.O.A.R is currently communicating with the CAA and OFCOM in an attempt to get the conditions relaxed. The group is actively seeking change that will allow experiments of this nature in balloons and other non-commercial craft.

If the conditions surrounding airborne vehicles are relaxed, it will enable the group to provide payload space to other groups for experiments. It is envisaged that strong links will be made with schools and educational establishments with the inclusion of "SOARSAT's". These are small ping-pong ball sized experiments similar to those already in use in the USA.

Currently, the UK is the only country in the world where experiments like this are prohibited. A project of this kind has great potential and will help the Amateur Radio community cement links with educators. It seems a real shame that old fashioned thinking is restricting such an exciting and important project.

The project leader, Peter Badham G0WXJ is keen to hear from any UK based groups or individuals who are interested in becoming part of the project. Contact details and further information is available on their website

www.eham.org.uk.

Or direct email to info@...

1608. Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-13 21:05:50 UTC
From: PAUL VERHAGE
Topic: 1608 Message: 1608

I just got back from a balloon flight. The Centennial Observatory was able to track the balloon and get video of the burst. At burst, the balloon left a swirling vortex of talcum powder. The image was recorded in near IR to reduce the sky's light.

Has anyone recorded video of a balloon burst from the ground like this?

I'll email a copy of the footage after it is digitized.

Paul

1609. RE: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-14 19:31:10 UTC
From: Rick von Glahn
Topic: 1608 Message: 1609

One of EOSS's members, Randy Reynard NQ0R, managed to do this:

http://www.eoss.org/ansrecap/ar_100/recap85.htm

He had to sit there with the telescope controller and jink it this way and that to maintain a lock on the balloon for fear of never being able to re-acquire it should it get too far away from the centerline of the observation angle.

The balloon is around 40 miles away when it bursts so the "seeing" conditions aren't that good looking through all those different parcels of air but, you can definitely see a tearing burst rather than the totex explosion and shredding burst evident in the last burst picture posted here. Hmmm, maybe that wasn't a totex at all. Well, Randy's video shows the balloon deform in a manner highly suggestive of a tear up one side and then the entire balloon turns into a streamer and plummets down the video frame out of sight.

We'll all be interested to see the talcum powder vortex.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of PAUL VERHAGE
> Sent: Saturday, August 13, 2005 2:06 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Balloon Burst in Telescope
>
> I just got back from a balloon flight. The Centennial
> Observatory was able to track the balloon and get video of
> the burst. At burst, the balloon left a swirling vortex of
> talcum powder. The image was recorded in near IR to reduce
> the sky's light.
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> Has anyone recorded video of a balloon burst from the ground
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> I'll email a copy of the footage after it is digitized.
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> Paul
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>
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> Date: 8/12/2005
>
>

--
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Checked by AVG Anti-Virus.
Version: 7.0.338 / Virus Database: 267.10.8/71 - Release Date: 8/12/2005

1610. Battery power

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-14 23:34:45 UTC
From: Perry Vale
Topic: 1610 Message: 1610

I peruse the net to find new and unusual electronics
things, and I've found something that may be of
interest to members of the GPSL.

3.7V 2000Mah LIPoly flat pack batteries rated to -25C.

http://www.sparkfun.com/shop/index.php?shop=1&cart=367451&cat=87&

There is a charger avilable for them. Sparkfun also
has GPS modules and related stuff, if the group
doesn't already know about them.

73 de N0MXJ

_____
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1611. RE: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-15 20:06:02 UTC
From: PAUL VERHAGE
Topic: 1608 Message: 1611

>>> rick@... 08/14/05 1:31 PM >>>
One of EOSS's members, Randy Reynard NQ0R, managed to do this:

http://www.eoss.org/ansrecap/ar_100/recap85.htm

Curses, foiled again!!

Here's the video that Rick has digitized.

http://www.mvastro.org/MVAS-05-01/

I selected the burst_300k.wmv file to view.

Paul

1612. Re: RE: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-15 20:29:04 UTC
From: n9xtn@cox.net
Topic: 1608 Message: 1612

Impressive video! Any details on the system used to capture this
(telescope, camera mount, camera, distance, etc.)?

73 de Mark N9XTN

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
Date: Monday, August 15, 2005 3:06 pm
Subject: RE: [GPSL] Balloon Burst in Telescope
>
> Here's the video that Rick has digitized.
>
> http://www.mvastro.org/MVAS-05-01/
>
> I selected the burst_300k.wmv file to view.
>
> Paul
>

1613. RE: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-16 11:46:00 UTC
From: Rick von Glahn
Topic: 1608 Message: 1613

Now that was some great video. Loved that vortex you described in your previous email. Never seen that before. My congratulations to the telescopic observing team. Takes real patience and attentiveness to record a flight through a telescope.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of PAUL VERHAGE
> Sent: Monday, August 15, 2005 1:06 PM
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] Balloon Burst in Telescope
>
> >>> rick@... 08/14/05 1:31 PM >>>
> One of EOSS's members, Randy Reynard NQ0R, managed to do this:
>
> http://www.eoss.org/ansrecap/ar_100/recap85.htm
>
> Curses, foiled again!!
>
> Here's the video that Rick has digitized.
>
> http://www.mvastro.org/MVAS-05-01/
>
> I selected the burst_300k.wmv file to view.
>
> Paul
>
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> --
> No virus found in this incoming message.
> Checked by AVG Anti-Virus.
> Version: 7.0.338 / Virus Database: 267.10.8/71 - Release
> Date: 8/12/2005
>
>

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.0.338 / Virus Database: 267.10.10/73 - Release Date: 8/15/2005

1614. Re: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-16 13:57:29 UTC
From: Harry M
Topic: 1608 Message: 1614

Vortex? I thought that was a worm hole! :)

Pretty interesting to see the chute inflate just
before it leaves the frame, botton left.

Great video!

73 Harry KC5TRB

1615. Re: RE: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-16 15:32:59 UTC
From: PAUL VERHAGE
Topic: 1608 Message: 1615

I know that it's a 24 inch telescope (the second largest in Idaho, I believe) with a CCD imager that is usually used to capture images of the night sky. The magnification was 96 power and the distance between 30 and 40 miles.

I'll see if Rick can give me more info.

Paul

>>> n9xtn@... 08/15/05 2:29 PM >>>
Impressive video! Any details on the system used to capture this
(telescope, camera mount, camera, distance, etc.)?

73 de Mark N9XTN

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@boiseschools.org>
Date: Monday, August 15, 2005 3:06 pm
Subject: RE: [GPSL] Balloon Burst in Telescope
>
> Here's the video that Rick has digitized.
>
> http://www.mvastro.org/MVAS-05-01/
>
> I selected the burst_300k.wmv file to view.
>
> Paul
>

Yahoo! Groups Links

1616. Re: [GPSL] Balloon Burst in Telescope

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-16 15:44:12 UTC
From: PAUL VERHAGE
Topic: 1608 Message: 1616

You know, I wondered what happened to the cockroach they sent up. Perhaps that was a worm hole!!

Paul

>>> hhm_74115@... 08/16/05 7:57 AM >>>

Vortex? I thought that was a worm hole! :)

Pretty interesting to see the chute inflate just
before it leaves the frame, botton left.

Great video!

73 Harry KC5TRB

Yahoo! Groups Links

1617. [Weather balloon] Error may have hidden warming

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-19 17:40:43 UTC
From: Ralph Wallio, W0RPK
Topic: 1617 Message: 1617

Error may have hidden warming

http://news.bbc.co.uk/1/hi/sci/tech/4152576.stm

A dispute over the data for global warming may be down to the way sensors were placed on weather balloons when readings were taken in the 1970s. For years, experts sought to determine why temperature readings taken from weather balloons did not show the same increases as readings on the ground.

The resulting mismatch has fuelled scepticism of global warming.

Researchers at Yale University in the US say exposed instruments on the balloons may be the problem.

Weather balloons are sent up around the world twice a day and older versions of the balloons used temperature probes that were exposed.

The result, say the researchers, was higher readings on balloons sent up in daytime because of the exposure to sunlight.

After correcting for the problem, the researchers estimate there has been a global temperature increase of 0.2C (0.4F) per decade for the last 30 years.

"Unfortunately, the warming is in an accelerating trend - the climate has not yet caught up with what we've already put into the atmosphere," said lead author Steven Sherwood of Yale.

"This has muddied the interpretation. There are steps we should take, but it seems that shaking people out of complacency will take a strong incentive."

The research was funded by the US National Oceanic and Atmospheric Administration (Noaa). The findings were published in an online issue of the journal Science.

1618. slightly OT: spline or other path smoothing software

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-23 03:15:31 UTC
From: Hank
Topic: 1618 Message: 1618

I'm looking for some software, preferably freeware, to overdraw a GPS generated track so that the slight bumpiness is removed from the line.

The software should be able to operate on TIFF, GIF, or even JPEG formatted map images.

It will employ the method of spines or Bezier curves and have a mouse interface.

I'm told that Adobe Illustrator is an example of one drawing program that has this capability. Another seems to be Corel Draw from a little web searching. These are both very expensive. Freeware, shareware, or bargain basement priced (< $20) software is what is sought.

Hank

1619. Re: [GPSL] slightly OT: spline or other path smoothing software

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-23 13:44:03 UTC
From: n9xtn@cox.net
Topic: 1618 Message: 1619

I take it this is to operate on a graphic when the original data is not available? In that case I don't have anything that will help. You'd probably need a high-end graphics program that would both identify and smooth a line in a TIFF, GIF, or especially a JPEG (the compression noise will make it tougher to identify a line).

I thought MS Excel would smooth 2D lines, but apparently not. I suppose you could smooth the lat and lon data independently, but that may not produce a smooth result.

Another approach may be to use PowerPoint to add a "curved" line over the track (Auto Shapes|Lines|Curve), adding and subtracting control points as necessary. You'll still have to erase the original track somehow, or copy the hand-drawn track over to a blank map of the same scale.

73 de Mark N9XTN

----- Original Message -----
From: "Hank" <n1ltv@...>
Date: Monday, August 22, 2005 10:15 pm
Subject: [GPSL] slightly OT: spline or other path smoothing software

> I'm looking for some software, preferably freeware, to
> overdraw a GPS generated track so that the slight bumpiness
> is removed from the line.
>
> The software should be able to operate on TIFF, GIF, or even
> JPEG formatted map images.
>
> It will employ the method of spines or Bezier curves and have
> a mouse interface.
>
> I'm told that Adobe Illustrator is an example of one drawing
> program that has this capability. Another seems to be Corel
> Draw from a little web searching. These are both very expensive.
> Freeware, shareware, or bargain basement priced (< $20) software
> is what is sought.
>
> Hank
>
>
>
>
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1620. OT: smooth curved line drawing programs / was spline .... smoothing software

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-23 14:14:10 UTC
From: Hank Riley
Topic: 1618 Message: 1620

> I take it this is to operate on a graphic when the original data is
> not available?

Mark,

It is available, but this is not a technical smoothing, it's an
esthetic smoothing. It's in the domain of the art of map making.
The track under consideration is the GPS log of a hiking path
(actually a small network of paths).

The message title has been changed to better convey the concept.

> Another approach may be to use PowerPoint to add a "curved" line over
> the track (Auto Shapes|Lines|Curve), adding and subtracting control
> points as necessary. You'll still have to erase the original track
> somehow, or copy the hand-drawn track over to a blank map of the same
> scale.

The former procedure is exactly what I want to do, and will be easy
to do since the new path line will be wider than the existing bumpy
line that has been drawn on the map image. The PC where this is being
done may already have Powerpoint installed, so that's a good tip and
worth trying.

Hank

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1621. ANSR-25 Flight Announcment

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-23 16:27:14 UTC
From: kd7lmo
Topic: 1621 Message: 1621

Arizona Near Space Research (ANSR) is pleased to announce the flight of ANSR-25. This high altitude balloon flight will take place on Saturday, September 3rd at 8:00 AM MST (1500 UTC). The launch site will be announced closer to the flight date and will be based on winds aloft.

The balloon will be a 1200-gram weather balloon, filled with helium. The expected burst altitude will be 90,000 feet or more. The flight is anticipated to last about 2.5 hours from launch to touchdown.

The flight will be an attempt to set three (3) records as part of the 2005 Onset ARHAB (Amateur Radio High Altitude Ballooning Record) competition. The portion we are attempting on this flight includes:

1. VHF/UHF Greatest Telemetry Distance (APRS on 445.950 MHz)
2. HF Greatest Telemetry Distance (PSK-31 on 14070.450 KHz)
3. Greatest 2-way QSO (Cross Band Voice Repeater)

We need your assistance (especially distance stations) in an attempt to set these records. VHF/UHF stations in Southern California, New Mexico, and Colorado Mountain Tops would work best for the 2-way QSO and telemetry attempts.

Stations 800-1200 miles down range from Arizona would have the best shot at hearing the PSK-31 beacon. See the following propagation maps for best listening locations.

http://www.kd7lmo.net/psk31_propagation.html

The following is the payload frequency plan:

Cross Band NB-FM Voice Repeater
Input: 145.560 MHz/162.2 Hz PL tone
Output: 445.525 MHz

APRS when repeater not in use on 445.950 MHz at 10, 20, 40, and 50 seconds GPS time via KD7LMO-11

Landing prediction after burst at 15 and 45 seconds GPS time via KD7LMO-0

Linked to IRLP reflector 9255 * See Notes below

Pico Beacon APRS
445.950 MHz packet at 00 and 30 seconds GPS time via KD7LMO-11

Our mobile cross band Digipeater will repeat the APRS data to the 144.390 MHz standard APRS frequency and thus will be I-GATED to the

Internet for out of area trackers. You track the flight using either of the following links:

http://www.findu.com/cgi-bin/find.cgi?kd7lmo-11
http://map.aprsworld.net/kd7lmo-11

* NOTE on IRLP reflector. When you connect, the node will report you are connected to the Western States Reflector 925 on channel 5. This channel has been reserved for high altitude balloon flights. Remember to key your transmitter for 2 seconds BEFORE you begin to talk. Also, when you join the node, please listen 10-15 seconds before transmitting. The cross band repeater is also used for our tracking and recovery team.

1622. New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-23 17:12:36 UTC
From: Roger Hammond
Topic: 1622 Message: 1622

I ran across an advertisement for these in the latest issue of Nuts &
Volts magazine.

http://www.rvhe.com/

Has anyone played with one of these?
Any comments?

For the price of a Basic Stamp it looks like you get more bang for the
buck.

Rog - KC0MWM

1623. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-23 19:31:09 UTC
From: n9xtn@cox.net
Topic: 1622 Message: 1623

Just some comments after a quick read of the manual, no hands-on
experience.....

Serial data handling is a byte at a time, in and out. Can't simply
monitor a serial line and stuff a 4-digit number into a word, etc.

No other protocols such as SPI/I2C to talk to external devices (yet).

Fairly limited command set in general.

It has promise, but I wouldn't switch from a BS2p at it is now.

- Mark

----- Original Message -----
From: "Roger Hammond" <rahammond@...>
Date: Tuesday, August 23, 2005 12:12 pm
Subject: [GPSL] New flight computer?

> I ran across an advertisement for these in the latest issue of
> Nuts &
> Volts magazine.
>
> http://www.rvhe.com/
>
> Has anyone played with one of these?
> Any comments?
>
> For the price of a Basic Stamp it looks like you get more bang for
> the
> buck.
>
> Rog - KC0MWM
>

1624. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 11:09:28 UTC
From: Troy Campbell
Topic: 1622 Message: 1624

That's my take on it too. The hardware is pretty capable but the language doesn't appear to have any string handling capability. I wish it did because the serial interrupt cabability and the realtime clock would be great. For me though, byte-banging strings is just too gruesome.

I'm considering using a combination of a BS2 and a Palm IIIxe with one of serveral BASIC interpreters. With 8 meg ram in the PALM you can store a lot of data, have some reasonably sized programs and leave the device control to the BS2. A Palm IIIxe is about $25-$40 on ebay. You can get refurbs with warranties for $69. A BS2 oem is $30 from Parallax . The BASIC interpreter for the Palm is anywhere from free to $200. So if its possible to put together a pretty flexible system for $55-$90 range. Of course you still would have to add the ADC. (MELD has one that will talk directly to the Palm)

Another alternative we're looking at is a Linux based computer. I'm looking at GumStix(tm) (www.gumstix.com and www.gumstix.org) which is a complete Linux computer the size of a memory stick. Another member is looking at an ARM based kit for about $125.

73 de Troy KC0MIC

--- n9xtn@... wrote:

> Just some comments after a quick read of the manual,
> no hands-on
> experience.....
>
> Serial data handling is a byte at a time, in and
> out. Can't simply
> monitor a serial line and stuff a 4-digit number
> into a word, etc.
>
> No other protocols such as SPI/I2C to talk to
> external devices (yet).
>
> Fairly limited command set in general.
>
> It has promise, but I wouldn't switch from a BS2p at
> it is now.

>
> - Mark
>
> ----- Original Message -----
> From: "Roger Hammond" <rahammond@...>
> Date: Tuesday, August 23, 2005 12:12 pm
> Subject: [GPSL] New flight computer?
>
> > I ran across an advertisement for these in the
> latest issue of
> > Nuts &
> > Volts magazine.
> >
> > http://www.rvhe.com/
> >
> > Has anyone played with one of these?
> > Any comments?
> >
> > For the price of a Basic Stamp it looks like you
> get more bang for
> > the
> > buck.
> >
> > Rog - KC0MWM
> >
>

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1625. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 13:28:38 UTC
From: Troy Campbell
Topic: 1622 Message: 1625

Here's the ARM processor I referred to earlier

http://www.embeddedarm.com/epc/ts7200-spec-h.html

and the expansion boards

http://www.embeddedarm.com/epc/prod_SBC.htm

73 de Troy KC0MIC
--- Troy Campbell <kc0mic@...> wrote:

> That's my take on it too. The hardware is pretty
> capable but the language doesn't appear to have any
> string handling capability. I wish it did because
> the
> serial interrupt cabability and the realtime clock
> would be great. For me though, byte-banging strings
> is just too gruesome.
>
> I'm considering using a combination of a BS2 and a
> Palm IIIxe with one of serveral BASIC interpreters.
> With 8 meg ram in the PALM you can store a lot of
> data, have some reasonably sized programs and leave
> the device control to the BS2. A Palm IIIxe is
> about
> $25-$40 on ebay. You can get refurbs with
> warranties
> for $69. A BS2 oem is $30 from Parallax . The
> BASIC interpreter for the Palm is anywhere from free
> to $200. So if its possible to put together a pretty
> flexible system for $55-$90 range. Of course you
> still would have to add the ADC. (MELD has one that
> will talk directly to the Palm)
>
> Another alternative we're looking at is a Linux
> based
> computer. I'm looking at GumStix(tm)
> (www.gumstix.com
> and www.gumstix.org) which is a complete Linux
> computer the size of a memory stick. Another member
> is looking at an ARM based kit for about $125.
>
> 73 de Troy KC0MIC
>
>
> --- n9xtn@... wrote:

> > > Just some comments after a quick read of the
> > manual,
> > > no hands-on
> > > experience.....
> > >
> > > Serial data handling is a byte at a time, in and
> > > out. Can't simply
> > > monitor a serial line and stuff a 4-digit number
> > > into a word, etc.
> > >
> > > No other protocols such as SPI/I2C to talk to
> > > external devices (yet).
> > >
> > > Fairly limited command set in general.
> > >
> > > It has promise, but I wouldn't switch from a BS2p
> > at
> > > it is now.
> > >
> > > - Mark
> > >
> > > ----- Original Message -----
> > > From: "Roger Hammond" <rahammond@...>
> > > Date: Tuesday, August 23, 2005 12:12 pm
> > > Subject: [GPSL] New flight computer?
> > >
> > > > I ran across an advertisement for these in the
> > > latest issue of
> > > > Nuts &
> > > > Volts magazine.
> > > >
> > > > http://www.rvhe.com/
> > > >
> > > > Has anyone played with one of these?
> > > > Any comments?
> > > >
> > > > For the price of a Basic Stamp it looks like you
> > > get more bang for
> > > > the
> > > > buck.
> > > >
> > > > Rog - KC0MWM
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>
>

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1626. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 18:39:45 UTC
From: Hank Riley
Topic: 1622 Message: 1626

Troy,

Is this the MELD headquarters?

http://www.bpesolutions.com/gadgets.ws/gproject1.html

> I'm considering using a combination of a BS2 and a
> Palm IIIxe with one of serveral BASIC interpreters.
> With 8 meg ram in the PALM you can store a lot of
> data, have some reasonably sized programs and leave
> the device control to the BS2.

I know this is a question difficult to impossible to answer totally completely, but could you give a more embellished idea of what kinds of things you'd be doing in BASIC on the PALM?

You're going to throw in parameters to the PALM through a serial port connection to the BS2, right? How easy or ugly does that get in terms of getting the stuff into the PALM and its BASIC?

> Another alternative we're looking at is a Linux based
> computer. I'm looking at GumStix(tm) (www.gumstix.com
> and www.gumstix.org) which is a complete Linux
> computer the size of a memory stick.

I could look this up, but for expedience what is the current draw for the Gum Stick and the previously mentioned Internet ready computer on a board? Some of these high bells and whistles content machines can be awful power hogs.

Hank

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http://promotions.yahoo.com/new_mail

1627. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 20:08:28 UTC
From: Troy Campbell
Topic: 1622 Message: 1627

Hank,

You're right in that pushing everything into the palm through one serial port would be a pain. RS-232 does not lend itself to bus type operations. (One of the reasons I'm looking at the linux stuff is they have two ports.)

A little background: We've been using the Palm as a 'data logger'. We have a KPC3+ with a Garmin GPS35pc hooked to the 'GPS' port. We left the "MON" command on and connected the Palm to the DB-25 on the KPC. So we get everything it sent (including other balloons and the ground teams). We didn't have any software, we just used a free terminal emulator (AccessIt) and turned on the 'capture log'. When we recover the payload, we sync the Palm to a laptop and I wrote a perl script that picks the TNC/APRS entries out of the capture log DB. (It's not pretty but it cost zero dollars.)

This seems in-elegant so I thought "I'll write a data logger". A friend was using the MELD stuff (and flying it in our space-frame) so I checked it out. Turns out that the initial MELD software was written in BASIC. I googled around for 'BASIC on PALM' and came up with 3-4 interpreters. Probably the best compromise is HotPaw for about $18 (where do they come up with these names?) [Just FYI, there's an interpreter called 'smallBasic' that's free and 'cross-platform'. It runs on Macs, Linux and Palm. It has a couple of file handling limitations I don't like though, mostly due to the lack of file structure on the Palm]

Now I'm thinking, "I can do a lot more that just record data with this thing now!" But the only IO the Palm has (besides the infrared port) is one serial port. Bummer.

So now I remember a block diagram that Paul Verhage did a long time ago that showed a BS2 gating the serial output of the GPS between itself an the TNC and had an "Oh Yeah" moment. I'll use the BS2 to collect and control devices and to either 'feedthru' serial data to the Palm or to switch input lines to Palm when

needed (or commanded by the palm).

Now the Palm can be freed up for scheduling,
recording, and general high level stuff (an
abbreviated 'satellite O/S') and let the BS2 do the
lower 'driver' level stuff.

It's ugly okay, but it's pretty much 'how things work'
in 'real computers' and once the initial software is
written, you can change the whole complexion of a
mission just with software changes.

Sorry to be so long winded.

On the power consumption for the linux stuff, both are
using ARM processors that are 3.3v . We've just
started seriously thinking about them so I don't have
current consumption on the tip of my tongue
(er-fingers), but the gumstix is supposed to work with
4 double AAs for a long time. I just don't know what
they mean by "long".

73 de Troy KC0MIC

--- Hank Riley <n1ltv@...> wrote:

> Troy,
>
> Is this the MELD headquarters?
>
>
http://www.bpesolutions.com/gadgets.ws/gproject1.html
>
> > I'm considering using a combination of a BS2 and a
> > Palm IIIxe with one of serveral BASIC
> interpreters.
> > With 8 meg ram in the PALM you can store a lot of
> > data, have some reasonably sized programs and
> leave
> > the device control to the BS2.
>
> I know this is a question difficult to impossible to
> answer
> totally completely, but could you give a more
> embellished
> idea of what kinds of things you'd be doing in BASIC
> on the
> PALM?
>
> You're going to throw in parameters to the PALM
> through a
> serial port connection to the BS2, right? How easy

> or ugly
> does that get in terms of getting the stuff into the
> PALM and
> its BASIC?
>
> > Another alternative we're looking at is a Linux
> based
> > computer. I'm looking at GumStix(tm)
> (www.gumstix.com
> > and www.gumstix.org) which is a complete Linux
> > computer the size of a memory stick.
>
> I could look this up, but for expedience what is the
> current
> draw for the Gum Stick and the previously mentioned
> Internet
> ready computer on a board? Some of these high bells
> and
> whistles content machines can be awful power hogs.
>
> Hank
>
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> _____
> Do you Yahoo!?
> Read only the mail you want - Yahoo! Mail SpamGuard.
>
> http://promotions.yahoo.com/new_mail
>

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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1628. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 20:14:41 UTC
From: Troy Campbell
Topic: 1622 Message: 1628

Oops, Missed a question.

I think this is 'MELD HQ'

http://my.execpc.com/~fdeck/meld/

TMC

--- Hank Riley <n1ltv@...> wrote:

> Troy,
>
> Is this the MELD headquarters?
>
>
http://www.bpesolutions.com/gadgets.ws/gproject1.html
>
> > I'm considering using a combination of a BS2 and a
> > Palm IIIxe with one of serveral BASIC
> interpreters.
> > With 8 meg ram in the PALM you can store a lot of
> > data, have some reasonably sized programs and
> leave
> > the device control to the BS2.
>
> I know this is a question difficult to impossible to
> answer
> totally completely, but could you give a more
> embellished
> idea of what kinds of things you'd be doing in BASIC
> on the
> PALM?
>
> You're going to throw in parameters to the PALM
> through a
> serial port connection to the BS2, right? How easy
> or ugly
> does that get in terms of getting the stuff into the
> PALM and
> its BASIC?
>
> > Another alternative we're looking at is a Linux
> based
> > computer. I'm looking at GumStix(tm)
> (www.gumstix.com
> > and www.gumstix.org) which is a complete Linux

> > computer the size of a memory stick.
>
> I could look this up, but for expedience what is the
> current
> draw for the Gum Stick and the previously mentioned
> Internet
> ready computer on a board? Some of these high bells
> and
> whistles content machines can be awful power hogs.
>
> Hank
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> _____
> Do you Yahoo!?
> Read only the mail you want - Yahoo! Mail SpamGuard.
>
> http://promotions.yahoo.com/new_mail
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1629. Re: [GPSL] New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 20:24:22 UTC
From: Troy Campbell
Topic: 1622 Message: 1629

I guess I didn't really answer another one.

"What would I do in the Palm?"

Basically (ha!) I'd make decisions that would require
way more logic than there is program-space in a BS/2.
It would get a lot easier to take actions based on
altitude, commands from the ground, internal timers,
external interrupts, etc. I'd think about scripting
flight phases, small behavior objects. You can change
the behavior and outcome of the mission or next phase
of the mission depending on realtime data. The BS/2
doesn't have the horsepower for that. [Though I've
seen extremely clever solutions with it.]

Okay, now I'm really done.

TMC

--- Troy Campbell <kc0mic@...> wrote:

> Oops, Missed a question.
>
> I think this is 'MELD HQ'
>
> http://my.execpc.com/~fdeck/meld/
>
> TMC
>
> --- Hank Riley <n1ltv@...> wrote:
>
> > Troy,
> >
> > Is this the MELD headquarters?
> >
> >
>
http://www.bpesolutions.com/gadgets.ws/gproject1.html
> >
> > > I'm considering using a combination of a BS2 and
> a
> > > Palm IIIxe with one of serveral BASIC
> > interpreters.
> > > With 8 meg ram in the PALM you can store a lot
> of
> > > data, have some reasonably sized programs and

> > leave
> > > the device control to the BS2.
> >
> > I know this is a question difficult to impossible
> to
> > answer
> > totally completely, but could you give a more
> > embellished
> > idea of what kinds of things you'd be doing in
> BASIC
> > on the
> > PALM?
> >
> > You're going to throw in parameters to the PALM
> > through a
> > serial port connection to the BS2, right? How
> easy
> > or ugly
> > does that get in terms of getting the stuff into
> the
> > PALM and
> > its BASIC?
> >
> > > Another alternative we're looking at is a Linux
> > based
> > > computer. I'm looking at GumStix(tm)
> > (www.gumstix.com
> > > and www.gumstix.org) which is a complete Linux
> > > computer the size of a memory stick.
> >
> > I could look this up, but for expedience what is
> the
> > current
> > draw for the Gum Stick and the previously
> mentioned
> > Internet
> > ready computer on a board? Some of these high
> bells
> > and
> > whistles content machines can be awful power hogs.
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> > Hank
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> > Do you Yahoo!?
> > Read only the mail you want - Yahoo! Mail

> SpamGuard.
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> > http://promotions.yahoo.com/new_mail
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> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com
>

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Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs
~~~~~~

1630. Re: New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 22:11:17 UTC
From: Hank
Topic: 1622 Message: 1630

> > Another alternative we're looking at is a Linux based
> > computer. I'm looking at GumStix(tm) (www.gumstix.com
> > and www.gumstix.org) which is a complete Linux
> > computer the size of a memory stick.
>
> I could look this up, but for expedience what is the current
> draw for the Gum Stick and the previously mentioned Internet
> ready computer on a board? Some of these high bells and
> whistles content machines can be awful power hogs.

power requirements

ARM board at
"full speed" ---- 5V DC @ 375mA (first class power hog;
5 oink rating)

Gum Stick "Way Small" ---- unknown after minutes of searching
and consulting the Tiki(wiki);
website in running for most
infuriating "technical" website
of 2005 (suspected power hog)
Internet ready
computer board ---- haven't checked yet

N1LTV definition of power hog for computers this capable:
over 100 milliamps for sure; 50 - 100 mills is borderline hog.

Under 50 is nice; under 20 is first class.

The problem is these designers (seemingly) don't have power
consumption even on their radars.

1631. GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-24 23:45:19 UTC
From: Mark Conner
Topic: 1631 Message: 1631
Attachments: 2 described; binary payloads are missing from this source WARC

Attached is a GIF and a SA9 file showing the locations of all the landing sites for GPSL 2005. The MECSAT location is marked as approximate, but should be accurate to within a few hundred feet - I used the last posit available from aprsworld.net which was at about 100-200 ft AGL.

For reference, the distance between Hwy 48 and US 71 is 7.8 miles.

Files also available on the yahoogroups site.

Still not too late to contribute photos or video to the GPSL 2005 compilation! I'm still awaiting a video from EOSS.

73 de Mark N9XTN

1632. Re: New flight computer?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 00:16:05 UTC
From: Hank
Topic: 1622 Message: 1632

Troy,

Thanks for the excellent answers and thoughts. A lot
of this is valuable to many of us on the list both in
and outside of our ballooning activities.

Hank

1633. Re: [GPSL] GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 01:37:51 UTC
From: Mike Manes
Topic: 1631 Message: 1633

Hi Mark,

Hey, thanks for that summary map! I guess EOSS won the non-existent
range contest :=}.

And thanks for the reminder to get that CD off to you. I hope you're
not too depressed at how noisy the sig was -- Chris KB0YRZ had
a casulty with his elevation rotator just prior to GPSL, so was unable
to peak up the sigs. ANd there wasn't much from the WB8ELK ATV after
launch - maybe some P2-3 stuff.

I'll get that off to you this week - for sure!

73 de Mike W5VSI

> Mark Conner wrote:
>
> Attached is a GIF and a SA9 file showing the locations of all the
> landing sites for GPSL 2005. The MECSAT location is marked as
> approximate, but should be accurate to within a few hundred feet ? I
> used the last posit available from aprsworld.net which was at about
> 100-200 ft AGL.
>
>
>
> For reference, the distance between Hwy 48 and US 71 is 7.8 miles.
>
>
>
> Files also available on the yahoogroups site.
>
>
>
> Still not too late to contribute photos or video to the GPSL 2005
> compilation! I?m still awaiting a video from EOSS.
>
>
>
> 73 de Mark N9XTN
>
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> --
> YAHOO! GROUPS LINKS
>
> + Visit your group "GPSL" on the web.
>
> + To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> + Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
> --
>
> Name: GPSL 2005 landing sites.SA9
> GPSL 2005 landing sites.SA9 Type: unspecified type
> (application/octet-stream)
> Encoding: base64
>
> Name: GPSL2005-summary.gif
> GPSL2005-summary.gif Type: GIF Image (image/gif)
> Encoding: base64

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1634. Re: [GPSL] GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 02:50:41 UTC
From: Troy Campbell
Topic: 1631 Message: 1634

Mark,

I thought I'd posted the track file but must have
missed it. Anyway CAPNSPACE (KC0MIC) landing was at
41 09.4007,N by 95 01.9547 W
Burst was 95,082 ft

73 de Troy KC0MIC

--- Mark Conner <n9xtn@...> wrote:

> Attached is a GIF and a SA9 file showing the
> locations of all the landing
> sites for GPSL 2005. The MECSAT location is marked
> as approximate, but
> should be accurate to within a few hundred feet - I
> used the last posit
> available from aprsworld.net which was at about
> 100-200 ft AGL.
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>
> For reference, the distance between Hwy 48 and US 71
> is 7.8 miles.
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>
> Files also available on the yahoogroups site.
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>
> Still not too late to contribute photos or video to
> the GPSL 2005
> compilation! I'm still awaiting a video from EOSS.
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> 73 de Mark N9XTN
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Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1635. Re: [GPSL] GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 13:18:58 UTC
From: n9xtn@cox.net
Topic: 1631 Message: 1635

Troy,

You did post it, and I found the e-mail. When I counted 10 landing sites and thought I was done with the map, I forgot Bill WB8ELK had 2. I'll add CAPNSPACE and resend/re-upload it.

- Mark

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Wednesday, August 24, 2005 9:50 pm
Subject: Re: [GPSL] GPSL 2005 landing site map

> Mark,
>
> I thought I'd posted the track file but must have
> missed it. Anyway CAPNSPACE (KC0MIC) landing was at
> 41 09.4007,N by 95 01.9547 W
> Burst was 95,082 ft
>
> 73 de Troy KC0MIC
>
>
>
> --- Mark Conner <n9xtn@...> wrote:
>
> > Attached is a GIF and a SA9 file showing the
> > locations of all the landing
> > sites for GPSL 2005. The MECSAT location is marked
> > as approximate, but
> > should be accurate to within a few hundred feet - I
> > used the last posit
> > available from aprsworld.net which was at about
> > 100-200 ft AGL.
> >
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> >
> > For reference, the distance between Hwy 48 and US 71
> > is 7.8 miles.
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> > Files also available on the yahoogroups site.
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> >

> > Still not too late to contribute photos or video to
> > the GPSL 2005
> > compilation! I'm still awaiting a video from EOSS.
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> > 73 de Mark N9XTN
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> Start your day with Yahoo! - make it your home page
> http://www.yahoo.com/r/hs
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> ---------- Yahoo! Groups Sponsor ----------
> ~-->
> Get fast access to your favorite Yahoo! Groups. Make Yahoo! your
> home page
> http://us.click.yahoo.com/dpRU5A/wUILAA/yQLSAA/ELTolB/TM
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> Yahoo! Groups Links
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1636. Re: [GPSL] GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 13:24:36 UTC
From: PAUL VERHAGE
Topic: 1631 Message: 1636

Ummm, why is it that Biil Brown did only one launch but got two landing sites???
;)

Paul

>>> n9xtn@... 08/25/05 7:18 AM >>>
Troy,

You did post it, and I found the e-mail. When I counted 10 landing
sites and thought I was done with the map, I forgot Bill WB8ELK had
2. I'll add CAPNSPACE and resend/re-upload it.

- Mark

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Wednesday, August 24, 2005 9:50 pm
Subject: Re: [GPSL] GPSL 2005 landing site map

> Mark,
>
> I thought I'd posted the track file but must have
> missed it. Anyway CAPNSPACE (KC0MIC) landing was at
> 41 09.4007,N by 95 01.9547 W
> Burst was 95,082 ft
>
> 73 de Troy KC0MIC
>
>
>
> --- Mark Conner <n9xtn@...> wrote:
>
> > Attached is a GIF and a SA9 file showing the
> > locations of all the landing
> > sites for GPSL 2005. The MECSAT location is marked
> > as approximate, but
> > should be accurate to within a few hundred feet - I
> > used the last posit
> > available from aprsworld.net which was at about
> > 100-200 ft AGL.
> >
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> >
> > For reference, the distance between Hwy 48 and US 71
> > is 7.8 miles.
> >

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> >
> > Files also available on the yahoogroups site.
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> >
> > Still not too late to contribute photos or video to
> > the GPSL 2005
> > compilation! I'm still awaiting a video from EOSS.
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> > 73 de Mark N9XTN
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> Start your day with Yahoo! - make it your home page
> http://www.yahoo.com/r/hs
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> ------------------------ Yahoo! Groups Sponsor ---------------------
> ~-->
> Get fast access to your favorite Yahoo! Groups. Make Yahoo! your
> home page
> http://us.click.yahoo.com/dpRU5A/wUILAA/yQLSAA/ELTolB/TM
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Yahoo! Groups Links

1637. Fw: NASA ANNOUNCES NAME CHANGE FOR BALLOON FACILITY

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 14:13:15 UTC
From: Ralph Wallio, W0RPK
Topic: 1637 Message: 1637

----- Original Message -----
From: <NASANews@...>
To: <undisclosed-recipients:>
Sent: Thursday, August 25, 2005 8:30 AM
Subject: NASA ANNOUNCES NAME CHANGE FOR BALLOON FACILITY

Dolores Beasley/Erica Hupp
Headquarters, Washington August 25, 2005
(Phone: 202/358-1753/1237)

Betty Flowers
Wallops Flight Facility, Va.
(Phone: 757/824-1584)

RELEASE: 05-234

NASA ANNOUNCES NAME CHANGE FOR BALLOON FACILITY

NASA has officially changed the name of the National Scientific Balloon Facility (NSBF) in Palestine, Texas to the Columbia Scientific Balloon Facility.

Rep. Jeb Hensarling, (R-Texas) proposed the name change to the House Committee on Science on April 26, 2005, as a reminder of what the crew of the Space Shuttle Columbia stood for: honor, bravery and the quest for knowledge for generations to come.

"This tribute to the crew of the Space Shuttle Columbia is in recognition of the dedication and sacrifice made by those brave individuals willing to risk their lives to further humanity's knowledge about space exploration," said Vernon Jones, NASA's senior scientist for suborbital research at NASA's Science Mission Directorate, which manages the facility.

On February 1, 2003, the Columbia and crew were lost over the western United States during re-entry into Earth's atmosphere. The 28th and final flight of Columbia (STS-107) was a 16-day mission dedicated to research in physical, life and space sciences.

The Balloon Facility was established in 1961 by the National Science Foundation in Boulder, Colo. The facility was moved to Palestine in 1963 and was formally named the National Scientific Balloon Facility in January 1973.

In 1982, sponsorship of the NSBF was transferred to NASA. In October 1987, NASA awarded a contract to New Mexico State University's Physical Science Laboratory, Las Cruces, N.M., to provide engineering and launch support for the agency's Scientific Balloon Program and for oversight of NSBF operations.

The NSBF provides complete balloon operation services and engineering support to the scientific community in the United States and several foreign countries. Operation services include inflating and launching the balloon, tracking and recovery of the payload, tele-command and data retrieval. Engineering support includes design of balloon systems, research in balloon materials, and electronics' design.

The facility has launched more than 1,700 balloons for 35 universities, 23 research agencies, and 33 foreign groups. Payloads up to 5,000 pounds are routinely flown on balloons of up to 40 million cubic feet in volume at altitudes exceeding 70 miles. Flight time varies from several hours to several weeks. Seventy-four on-site contract employees work at the facility and support NASA's international balloon operations.

NASA's Goddard Space Flight Center's Wallops Flight Facility, Wallops Island, Va., manages the scientific balloon program for the agency's Science Mission Directorate.

For information about NASA's scientific balloon program on the Web, visit:

http://www.wff.nasa.gov/~code820/

For information about the Columbia Scientific Balloon Facility on the Web, visit:

http://www.nsbf.nasa.gov/

For information about NASA and agency programs on the Web, visit:

http://www.nasa.gov/home/index.html

-end-

* * *

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@....
In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@..., leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

1638. Re: [GPSL] GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 14:16:18 UTC
From: Mark Garrett
Topic: 1631 Message: 1638
Attachments: 1 described; binary payloads are missing from this source WARC

Bill was going to launch two balloons but since things were running extremely late for us getting one balloon going, Bill used some Wal-Mart twine to attach the payload from the second balloon to the first. The twine that was attached at the CW beacon's dowel rod to form the antenna had put excess stress of the twine at the tip of the rod, separated the beacon and a GPS package sometime after burst. The now two payloads landed 6 miles apart with the GPS and CW beacon not having benefit of a parachute but landed with no damage. We could only speculate that somehow the two packages interacted in such a way that it spun down, slowing the decent. We knew something was up when I was monitoring the CW beacon and was getting a heading of a package on the ground and Bill got his batteries changed on his ATV receiver in time and noted that the ATV package was still up in the air with a completely different GPS heading. We noted where I heard the CW beacon and chased after the ATV package recovering it first and then going back and recovering the second, separated payload.

Mark Garrett, KA9SZX

At 08:24 AM 8/25/2005, you wrote:

>Ummm, why is it that Biil Brown did only one launch but got two landing
>sites???
>;)
>
>Paul
>
> >>> n9xtn@... 08/25/05 7:18 AM >>>
>Troy,
>
>You did post it, and I found the e-mail. When I counted 10 landing
>sites and thought I was done with the map, I forgot Bill WB8ELK had
>2. I'll add CAPNSPACE and resend/re-upload it.
>
>- Mark
>
>----- Original Message -----
>From: Troy Campbell <kc0mic@...>
>Date: Wednesday, August 24, 2005 9:50 pm
>Subject: Re: [GPSL] GPSL 2005 landing site map
>
> > Mark,
> >
> > I thought I'd posted the track file but must have
> > missed it. Anyway CAPNSPACE (KC0MIC) landing was at
> > 41 09.4007,N by 95 01.9547 W

> > Burst was 95,082 ft
> >
> > 73 de Troy KC0MIC
> >
> >
> >
> > --- Mark Conner <n9xtn@...> wrote:
> >
> > > Attached is a GIF and a SA9 file showing the
> > > locations of all the landing
> > > sites for GPSL 2005. The MECSAT location is marked
> > > as approximate, but
> > > should be accurate to within a few hundred feet - I
> > > used the last posit
> > > available from aprsworld.net which was at about
> > > 100-200 ft AGL.
> > >
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> > >
> > > For reference, the distance between Hwy 48 and US 71
> > > is 7.8 miles.
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> > > Files also available on the yahoogroups site.
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> > >
> > > Still not too late to contribute photos or video to
> > > the GPSL 2005
> > > compilation! I'm still awaiting a video from EOSS.
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> > > 73 de Mark N9XTN
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> > Start your day with Yahoo! - make it your home page
> > <http://www.yahoo.com/r/hs>http://www.yahoo.com/r/hs

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> > ---------- Yahoo! Groups Sponsor ----------
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> > Get fast access to your favorite Yahoo! Groups. Make Yahoo! your
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> <http://us.click.yahoo.com/dpRU5A/wUILAA/yQLSAA/ELTolB/TM>http://us.click.yahoo.com/dpRU
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>Yahoo! Groups Links
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>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.

>
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>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.0.344 / Virus Database: 267.10.15/81 - Release Date: 8/24/2005

1639. Re: [GPSL] GPSL 2005 landing site map

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 14:29:18 UTC
From: David Hoffman
Topic: 1631 Message: 1639

So you didn't read Bill Brown's post.? His APRS payload separated from the main payload right around burst.? The APRS payload had a free fall into the corn field (where else of course).
David Hoffman - KE4FGW

>
>
>
>
> Ummm, why is it that Biil Brown did only one launch but got two landing
> sites???
> ;)
>
> Paul
>
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>
>

1640. small computer power requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 15:03:39 UTC
From: Hank
Topic: 1622 Message: 1640

ARM board at
"full speed" ---- 5V DC @ 375mA

RVHE Internet ready
computer board
(http://www.rvhe.com/) ---- 5V @ 500 milliamps
(info provided by a designer
of the RVHE)

Still need to get the spec for Gum Stick "Way Small"
since this is another company that doesn't seem to publish
the characteristic.

I'm going to speak further to RVHE about the current drain
issue since it's possible to get the drain down to a few
milliamps with a slower clock, as is characteristic of all
CMOS logic.

If these people know there's an interest and a consumer
demand for a simple variation of the product, it might
happen. Lacking the feedback, it probably won't happen.

Just the fact that these current drains for two of the three
products are not published says a lot. I have several apps
that need to run on 100% solar power (or *small* battery power
for at least 6 months), so these products cut themselves out
of the running right off the bat.

Hank

1641. Revised GPSL 2005 landing site graphics

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-25 18:24:15 UTC
From: n9xtn@cox.net
Topic: 1641 Message: 1641
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1642. Fwd: [HABITAT_SkyLab] Launch Update 8/28/05

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-28 01:11:28 UTC
From: Don KA0JLF
Topic: 1642 Message: 1642

FYI

--- habitat_skylab <habitat_skylab@...> wrote:

> Date: Sun, 28 Aug 2005 01:01:08 +0000
> From: habitat_skylab <habitat_skylab@...>
> Subject: [HABITAT_SkyLab] Launch Update 8/28/05
> To: HABITAT_SkyLab@yahoogroups.com
>
> Cris and I plan to be at the launchsite about 8 a.m.
>
>
> Arriving around 8:30 a.m. would be ok. I'm figuring
> we will launch
> around 9. It won't be as good as a 10 a.m. launch
> but better than an
> 8 a.m. ;-)
>
> I am putting the final packaging together for my
> capsule. I should
> have the DVR, ATV and a simplex repeater on 2M. I'll
> update the
> launchsite web page to reflect this.
>
http://www.habitatskylab.org/launchsite/launchsite.html
> - UPDATED
>
> Here is what is planned:
> APRS on 144.34 gated to internet (possibly gated to
> 144.39)
> ATV on 439.25 MHz (DVR output)
> 2M simplex repeater 145.555 MHz
> RDF beacon on 216.045 MHz
>
> See/talk to you in the morning. Please email me
> ASAP, if there is
> questions or updates needed.
>
> Thanks,
> Don
>
>
>
>
>

>
>
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> HABITAT_SkyLab-unsubscribe@yahoogroups.com
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>

_____
Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1643. Flight success again!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-28 23:21:18 UTC
From: Don KA0JLF
Topic: 1643 Message: 1643

I saw 86,162 on findu. That is higher than two weeks ago, same size balloon, full tank, more payload weight, go figure.

K0NMS-11>APT311,SKYLAB,WIDE2-2,qAR,KA2FNK:/162346h3849.84N/09446.72WO281/014/A=086162

But it was fun. I got to see it land, but couldn't get the camera turned on in time to take a picture, what a sight. Of course the DV-5900 ran out of memory. Just before the landing I think (at least 5 minutes too much messing around before launch - 20 minutes of on ground prep recorded). Recorded 2:26:46 time, 1023MB (a full GB). This time I put a receiver near the DVR mic, and recorded the APRS posts on the DVR audio. Now to see if it decodes. I meant to do the same with the Simplex Repeater audio but forgot to put the second receiver in. Oh well there's always next time.

Hope to post some photos to the web soon. We watched much of the video at lunch.

73 thanks to ALL!! Enjoyed hearing the simplex repeater being used. First time in a long time to talk to some friends on the radio (no ones fault but mine).

Don KA0JLF

Start your day with Yahoo! - make it your home page
http://www.yahoo.com/r/hs

1644. 1. Flight success again!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-29 19:59:00 UTC
From: K. Mark Caviezel
Topic: 1644 Message: 1644

Don:
Congrats on your flight, and viewing the landing.
That's always a kick.
As many latex balloon flights as I pay attention to, I figure a possible +/- 10,000 feet tolerance for actual burst altitude versus predicted. That's a completely unscientific analysis but does well to account for the many variables of
actual fill volume versus planned,
manufacturing variability, and
effect of pre launch stresses for gusty lousy conditions or complete dead calm.

So, more payload achieving a higher burst between two flights doesn't surprise me if the difference isn't too huge. I think, but I am not certain, that lightly filled balloons (~5% free lift, slow ascent rate) have actually done worse than normal balloons (10-15% free lift, ~1000 foot per minute ascent rate), a result incongruous with burst diameter, but attributed to UV degradation or load over time.

73s

- KMC ng0x

1645. UV degradation of latex (?)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-29 22:19:54 UTC
From: n9xtn@cox.net
Topic: 1645 Message: 1645

This has been discussed as a possible failure mode for latex balloons. I'm not sure it's anything but speculation, especially at the time scales we're dealing with (1-8 hours).

It would be interesting to blow up a set of inexpensive latex balloons (PIBALs?) to near the max diameter, leave half outside exposed to full sun and the other half inside, and see who pops first. This would require a quiet and sunny day so wind stresses don't compromise the results.

I don't think we can cheaply prove that UV degradation causes balloon failures at altitude, but this simple experiment might provide a little weight one way or the other.

73 de Mark N9XTN

1646. Re: [GPSL] UV degradation of latex (?)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-30 00:13:20 UTC
From: Mike Manes
Topic: 1645 Message: 1646

I think that UV degradation of latex (thru lysing of elastomer bonds) is already a proven phenomenon. This is why latex balloons are shipped in opaque containers. I've seen the effects of exposure on balloons stored in normal fluorescent room lighting with the container "cracked"; almost like photographic film! The exposed latex becomes markedly darker. Does it also become weaker? Dunno. But it probably loses elasticity.

Whether this process occurs fast enough to affect burst altitude as a function of ascent time is the root question here. And yes, it remains a hypothesis, right alongside the one that suggests micro-meteor impact as a causative factor.

Note that solar UV intensity is much greater in the stratosphere than on the surface - heck, it's even greater on the deck in Colorado than down in the flatlands! And simple outdoor exposure invites not only the uncontrolled variable of wind, but also of the diurnal solar cycle and intermittent cloud cover.

So perhaps a more controlled, and possibly faster, experiment would utilize "black lights" or a tanning booth as the UV source, with measured intensity equivlalent to earth normal at, say, 100 mbar (50K'). This would still require quite a few samples to deal with manufacturing variations.

Despite the dearth of published studies in this field, it might be worth a literature search to see if this wheel's already been invented. Anyone have access to a good academic database that might brush on this field?

73 de Mike W5VSI

n9xtn@... wrote:
>
> This has been discussed as a possible failure mode for latex
> balloons. I'm not sure it's anything but speculation, especially at
> the time scales we're dealing with (1-8 hours).
>
> It would be interesting to blow up a set of inexpensive latex balloons
> (PIBALs?) to near the max diameter, leave half outside exposed to full
> sun and the other half inside, and see who pops first. This would
> require a quiet and sunny day so wind stresses don't compromise the
> results.
>
> I don't think we can cheaply prove that UV degradation causes balloon
> failures at altitude, but this simple experiment might provide a

> little weight one way or the other.
>
> 73 de Mark N9XTN
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1647. > 2. UV degradation of latex (?)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-30 18:20:06 UTC
From: K. Mark Caviezel
Topic: 1647 Message: 1647

> Subject: UV degradation of latex (?)

> I don't think we can cheaply prove that UV
> degradation causes balloon
> failures at altitude, but this simple experiment
> might provide a
> little weight one way or the other.

>>>>> uhmmmm how about flying at night? of course, things will be a lot colder. The Huntsville guys (Bill WB8ELK and Gary N4TXI) both launched some very interesting flights last year. Both had modest free lift, slow ascent rate which stalled at altitude when solar illumination went bye-bye and had very significant endurance after that point. Daytime slow ascenders don't do nearly so well.

- KMC ng0x Denver

1648. Re: [GPSL] > 2. UV degradation of latex (?)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-30 22:21:25 UTC
From: Mike Manes
Topic: 1647 Message: 1648

Ah yes, the counter-countervaling argument arises! Go figger ...
73 de Mike W5VSI

"K. Mark Caviezel" wrote:
>
> > Subject: UV degradation of latex (?)
>
> > I don't think we can cheaply prove that UV
> > degradation causes balloon
> > failures at altitude, but this simple experiment
> > might provide a
> > little weight one way or the other.
>
> >>>>> uhmmmm how about flying at night? of course,
> things will be a lot colder. The Huntsville guys
> (Bill WB8ELK and Gary N4TXI) both launched some very
> interesting flights last year. Both had modest free
> lift, slow ascent rate which stalled at altitude when
> solar illumination went bye-bye and had very
> significant endurance after that point. Daytime slow
> ascenders don't do nearly so well.
>
> - KMC ng0x Denver
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1649. Re: [GPSL] > 2. UV degradation of latex (?)

Yahoo group: GPSL (2002 — 2008)
Date: 2005-08-31 05:05:13 UTC
From: wb8elk@aol.com
Topic: 1647 Message: 1649

Not sure whether UV degradation had any effect on our floater flights in December 2004 but here's some details of the 4 flights:

All four floater flights were pretty much as follows:

Scientific Sales 1500 gram balloon (Sept 2004 batch)
1.5 lb flight train
1.75 to 2.50 lb nozzle lift

Ascent rates from 275 to 400 ft/min

The December 4th flight was launched in the morning - 400 ft/min ascent rate....it achieved float for just 2 hours before bursting in mid afternoon.

Flights 2 and 3 in Dec. 18th were launched around 1:00 pm or so....and never achieved maximum altitude before losing sunlight....they levelled off at 98 and 105k ft.....one was heard again the next morning near Nova Scotia and apparently burst 3 hours after sunrise after 22 hours in the air....it had apparently been slowly descending during the night since that's the only way it could've hit winds that would put it in New England..... 275ft/min and 350 ft/min for the seperate balloons.

Flight 4 on Dec 26th

Launched around 1:00 pm and reached maximum altitude in late afternoon before sunset....batteries froze out after sunset after a few hours of float on it's way to the Bermuda Triangle.

Perhaps a series of identical floater flights both during the day and some during night would answer the UV question.

- Bill WB8ELK

I'm going to try an intentional floater flight soon using these same conditions from the same batch of balloons...perhaps this weekend.

1650. Fwd: KATRINA EMERGENCY FREQUENCIES

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-02 01:14:57 UTC
From: Jon Riley
Topic: 1650 Message: 1650

Note: forwarded message attached.

1651. ANSR-25 PSK-31 telemetry received in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-03 15:47:49 UTC
From: Ralph Wallio, W0RPK
Topic: 1651 Message: 1651

Path distance 1179mi. Longer path reception reports and record entries are encouraged.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1652. ANSR-24 PSK-31 reception report

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-03 19:13:45 UTC
From: Ralph Wallio, W0RPK
Topic: 1652 Message: 1652

So far we have one ANSR-24 PSK-31 reception report ... mine:

Balloon QSL www.kd7lmo.net
1539utc 17,498ft N32d50.05m W112d07.99m 8mph@354d 1.5dop
QSL www.kd7lmo.net de AC7ZT

GCD = 1,179.18mi

First partial frame at 15:33z
Only one frame with no errors at 15:39z (above)
Last partial frame at 1657z

During this period there were 27 frames transmitted at 3min intervals. I
received bits and pieces of 25 (only 1621z and 1624z were completely MIA).

Thanks Michael!

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1653. 6-cell AA holder

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-03 19:50:33 UTC
From: Mark Conner
Topic: 1653 Message: 1653

I am looking for a 6-cell AA battery holder (cells wired in series) that perhaps someone has in their parts bin. I'm looking to use this for a power supply for the NSTAR backup beacon. It's about the only part I need right now, so I'd rather not spend so much on shipping from the usual supply sources. If you happen to have one, perhaps we can work out cash or a trade in other parts.

73 de Mark N9XTN

1654. Re: [GPSL] 6-cell AA holder

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-03 21:42:07 UTC
From: mgray@ess-us.com
Topic: 1653 Message: 1654

Mark,

Would this work for you:

http://www.kd7lmo.net/tech_pwrsource_l91_8pack.html

It is 8 cells, but I could convert it to 6 cells. This is a prototype of
a design that I rolled using a PCB house. Heavy duty Keystone AA battery
holders with real spring steel clips instead of thin wire springs.

The price is right, nothing.

Let me know

On Sat, 3 Sep 2005, Mark Conner wrote:

> I am looking for a 6-cell AA battery holder (cells wired in series) that
> perhaps someone has in their parts bin. I'm looking to use this for a power
> supply for the NSTAR backup beacon. It's about the only part I need right
> now, so I'd rather not spend so much on shipping from the usual supply
> sources. If you happen to have one, perhaps we can work out cash or a trade
> in other parts.
>
>
>
> 73 de Mark N9XTN
>
>
>
>

1655. Re: Suggestion

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-05 15:30:25 UTC
From: Ralph Wallio, W0RPK
Topic: 1655 Message: 1655

Stephanie,

I have very little time for Ham Radio this long weekend but I have been thinking about your suggestion. My opinion is that high altitude ballooning is a very small part of Amateur Radio and that the probability that we could cause an interference problem approaches zero.

In this age of cellular telephones and ubiquitous internet access the opportunity for Hams to provide the only reliable communications is very short and the current communications emergency is almost over. Portable cellular telephone and Wi-Fi nodes are being placed and fired up by the score. It appears the value of Ham Radio communications will be over before we are allowed to even enter the affected areas.

Ham Radio communications will find a few important niches to be of continuing value for a while longer. Continuing operations will be managed by the ARRL Field Organization, specifically ARES. The ARRL will handle any clear channel requirements including posting specific frequencies at http://www.arrl.org/ and even asking the FCC to require all other Hams to stay off specific frequencies.

Like all active Hams we should watch ARRL web pages for announcements relating to staying off specific frequencies such as what is posted at http://www.arrl.org/news/stories/2005/09/01/2/?nc=1 (all HF for now).

We can consider canceling our high altitude balloon flights when the ARRL starts canceling scheduled HF and VHF/UHF contests, QSO parties, et al. Until then I suggest we should continue flying.

TNX es 73 de Ralph Wallio, W0RPK
wallio@...
http://users.crosspaths.net/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Stephanie Steele" <kc7dba@...>
To: "Ralph Wallio, W0RPK" <wallio@...>
Cc: "Balloon_Sked" <Balloon_Sked@yahoogroups.com>
Sent: Monday, September 05, 2005 7:37 AM
Subject: Suggestion

Hi Ralph,

As a police officer I am very concerned with the possible effects of our hobby activities on what is going on on the Gulf Coast. Could you facilitate a discussion among the ballooning groups regarding an effort to avoid any chance of interference with rescue/recovery operations on

APRS in the Hurricane Katrina area? I think that you would be the best person to spur this discussion.

I would suggest that all groups make sure that their flights not do anything to interfere with those efforts. If you must fly use a maximum path of WIDE2-1 and certainly no RELAY, WIDE, or WIDEn-N in excess of 2-1.

I would also suggest that every group take the equivalent monies spent on a flight and donate that to one of the groups providing humanitarian efforts in that region.

--
Stephanie KC7DBA

1656. Re: [GPSL] Re: Suggestion

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-05 18:20:14 UTC
From: wb8elk@aol.com
Topic: 1655 Message: 1656

Actually, this would be a good way to demonstrate effectively that balloons can help tremendously with emergency comms over a very wide area. One of the reported problems with keeping order and coordinating rescue in the stricken areas was the total lack of comms that police and rescue workers reported between each other and command centers. When the cell and communications towers have been compromised, total comms blackout seems to be the result.

We can help tremendously by flying cross-band and simplex repeaters on low ascent rate latex balloons (another good reason to perfect a balloon valve) to achieve maximum duration, Solar Montgolfiere balloons or even zero pressure...Just by providing a few hours of multi-state VHF/UHF comms between field workers using just HT's and disaster centers up to hundreds of miles away would be of tremendous help....this could even help with comms across the local area as well.

If it weren't for the rapidly declining health of my girlfriend which requires me to stay near home, I'd be in Mobile, AL right now sending balloons west over the area to help out (since we're nearing turnaround....stratospheric winds are getting lighter but still out of the East and would allow very long duration flights that will keep in range).

My suggestion is that those balloon groups with the resources keep a crossband repeater or simplex repeater at the ready along with a long duration balloon for emergencies....and coordinate with the ARES groups in your region on how to coordinate an effort such as this with their disaster comms. Something to keep in mind.

- Bill WB8ELK

1657. Re: [GPSL] Re: Suggestion

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-05 18:34:16 UTC
From: Zack Clobes
Topic: 1655 Message: 1657

I think there is a certain amount of potential there, but on the other hand, that would be a very expensive means of putting a single repeater on the air for a finite amount of time.

The other thing to keep in mind was that the ARRL was requesting the amateurs not enter the disaster area until after the danger was gone.

"I know many people would like to move now," [ARRL President] Haynie said. "Please don't. I know many of you want to enter the fray, come to the coast and get involved. Please, not yet." Haynie instead advised hams eager to assist to make sure they're prepared, refresh their skills and knowledge of protocols and procedures.

This was sent in a ARRL Letter on Friday four days after the hurricane hit.

Zack

wb8elk@... wrote:

>
> Actually, this would be a good way to demonstrate effectively that
> balloons can help tremendously with emergency comms over a very wide
> area. One of the reported problems with keeping order and coordinating
> rescue in the stricken areas was the total lack of comms that police
> and rescue workers reported between each other and command centers.
> When the cell and communications towers have been compromised, total
> comms blackout seems to be the result.
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> range).
>
> My suggestion is that those balloon groups with the resources keep a
> crossband repeater or simplex repeater at the ready along with a long
> duration balloon for emergencies....and coordinate with the ARES
> groups in your region on how to coordinate an effort such as this with

> their disaster comms. Something to keep in mind.
>
> - Bill WB8ELK
>
>
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=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=Sz5ebNg-ZsVyHTzaR4PnAg>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=_8V4kQCK4PEN_MzUUBx-hQ>
> Hobbies and crafts
> <http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Hobby+and+craft+supply&w2=Cra
ft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=J-__6L1W_lZQ58dekNdHLA>
>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ>
>
>
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> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ~~~~~~
>

1658. Re: Suggestion

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 00:33:33 UTC
From: Stephanie Steele
Topic: 1655 Message: 1658

Hi Ralph,

I too have little time for Ham Radio right now. I am trying to organize a law enforcement response from Idaho to the affected area for both manpower and equipment. 200 New Orleans Officers walked off the job since the hurricane, two Officers have committed suicide, and countless other Officers and Deputies are still in the same clothes that they went to work in on Sunday August 28th and catch what little sleep they are getting in the seat of a car. They have no more homes, they have no uniforms or other clothes, and some have no more families, but most continue to do their job with no communications and very little equipment.

I can assure you that cell phones and the Internet are of little to no use to the rescue personnel even now after 8 days to the area. Same goes for land telephones, then virtually don't exist either.

Ham radio is still playing a large role in what little comms they have and I again would encourage everyone who is PLAYING with ham radio to make every effort to make sure that your PLAY does not interfer with the critical communication needs in the Gulf Coast area and for about 200 miles inland from the disaster area.

For APRS you can best do this by keeping your paths short (WIDE2-1 is best) and NOT overfly the area with any type of equipment. The last thing the disaster service personnel need is a hobby balloon getting in the way of what they are doing and/or someone's idea of a "good idea" getting dropped on someone's head. What they truly need are reliable, 24/7 communications of any type and unfortunately even ham radio has been able to afford them little of that due to a lack of preparation on the part of the area hams, and the disaster coordinators that hooked their communications wagons to cell phones and the Internet.

I suggest that waiting until the ARRL makes some announcement is foolish knowing what is known by persons on the ground there NOW. This emergency is not being managed at this point by any centralized organization but instead by people who are trying to make do with very little. I'm not suggesting that anyone not fly, I'm just suggesting that we stay away from the disaster area with our toys and our misguided good intentions. Of course I also suggested that the cost of one flight be donated to a charity of your choice to help with relief efforts in the area.

Stephanie

Ralph Wallio, W0RPK wrote:
> Stephanie,
>
> I have very little time for Ham Radio this long weekend but I have been

> thinking about your suggestion. My opinion is that high altitude ballooning
> is a very small part of Amateur Radio and that the probability that we could
> cause an interference problem approaches zero.
>
> In this age of cellular telephones and ubiquitous internet access the
> opportunity for Hams to provide the only reliable communications is very
> short and the current communications emergency is almost over. Portable
> cellular telephone and Wi-Fi nodes are being placed and fired up by the
> score. It appears the value of Ham Radio communications will be over before
> we are allowed to even enter the affected areas.
>
> Ham Radio communications will find a few important niches to be of
> continuing value for a while longer. Continuing operations will be managed
> by the ARRL Field Organization, specifically ARES. The ARRL will handle any
> clear channel requirements including posting specific frequencies at
> http://www.arrl.org/ and even asking the FCC to require all other Hams to
> stay off specific frequencies.
>
> Like all active Hams we should watch ARRL web pages for announcements
> relating to staying off specific frequencies such as what is posted at
> http://www.arrl.org/news/stories/2005/09/01/2/?nc=1 (all HF for now).
>
> We can consider canceling our high altitude balloon flights when the ARRL
> starts canceling scheduled HF and VHF/UHF contests, QSO parties, et al.
> Until then I suggest we should continue flying.
>
> TNX es 73 de Ralph Wallio, W0RPK
> wallio@...
> http://users.crosspaths.net/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
> ----- Original Message -----
> From: "Stephanie Steele" <kc7dba@...>
> To: "Ralph Wallio, W0RPK" <wallio@...>
> Cc: "Balloon_Sked" <Balloon_Sked@yahoogroups.com>
> Sent: Monday, September 05, 2005 7:37 AM
> Subject: Suggestion
>
>
> Hi Ralph,
>
> As a police officer I am very concerned with the possible effects of our
> hobby activities on what is going on on the Gulf Coast. Could you
> facilitate a discussion among the ballooning groups regarding an effort
> to avoid any chance of interference with rescue/recovery operations on
> APRS in the Hurricane Katrina area? I think that you would be the best
> person to spur this discussion.
>
> I would suggest that all groups make sure that their flights not do

> anything to interfere with those efforts. If you must fly use a maximum
> path of WIDE2-1 and certainly no RELAY, WIDE, or WIDEn-N in excess of 2-1.
>
> I would also suggest that every group take the equivalent monies spent
> on a flight and donate that to one of the groups providing humanitarian
> efforts in that region.
>
>

--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have
trouble remembering how to fly.

****

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****

...and for those who just can not get enough tag lines:

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complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

1659. Ham Radio Operators needed in disaster area

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 00:43:00 UTC
From: Stephanie Steele
Topic: 1655 Message: 1659

From: Mark D. Conklin N7XYO [mailto:n7xyo@...]
Sent: Monday, September 05, 2005 2:19 PM
To: committee@...
Subject: WE NEED 12 HAMS DAILY AT CAMP GRUBER IN BRAGGS OK. 24/7
TILL??

WE NEED 12 HAMS DAILY AT CAMP GRUBER IN BRAGGS OK. 24/7 TILL??

OKLAHOMA DEPARTMENT OF PUBLIC SAFETY - OHP ARE IN COMMAND.
OKLAHOMA DEPARTMENT OF EMERGENCY MANAGMENT ARE ON SITE
OKDEM REQUESTED OUR HELP TO RUN COMMUNICATIONS.

YOUR HELP IS NEEDED NOW!!!!
PLEASE CALL 918-831-1807 TO VOLUNTEER NOW.
ANY HAM TECH OR HIGHER. WE NEED 12 HAMS DAILY AT CAMP GRUBER IN
BRAGGS OK. 24/7 TILL ???

6 - HAMS 0700-1900
6 - HAMS 1900-0700

DON'T ASSUME WE ARE COVERED OR CAN'T USE YOUR HELP AT SOMETIME.
YOU CALL US WE WILL SCHEDULE YOU.

ANY HAM TECH OR HIGHER. GOOD HT, EXTRA BATTERIES, WE HAVE AA
BATERIES ON SITE. WEAR GOOD SHOES.

AMATEUR RADIO IS THE COMMICATIONS NET AT GRUBER.
SPREAD THE WORD... GET ON YOUR NETS
THIS IS NOT A DRILL. ANY HAM TECH OR HIGHER.

WE HAVE 6 BEDS IN GRUBER.
RED CROSS HAS LOTS OF FOOD, WATER & COFFEE

PLEASE CALL 918-831-1807 TO VOLUNTEER NOW.

73 MARK CONKLIN N7XYO

--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have
trouble remembering how to fly.

****

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confidential information intended only for the use of the individual or
entity to whom it is addressed. If the reader of this e-mail message is
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dissemination, distribution, copying or the taking of any action based
upon the information contained in this message is strictly prohibited.

de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

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sense of humor or irrational religious beliefs. If you are
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Those of you with an overwhelming fear of the unknown
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that Alert Notice from Microsoft. However, by pouring a
complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

1660. Fwd: [HABITAT_SkyLab] Herrington Launch a go - update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 00:53:16 UTC
From: Don KA0JLF
Topic: 1660 Message: 1660

FYI... ;-)
73
Don

--- habitat_skylab wrote:

> Date: Wed, 07 Sep 2005 00:39:19 +0000
>
> OH, here is what I really wanted to write about:
> (shortened version of
> long story);
>
> Tonight I went buy Super Target. They had the new
> DVD camcorder
> (newer version of the DV 5900). It does VGA at 30
> fps, and will do 240
> minutes at QVGA, with the 1 GB SD card. Now it
> mentioned other options
> but I don't remember them how. The new one is IS DV
>
http://www.aiptek.com/Merchant2/merchant.mvc?Screen=PROD&Product_Code=R-PKDV57-CS&Category_Code=DC1
it has digital image
> stabilization, and
> some other features, $130 plus tax. Oh, it has a
> rechargeable lithium-ion
> battery too. They are selling refurbished one on the
> web (link above) for
> $130, so, new for the same price is probably good.
> They have changed
> the shape a little too. Probably better for my
> payload anyway.
>
> So anyone want a 120 GB drive (new unopened - bought
Sunday, explanation deleted in my edit) for $95 plus
tax (I'll
> give you the rebate
> stuff and you get about 2/3s of it back). ;-)
>
> Otherwise, I think I'll return the HD and use that
> money to buy another
> camcorder, so I'll have it to fly Saturday. That
> would give me one camera
> up and one out the side (angled down?).

_____
Click here to donate to the Hurricane Katrina relief effort.
http://store.yahoo.com/redcross-donate3/

1661. GPSL 2006 Dates in Hutchinson

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 02:08:50 UTC
From: Zack Clobes
Topic: 1661 Message: 1661

I believe that I already announced that the Fourth of July (and 8 July) will not be an option for GPSL in Hutchinson, KS next year because of the US Senior Open golf tournament.. Does anyone else have any other preferences?

At this point, my schedule is fairly open. I have had a couple of requests that we do not do it in the weeks leading up to the 4th because of harvest in the area.

Thoughts?

Zack Clobes, W0ZC
Project: Traveler.

1662. Re: [GPSL] GPSL 2006 Dates in Hutchinson

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 13:28:04 UTC
From: PAUL VERHAGE
Topic: 1661 Message: 1662

Pretty much any time int he summer is open for me. We'll need to get a date soon so everyone can plan.

Thanks for taking care of this. I plan to write something into my Nuts and Volts column when you have a date for GPSL.

Paul

>>> zclobes@... 09/06/05 8:08 PM >>>
I believe that I already announced that the Fourth of July (and 8 July) will not be an option for GPSL in Hutchinson, KS next year because of the US Senior Open golf tournament.. Does anyone else have any other preferences?

At this point, my schedule is fairly open. I have had a couple of requests that we do not do it in the weeks leading up to the 4th because of harvest in the area.

Thoughts?

Zack Clobes, W0ZC
Project: Traveler.

Yahoo! Groups Links

1663. Re: [GPSL] GPSL 2006 Dates in Hutchinson

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 13:37:05 UTC
From: n9xtn@cox.net
Topic: 1661 Message: 1663

Is Memorial Day weekend too early?

Otherwise, late July or early August is OK with me.

73 de Mark N9XTN

----- Original Message -----
From: Zack Clobes <zclobes@...>
Date: Tuesday, September 6, 2005 9:08 pm
Subject: [GPSL] GPSL 2006 Dates in Hutchinson

> I believe that I already announced that the Fourth of July (and 8
> July)
> will not be an option for GPSL in Hutchinson, KS next year because
> of
> the US Senior Open golf tournament.. Does anyone else have any
> other
> preferences?
>
> At this point, my schedule is fairly open. I have had a couple of
> requests that we do not do it in the weeks leading up to the 4th
> because
> of harvest in the area.
>
> Thoughts?
>
>
> Zack Clobes, W0ZC
> Project: Traveler.
>
>
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1664. Re: [GPSL] GPSL 2006 Dates in Hutchinson

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 13:45:05 UTC
From: PAUL VERHAGE
Topic: 1661 Message: 1664

Memorial Day would be too early for me, I can't get vacation time that close to the end of the school year.

Paul

>>> n9xtn@... 09/07/05 7:37 AM >>>
Is Memorial Day weekend too early?

Otherwise, late July or early August is OK with me.

73 de Mark N9XTN

----- Original Message -----
From: Zack Clobes <zclobes@...>
Date: Tuesday, September 6, 2005 9:08 pm
Subject: [GPSL] GPSL 2006 Dates in Hutchinson

> I believe that I already announced that the Fourth of July (and 8
> July)
> will not be an option for GPSL in Hutchinson, KS next year because
> of
> the US Senior Open golf tournament.. Does anyone else have any
> other
> preferences?
>
> At this point, my schedule is fairly open. I have had a couple of
> requests that we do not do it in the weeks leading up to the 4th
> because
> of harvest in the area.
>
> Thoughts?
>
>
> Zack Clobes, W0ZC
> Project: Traveler.
>
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> ---
> ~->
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Yahoo! Groups Links

1665. Fwd: [HABITAT_SkyLab] HS05C burst video

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 18:54:36 UTC
From: Don KA0JLF
Topic: 1665 Message: 1665

FYI...
I hope to get the IS DV camcorder tonight, so this
Saturday's flight should have 2 DV camcorders. One
looking up, one looking out and down a little.

I hope to capture audio from the simplex repeater this
time in addition to the APRS audio.

73
Don

--- habitat_skylab wrote:

> Date: Wed, 07 Sep 2005 18:44:30 -0000
> Subject: [HABITAT_SkyLab] HS05C burst video
>
> I got XP installed (dual boot) on my PC. I made a
> short video (2mins?) of
> the balloon burst on the last flight HS05C 8/28/05.
> It is slow motion of
> about 12 secs of the burst, stretched to about 25
> secs. It is a Win Media
> Player file.
>
> This should be the URL,
> http://www.habitatskylab.org/HS05C/ ,about < 5
> MB, if you would like to see it. AS you can tell it
> was rushed, I'm new to
> the OS, software and all.
>
> Feedback welcome,
> Don

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http://store.yahoo.com/redcross-donate3/

1666. Re: [GPSL] GPSL 2006 Dates in Hutchinson

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 20:01:32 UTC
From: wb8elk@aol.com
Topic: 1661 Message: 1666

Memorial Day is too close to the Dayton Hamvention to allow enough time to prepare to GPSL for me....Mid-June through August would be best....although I prefer July 4th weekend.

- Bill WB8ELK

1667. Re: [GPSL] GPSL 2006 Dates in Hutchinson

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-07 21:22:55 UTC
From: Mike Manes
Topic: 1661 Message: 1667

Hi Zack,

I recall your having mentioned the US Open, but at the time, the dates were uncertain. How about 1 July 06? I think working this event around a national holiday will help attendance overall. How would harvest and GPSL interact?

Colo Space Grant has requested EOSS flights on 4/22, 6/17, 7/15 and 7/29/06. EOSS members are also committed to other events on 6/10 (ARRL HamCon) and 6/24 (FD). Other public service events are likely to conflict in Jun & Jul, but dates are as yet TBD.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:
>
> I believe that I already announced that the Fourth of July (and 8 July)
> will not be an option for GPSL in Hutchinson, KS next year because of
> the US Senior Open golf tournament.. Does anyone else have any other
> preferences?
>
> At this point, my schedule is fairly open. I have had a couple of
> requests that we do not do it in the weeks leading up to the 4th because
> of harvest in the area.
>
> Thoughts?
>
> Zack Clobes, W0ZC
> Project: Traveler.
>
>
>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1668. Balloon flight 9/10/05 Herrington, KS 9 a.m. HELP with FREQUENCIES???

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-08 00:52:22 UTC
From: Don KA0JLF
Topic: 1668 Message: 1668

After seeing a post in a group, it made me think about what frequencies are in use now, with the disaster work?

We were asked to fly a balloon again this year at the Herrington Airports Open House. We have been doing this each year we can since the first GPSL.

I plan to fly a minimal payload. We plan APRS on 144.34, and a simplex repeater on 145.555. Does anyone know if anyone in our footprint (about 500 mile radius from central KS) will be using these frequencies?

I posted a short video of our last flights balloon burst at:
http://www.habitatskylab.org/HS05C/ if you care to view it. IT was done on my lunch hour. IT is my first one. New OS, new software and a learning curve.

Thanks for any help you can give on the choice of frequencies.

Thanks,
Don KA0JLF

_____
Click here to donate to the Hurricane Katrina relief effort.
http://store.yahoo.com/redcross-donate3/

1669. Balloon flight 9/10/05 Herrington, KS 9am

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-08 18:07:35 UTC
From: K. Mark Caviezel
Topic: 1669 Message: 1669

Don:
your burst video was really cool!
RE balloon flight xmissions affecting Katrina relief:
my suggestion- beacon only once a minute, or once every two minutes to make your QRM -if any- vanishingly small. There is a single, high digi in NOLA that is still working, according to what I've seen on the TAPR APRS list. That is on 144.39, and I'd imagine that emergency responders would stick to the normal APRS frequency to take advantage of that infrastructure.
Simplex repeater- if any emergency responders are using 145.555, you'll hear them and can stand down on your transmissions until the balloon RF footprint does not include the disaster region.

And, here is what I found on ARRL.org:

Amateur Community Asked to Give Katrina Emergency Nets Clear Frequencies (Sep 5, 2005) -- Several HF nets continue in operation to support Amateur Radio's response to the Hurricane Katrina emergency. ARRL asks all members of the Amateur Radio community who are not taking part in disaster relief or recovery operations to give these nets as much elbow room as possible--5 kHz or more on either side of the net frequency. Nets already are having to deal with less-than-ideal propagation, and any interference--even if it's unintentional--can make their job all the more difficult. Special Counsel Riley Hollingsworth of the FCC's Enforcement Bureau says the FCC has not issued an Emergency Communication Declaration (ECD) for any emergency net frequency.

- KMC ng0x Denver

> From: Don KA0JLF <ka0jlf@...>
> Subject: Balloon flight 9/10/05 Herrington, KS 9
> a.m. HELP with FREQUENCIES???
>
> After seeing a post in a group, it made me think
> about
> what frequencies are in use now, with the disaster
> work?
>
> We were asked to fly a balloon again this year at

> the
> Herrington Airports Open House. We have been doing
> this each year we can since the first GPSL.
>
> I plan to fly a minimal payload. We plan APRS on
> 144.34, and a simplex repeater on 145.555. Does
> anyone
> know if anyone in our footprint (about 500 mile
> radius
> from central KS) will be using these frequencies?
>
> I posted a short video of our last flights balloon
> burst at:
> http://www.habitatskylab.org/HS05C/ if you care to
> view it. IT was done on my lunch hour. IT is my
> first
> one. New OS, new software and a learning curve.
>
> Thanks for any help you can give on the choice of
> frequencies.
>
> Thanks,
> Don KA0JLF
>
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>

> Click here to donate to the Hurricane Katrina relief
> effort.
> http://store.yahoo.com/redcross-donate3/
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
>

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1670. GPSL 2006 date proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-08 23:24:26 UTC
From: Mark Conner
Topic: 1670 Message: 1670

Just to set up a strawman, how about 4-6 August (Fri-Sun)? That should be far enough after the 4th that most people can comfortably take a day or two off, gets away from the wheat harvest and the golf tournament, and is a hole in EOSS's otherwise busy flight schedule.

73 de Mark N9XTN

1671. Re: [GPSL] GPSL 2006 date proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-09 01:21:59 UTC
From: Zack Clobes
Topic: 1670 Message: 1671

Okay, I have a motion for 4-6 August for GPSL 2006 in Hutchinson. Any seconds?

Zack

Mark Conner wrote:

> Just to set up a strawman, how about 4-6 August (Fri-Sun)? That
> should be far enough after the 4th that most people can comfortably
> take a day or two off, gets away from the wheat harvest and the golf
> tournament, and is a hole in EOSS's otherwise busy flight schedule.
>
>
>
> 73 de Mark N9XTN
>
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> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
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> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

1672. Re: [GPSL] GPSL 2006 date proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-09 13:31:02 UTC
From: PAUL VERHAGE
Topic: 1670 Message: 1672

That works for me.

Paul

>>> n9xtn@... 09/08/05 5:24 PM >>>
Just to set up a strawman, how about 4-6 August (Fri-Sun)? That should be
far enough after the 4th that most people can comfortably take a day or two
off, gets away from the wheat harvest and the golf tournament, and is a hole
in EOSS's otherwise busy flight schedule.

73 de Mark N9XTN

1673. Re: [GPSL] GPSL 2006 date proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-09 15:20:58 UTC
From: Troy Campbell
Topic: 1670   Message: 1673

I second that emotion.

73 de Troy KC0MIC

--- Zack Clobes <zclobes@...> wrote:

> Okay, I have a motion for 4-6 August for GPSL 2006
> in Hutchinson. Any
> seconds?
>
> Zack
>
> Mark Conner wrote:
>
> > Just to set up a strawman, how about 4-6 August
> (Fri-Sun)? That
> > should be far enough after the 4th that most
> people can comfortably
> > take a day or two off, gets away from the wheat
> harvest and the golf
> > tournament, and is a hole in EOSS's otherwise busy
> flight schedule.
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> >
> >
> > 73 de Mark N9XTN
> >
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> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "GPSL
> <http://groups.yahoo.com/group/GPSL>" on
> > the web.
> >
> > * To unsubscribe from this group, send an
> email to:
> > GPSL-unsubscribe@yahoogroups.com

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1674. Multiple Failures on ARSAT 2005D

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-11 02:01:11 UTC
From: Paulus Adisoemarta
Topic: 1674 Message: 1674

What to do if beacon payload, APRS payload and Telemetry payload failed?
Revert to visual.

This what had happened this morning on ARSAT balloon 2005D.

The CW beacon failed at launch time, thus no beacon and pictures
from digital camera.
But we still have APRS (PocketTracker and OpenTracker using telemetry
firmware) and also 915 MHz telemetry.

Well, after 90 minutes APRS failed at 33,662 feet (both tracker,
as I use only 1 radio, the PocketTracker radio).
See on findu.com: KE5BFH-11 is the PocketTracker and N5SNN-11 is
the OpenTracker with telemetery mode.

But the 915 MHz telemetry continues to work (this is basically a serial
extender using 915 MHz spread spectrum radio), till burst.

We had visual at 73,000 feet (6 people were able to see it), then
another visual at 93,000 till balloon burst at 97800 feet (the sky was
cloudless that we can see the talc spread out at burst). Plain eyes
without binoculars.

But then the 915 MHz radio failed at 70,000 feet while descending.
With no beacon, no APRS and no telemetry we revert to visual.
Basically we box the approximate landing site and just scan around
for visual sight of the parachute. We didn't see the balloon
till the predicted touchdown time, so we are afraid that we might
already lost the flight train.

Fortunately the Pockettracker came to alive after touchdown, and we use
it as a beacon for DF until we got one solid packet with its location.
The OpenTracker never came to alive again after touchdown.

Lift off at 10 AM CDT, landing appx at 2 PM and recovery at
around 3 PM. Landing site is 62 miles downrange.

Now back to the drawing board to figure out the failures.

We did not accomplish the 100,000 feet objective, but came very close.

73 de Paulus
N5SNN

--
Paulus Suryono Adisoemarta, Ph.D.
Assistant Professor
Petroleum Engineering Dept. paulus@...

Texas Tech University, Lubbock TX N5SNN / YG1QN

1675. HiBall-4 has been recovered from the middle of the Tennessee River

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-12 05:13:56 UTC
From: wb8elk@aol.com
Topic: 1675 Message: 1675

On Sunday Tim Reliford, a bass fisherman from Somerville, found HiBall-4 in the middle of an inlet about 1/2 mile upriver from where it splashed down a week ago in the Tennessee River just south of Huntsville, AL... it was almost to Ditto Landing on the side across from Hobb's Island...it was hung up in some branches in a shallow spot in the middle of an inlet near where UAH launches their rowboats and where this fellow puts in his bass boat.

It's full of river water and all the components in the PocketTracker are corroded green but I think that the Garmin will work since it's waterproofed. The parachute and balloon remnants were not attached and it looked like a boat prop had sliced the rope just above my beacon.

73s de Bill WB8ELK

1676. HABITAT SkyLab HS05D flight a success!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-12 12:39:35 UTC
From: Don KA0JLF
Topic: 1675 Message: 1676

Flight info, video of balloon burst, xls file of
flight data with graphs at:

http://www.habitatskylab.org/HS05D/

First slideshow of pics, link at:
http://www.habitatskylab.org

Another slideshow will be added tonight with photos
from Debbie and Kent. I'll add links to the slideshows
to the HS05D page.

A link to a google map, with sat foto on one of the
pages, I think. IF not I'll add later.

More info to follow,
Don

Yahoo! for Good
Donate to the Hurricane Katrina relief effort.
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1677. Re: [GPSL] Multiple Failures on ARSAT 2005D

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-12 22:46:56 UTC
From: Mike Manes
Topic: 1674 Message: 1677

Hi Paulus,

Kinda sounds like a low-temperature problem. What chemistry batteries were being used? (LiSO2 are the low-temp survivors). Did you run a cold soak test on the modules before first flight? An hour in a beer cooler with a lb or so of dry ice will be worse than worst case.

73 de Mike W5VSI, EOSS

Paulus Adisoemarta wrote:
>
> What to do if beacon payload, APRS payload and Telemetry payload failed?
> Revert to visual.
>
> This what had happened this morning on ARSAT balloon 2005D.
>
> The CW beacon failed at launch time, thus no beacon and pictures
> from digital camera.
> But we still have APRS (PocketTracker and OpenTracker using telemetry
> firmware) and also 915 MHz telemetry.
>
> Well, after 90 minutes APRS failed at 33,662 feet (both tracker,
> as I use only 1 radio, the PocketTracker radio).
> See on findu.com: KE5BFH-11 is the PocketTracker and N5SNN-11 is
> the OpenTracker with telemetery mode.
>
> But the 915 MHz telemetry continues to work (this is basically a serial
> extender using 915 MHz spread spectrum radio), till burst.
>
> We had visual at 73,000 feet (6 people were able to see it), then
> another visual at 93,000 till balloon burst at 97800 feet (the sky was
> cloudless that we can see the talc spread out at burst). Plain eyes
> without binoculars.
>
> But then the 915 MHz radio failed at 70,000 feet while descending.
> With no beacon, no APRS and no telemetry we revert to visual.
> Basically we box the approximate landing site and just scan around
> for visual sight of the parachute. We didn't see the balloon
> till the predicted touchdown time, so we are afraid that we might
> already lost the flight train.
>
> Fortunately the Pockettracker came to alive after touchdown, and we use
> it as a beacon for DF until we got one solid packet with its location.
> The OpenTracker never came to alive again after touchdown.
>
> Lift off at 10 AM CDT, landing appx at 2 PM and recovery at

> around 3 PM. Landing site is 62 miles downrange.
>
> Now back to the drawing board to figure out the failures.
>
> We did not accomplish the 100,000 feet objective, but came very close.
>
> 73 de Paulus
> N5SNN
>
> --
> Paulus Suryono Adisoemarta, Ph.D.
> Assistant Professor
> Petroleum Engineering Dept. paulus@...
> Texas Tech University, Lubbock TX N5SNN / YG1QN
>
>
>
> Yahoo! Groups Links
>
>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1678. Re: [GPSL] Multiple Failures on ARSAT 2005D

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-13 03:24:00 UTC
From: Paulus Adisoemarta
Topic: 1674 Message: 1678

According to Mike Manes:
>
>Hi Paulus,
>
>Kinda sounds like a low-temperature problem. What chemistry batteries
>were being used? (LiSO2 are the low-temp survivors). Did you run a cold
>soak test on the modules before first flight? An hour in a beer cooler
>with a lb or so of dry ice will be worse than worst case.
>
>73 de Mike W5VSI, EOSS
>

Mike, the battery was Eveready e2 Lithium, and it is rated to -40C,
so the battery should be Ok.
The problem was on the radio (PocketTracker), somehow when I reopened
the package the morning of the flight to reflash the OpenTracker, due
to a bug in the telemetry firmware, I didn't put back the insulation properly
such that the Altoids tin can of the PocketTracker touched the inside
of the mailing tube.
Thus slowly the radio got colder and finally quit. But when it got
heated again after touchdown it transmit again.

The moral of the story, do not work on the payload the morning before
the flight, as you'll mess up something else.

Note: the APRS payload is a tandem OpenTracker and PocketTracker together
where OT is using PT's radio, with different slottime (to prevent
simultaneous transmission).

But, we're happy with the performance and persistance of the students,
they didn't give up even having total loss of downlink.

Thanks,

Paulus N5SNN

1679. Re: [GPSL] Multiple Failures on ARSAT 2005D

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-13 19:15:31 UTC
From: Mike Manes
Topic: 1674 Message: 1679

Hi Paulus,

Still sounds like a low temperature problem. One of the PT's salient
feratures is is very low power consumption, which translates 2 ways:

1. Very long battery life, and
2. Very low local heat generation.

For a balloon payload, #2 can be a disadvangtage, especially if there
is very little thermal insulation between the payload guts and the
forced convection of air down to -80C outside. It is also known that
the VCO free-run freq in the PT xmtr is not temperature-stable; this is
why the PLL tuning procedure is different for balloon payloads. If the
VCO free-run freq drifts too far, the PLL can't pull it in, and the
xmtr goes QRT. Although other balloon groups have had good results
with the PT, EOSS has tested one on 3 flights, and each time, the beacon
failed above about 40K ft in ascent.

Suggest enclosing the PT in at least 1" thick styrofoam with tight
seams, and perhaps even including a chemical glove warmer - one which
carries its own oxidizer rather than depending on ambient PO2. Since
you're using the OT for beacon generation, you might consider adding an
internal temp sensor to one of the telemetry channels, or carrying an
Onset Hobo to log temps in flight.

73 de Mike W5VSI, EOSS

Paulus Adisoemarta wrote:
>
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> >Hi Paulus,
> >
> >Kinda sounds like a low-temperature problem. What chemistry batteries
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1680. Great Plains Super Launch 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-13 22:48:23 UTC
From: Zack Clobes
Topic: 1680 Message: 1680

Hutchinson will again be hosting the GPSL balloon launch in 2006.

The chosen weekend is Friday-Sunday, 4-6 August 2006. It will be the standard Friday Symposium, Saturday launch, Sunday rain-day.

More details to follow...

Zack Clobes, W0ZC
Project: Traveler

1681. New e-mail and web addresses

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-18 17:03:46 UTC
From: Ralph Wallio, W0RPK
Topic: 1681 Message: 1681

DSL broadband service is finally available to we country mice but not via my ISP of the past several years. Goodbye CrossPaths and hello netINS.net with new e-mail and web page addresses.

E-mail to W0RPK@... for Ham Radio stuff including Amateur Radio High Altitude Ballooning and CubeSat topics.

My home page is now http://showcase.netins.net/web/wallio/ with high traffic pages as follows:

AMATEUR RADIO HIGH ALTITUDE BALLOONING:
Launch Announcements:
http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm
Flight Records:
http://showcase.netins.net/web/wallio/ARHABrecords.htm
Links:
http://showcase.netins.net/web/wallio/ARHABlinks.htm

CUBESAT AND OTHER EDUCATIONAL SATELLITES:
Amateur Radio CubeSat Support:
http://showcase.netins.net/web/wallio/CubeSat.htm
VK4GEY/W3GEY Simplex Telecommand Paper:
http://showcase.netins.net/web/wallio/CUBE_Simplex.htm
VK4GEY/W3GEY IARU Link Model System:
http://showcase.netins.net/web/wallio/AMSAT-IARU_Link_Budget_Rev2.3.xls

Migration has been very fragmented. Please pop a flare if any of this does not appear to be working.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1682. Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 15:06:02 UTC
From: Ralph Wallio, W0RPK
Topic: 1682 Message: 1682

You folks may be interested in current relationship issues between ISU HABET and the FAA. Comments, concerns, insight and suggestions will help. I will forward responses to ISU. Note that what Minneapolis ARTCC has to say may equally apply to NSTAR, CNNSP, UND and Concordia flights.

Three e-mail discussions attached:

Colt (ISU HABET) to me
Colt to Ed Mills (FAA Minneapolis ARTCC)
Ed Mills to Colt

EOSS maintains a close relationship with the FAA and occasionally change their flight schedules when requested (required?) by the FAA. Most/all other groups either do not notify the FAA in any way (for exempt flights) or just file NOTAMS with Flight Service.

I wonder if the FAA understands the growing magnitude of ARHAB flights(?) I wonder how Minneapolis ARTCC would react to news that there are many more ARHAB flights in their airspace than just ISU HABET(?). Are we approaching a new era of much more demanding ARHAB flight regulation(?)

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
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Hubbert's Peak - The Mother of all Perfect Storms

>Ralph,
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>Mani and I are a bit concerned because we've been having some issues with
>the FAA lately. MSP FAA Airspace Procedures Office (APO) has really become
>a bother; they've taken an interest in us since this summer.
>
>The guy I've talked to in MSP APO, Ed Mills, is trying to cite the
>hazardous operations clause (101.7) on us because he believes the
>spacecraft with deployed parachute is not visible enough while
>ascending/descending through commercial airspace (18K-45K). While I agree
>with the interpretations you have written down, there is a short little
>blurb in FAR 101.1 (shown below) that concerns me:
>
>(4) Except as provided for in Sec. 101.7, any unmanned free balloon that--
>(i) Carries a payload package that weighs more than four pounds and has a
>weight/size ratio of more than three ounces per square inch on any surface
>of the package, determined by dividing the total weight in ounces of the
>payload package by the area in square inches of its smallest surface;
>(ii) Carries a payload package that weighs more than six pounds;
>(iii) Carries a payload, of two or more packages, that weighs more than 12

>pounds; or
>(iv) Uses a rope or other device for suspension of the payload that
>requires an impact force of more than 50 pounds to separate the suspended
>payload from the balloon.
>(b) For the purposes of this part, a gyroglider attached to a vehicle on
>the surface of the earth is considered to be a kite.
>
>Sec. 101.7 is hazardous ops section. Basically in my view (bluntly), this
>is a way for FAA to cover their butt in case of a mishap. As for as MSP APO
>is concerned, even if we fly a spacecraft <4 lbs without telling them, they
>will cite us for hazardous ops and campaign to shut us down.
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>In the past, we have just faxed position reports at launch, 18K, 45K, and
>landing. Over this past summer, we have had to call Area 5 Ops in MSP in
>addition to faxing reports out. Now, even phoning reports in is beginning
>to seem like its not enough for them. We've attempted to have a position
>report similar to EOSS, displaying our FlightConsole data (Flight path map,
>GPS location, heading, groundspeed, predict landing site, and burst
>location) on the internet for them, but MSP does not like that idea. The
>only safe way in MSP APO's mindset is to fly a transponder. I've explained
>to them that this would put the package over 6 pounds and dramatically
>increase our operating cost, but they're still stuck on the idea of a
>transponder.
>
>I am curious as to your position on this. Have any other Amateur Radio HAB
>groups had this problem with the FAA? I am thinking it might be a good idea
>to discuss this with other groups/operators, because this may likely become
>the norm for FAA in the near future. I look forward to your thoughts and
>thanks again for the help and consideration.
>
>Colt

>"Colt R. Wallace" <coltrw@...>
>08/12/05 11:11 AM
>To: Ed M Mills/AGL/FAA@FAA
>Subject: Upcoming Iowa State Balloon Flights
>
>Mr. Mills,
>
>I am contacting you today in order to coordinate with the Airspace
>Procedures Office regarding upcoming high altitude balloon flights for the
>HABET program located at Iowa State University in Ames, IA. The Procedures
>Office has been in close contact with our management in the past two
>months. Recently, the Procedures Office has asked HABET to complete all
>high altitude balloon flights by 1000 CDT.
>
>In most circumstances, HABET is happy to oblige this request. We believe it
>is very important to adhere to the guidelines and requests the procedures
>offices makes in order to fly safely and reliably through the surrounding
>airspace. There are times that require HABET to schedule launches after

>1000 CDT, such as weather delays or customer requirements. It is for
>circumstances such as these in which we need to open a dialogue and
>determine the best way to proceed.
>
>During the weekend of September 10 and 11, HABET is under contract to fly
>four high altitude balloon flights for the NASA/Stanford National Center
>for Space Biological Technologies. The weather date for these flights are
>September 9 & 12. The mission designations for these flights will be HABET
>L88, L89, L90, and L91. The customer requires HABET to fly two balloon
>flights per day during that time period. Our current schedule estimates
>that HABET will be done with flight procedures by 1330 CDT (weather
>depending).
>
> From our past conversations, you have been primarily concerned about
>flight through commercial airspace, between flight levels of 18,000 ft
>through 45,000 feet. Your main concern was that the position reports faxed
>to the various places would not be received in time. In the past we have
>alleviated this problem by calling in position reports at specified flight
>levels to the Area 6 Supervisor Desk (463-5586). HABET recognizes the need
>for FAA centers to have access to timely information reports and will
>coordinate with the Airspace Procedures Office to the best of our ability
>to accommodate this need.
>
>HABET personnel have been researching ways to automate a timely position
>report (other than faxes) to FAA centers during HABET flights to improve
>upon both safety and reliability. HABET now has the ability to upload an
>image to a web server that contains a great deal of flight information,
>including:
>
>1. Flight path map (current and estimated)
>2. Spacecraft position (in Lat, Long, DDMM), altitude, and flight time
>3. Heading and Ground speed
>4. Estimated balloon burst altitude, location and time to burst
>5. Estimated landing position and time to land.
>
>The web page that this information will be displayed on can be set by the
>user to auto-update at specific intervals. This will allow FAA centers
>timely access to HABET position data while minimizing the impedance to
>HABET mission operations.
>
>I would appreciate your input on this new position reporting system as well
>as specific procedures you would like to implement for the upcoming flights
>on September 10 & 11.
>If you believe this new position reporting system is feasible, I believe a
>system test via a HABET flight simulation would be prudent. Schedule a time
>you would like to have access to the view the flight information on the
>webpage and we will have the system up and running.
>
>I look forward to any input you might have. If you have any questions, feel
>free to email or call me. Thank you.

>
>Sincerely,
>
>Colt Wallace
>
>
>Colt R. Wallace
>Acting Associate Director
>Spacecraft Systems & Operations Laboratory
>(515) 294-2672 - Voice
>(515) 296-3361 - Fax
>coltrw@...
>http://cosmos.ssol.iastate.edu
>

>To: "Colt R. Wallace" <coltrw@...>
>Cc: Allen.D.Thoreson@..., Connie.Hreha@...
>Subject: Re: Upcoming Iowa State Balloon Flights
>X-Mailer: Lotus Notes Release 6.5.1 January 21, 2004
>From: Ed.M.Mills@...
>Date: Fri, 2 Sep 2005 10:02:47 -0500
>
>Colt,
>
>After our recent conversations I have discussed the balloon flights with
>the affected operational area supervisors here. We prefer early morning
>lift-offs at sunrise, with a payload downtime around 0900, since traffic
>is light at that time. Your later flights cause us some concern. The
>supervisors have indicated a window from 11:30 to 1300 CDT that could fit
>into normal traffic flows, however that means that we'd like to see that
>payload back on the ground by 1300 since the next round of traffic begins
>around 1300. I can only suggest that for the later flights that you
>contact the Area desk prior to the launch to pre-coordinate. This will of
>course depend on your flight path projection which I would like as soon as
>possible the previous day (Friday the 9th to me, and fax'd to our watch
>desk on the 10th for the next day) . I have already expressed our
>concerns numerous times with the incidence of a worse case scenario of the
>balloon or payload in the same vicinity of aircraft traveling at excessive
>speeds. It is our intent to support your operation to the extent possible
>but our first and primary function is to provide a safe environment for
>the aircraft in the area. Dependent on the time of day there can be 30-40
>aircraft in that area at the higher altitudes (33,000 to 41,000 feet).
>Weekends generally do not have the heavier flows so I hope that the 10th
>and 11th of September will produce the atmospherics that you need. If you
>need to do this during the weekdays we will require previous coordination
>prior to any later launch.
>
>I would like to take you up on your offer of uploading an image to a web
>server with a simulation that we can observe. My only concern with using
>this as a primary information source is that it would require our

>supervisor to monitor the web site on a continuous basis and we do not
>have that luxury either personnel or equipment-wise within those affected
>operational areas. Would next Wednesday, Sept. 7, be a possibility for
>that simulation??
>
>I do have to stress that any launches that occur during peak traffic times
>will cause me to consider the flight under FAR 101.7 as a hazardous
>operation regardless of any of your contractual obligations.
>
>Ed Mills
>Minneapolis ARTCC
>(651) 463-5536
>
>

1683. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 16:22:09 UTC
From: Kent Ochs
Topic: 1682 Message: 1683

My experience with model rocketry concerning notification and waivers has been that FAA officials rarely understand their own regulations. Ask two FAA officials the same question and you will get two different answers.

I certainly feel that cooperation, in the name of safety, is a good thing. But, the model rocket hobbyist's attempt at cooperation resulted in a multi-year fight with the FAA to get them to follow their own regulations. This legal action was led by a fairly large group, the NAR (National Association of Rocketry). This group spent considerable dollars in this fight. I do not believe that this hobby has a group similar to the NAR to lead the fight, unless the ARRL is interested.

A couple of suggestions in no particular order

1. The ARRL does have attorney members that provide pro bono services in Amateur Radio related legal matter. I do not know whether this would applies to ARHAB as this is problem is FAA rather FCC related.

2. If a flight requires a waiver, you may have no choice but to do your best to develop a working relationship with the FAA within the rules that govern balloon flights. No where in those regulations do I remember transponders being required. Keep in mind that government agencies are forbidden to make up regulations without going through a formal process to do so.

3. I would be careful about debating this issue in public. Public official have and will read these kind of posts. The possibility exists that something said here will be taken out of context or will be viewed as offensive. From a legal standpoint, you may tip your hand. This could be counter productive to the cause. Of course, to some extent, I am violating this point by writing this message:-(

4. Unless your payload requires a waive, file your NOTAM and leave sleeping dogs lie.

Living in the Chicago area, I would never dream of launching a balloon, exempt or not, in the busy airspace around O'hare. I am all for safety. I also believe in following the rules as written and not allowing unreasonable government requests and regulation outside what is written. If the FAA is going to try to enforce or apply a different set of regulations on this hobby, then they need to go through the proper process.

Good luck to all concerned in this matter. For your and the hobby's sake, I hope a reasonable resolution to this issue can be obtained.

Kent Ochs
W9KAO

"Ralph Wallio, W0RPK" <W0RPK@...> wrote:
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and the FAA. Comments, concerns, insight and suggestions will help. I will
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>Sincerely,
>
>Colt Wallace
>
>
>Colt R. Wallace
>Acting Associate Director
>Spacecraft Systems & Operations Laboratory

>(515) 294-2672 - Voice
>(515) 296-3361 - Fax
>coltrw@...
>http://cosmos.ssol.iastate.edu
>

>To: "Colt R. Wallace" <coltrw@...>
>Cc: Allen.D.Thoreson@..., Connie.Hreha@...
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>supervisors have indicated a window from 11:30 to 1300 CDT that could fit
>into normal traffic flows, however that means that we'd like to see that
>payload back on the ground by 1300 since the next round of traffic begins
>around 1300. I can only suggest that for the later flights that you
>contact the Area desk prior to the launch to pre-coordinate. This will of
>course depend on your flight path projection which I would like as soon as
>possible the previous day (Friday the 9th to me, and fax'd to our watch
>desk on the 10th for the next day) . I have already expressed our
>concerns numerous times with the incidence of a worse case scenario of the
>balloon or payload in the same vicinity of aircraft traveling at excessive
>speeds. It is our intent to support your operation to the extent possible
>but our first and primary function is to provide a safe environment for
>the aircraft in the area. Dependent on the time of day there can be 30-40
>aircraft in that area at the higher altitudes (33,000 to 41,000 feet).
>Weekends generally do not have the heavier flows so I hope that the 10th
>and 11th of September will produce the atmospherics that you need. If you
>need to do this during the weekdays we will require previous coordination
>prior to any later launch.
>
>I would like to take you up on your offer of uploading an image to a web
>server with a simulation that we can observe. My only concern with using
>this as a primary information source is that it would require our
>supervisor to monitor the web site on a continuous basis and we do not
>have that luxury either personnel or equipment-wise within those affected
>operational areas. Would next Wednesday, Sept. 7, be a possibility for
>that simulation??
>
>I do have to stress that any launches that occur during peak traffic times
>will cause me to consider the flight under FAR 101.7 as a hazardous
>operation regardless of any of your contractual obligations.
>

>Ed Mills
>Minneapolis ARTCC
>(651) 463-5536
>
>

YAHOO! GROUPS LINKS

Visit your group "GPSL" on the web.

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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1684. RE: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 16:22:20 UTC
From: Rochte, Robert
Topic: 1682 Message: 1684

>4. Unless your payload requires a waive[r], file your NOTAM and leave
sleeping dogs lie.

I'll give that one a loud "AMEN"... How many exempt balloons does NWS
launch every day?? We're deluding ourselves if we think that the
comparatively small number of amateur balloons flying each year are
significant in even a statistical sense when it comes to air safety.

Want more regulations? Just let all of the amateur groups around the
country start creating a hassle for their local ATC about otherwise exempt
flights and watch what happens within a few years...

73,
Robert
KC8UCH

1685. Re: Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 17:22:25 UTC
From: Roger Hammond
Topic: 1682 Message: 1685

>only safe way in MSP APO's mindset is to fly a transponder. I've
explained
> >to them that this would put the package over 6 pounds and
dramatically

...and if we were all to find a lightweight and affordable way of
implementing a Mode C transponder into our payloads, I'm just sure
the FAA would relieve us of all responsibility if an incident were to
occur!

I'm not sure what the answer is. I'd hate to think we're just
getting started in this hobby and might be forced to shut it down.

Roger - KC0MWM
CNNSP - Central Nebraska Near Space Program
http://webpages.charter.net/kc0mwm/home
email: kc0mwm@...

1686. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 20:31:29 UTC
From: Gene Harlan
Topic: 1682 Message: 1686

Kent,

I live in Rockford, IL, and have talked to the FAA about balloon launches as I thought that we are close enough that it would be a problem. It took a while to get a response, but they called one day and said OK. That was a few years ago and never got enough guys (or girls) together to make it happen, but still would like to at some point.

So, let's get some people together and launch from Rockford?

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: Kent Ochs
To: GPSL@yahoogroups.com
Sent: Monday, September 19, 2005 11:22 AM
Subject: Re: [GPSL] Fw: HABET FAA Requirements

Living in the Chicago area, I would never dream of launching a balloon, exempt or not, in the busy airspace around O'hare. I am all for safety. I also believe in following the rules as written and not allowing unreasonable government requests and regulation outside what is written. If the FAA is going to try to enforce or apply a different set of regulations on this hobby, then they need to go through the proper process.

Good luck to all concerned in this matter. For your and the hobby's sake, I hope a reasonable resolution to this issue can be obtained.

Kent Ochs
W9KAO

1687. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 20:42:31 UTC
From: PAUL VERHAGE
Topic: 1682 Message: 1687

Gene, have you thought about holding a super launch?

Paul

>>> atvq@hampubs.com 09/19/05 2:31 PM >>>
Kent,

I live in Rockford, IL, and have talked to the FAA about balloon launches as I thought that we are close enough that it would be a problem. It took a while to get a response, but they called one day and said OK. That was a few years ago and never got enough guys (or girls) together to make it happen, but still would like to at some point.

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----- Original Message -----
From: Kent Ochs
To: GPSL@yahoogroups.com
Sent: Monday, September 19, 2005 11:22 AM
Subject: Re: [GPSL] Fw: HABET FAA Requirements

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Good luck to all concerned in this matter. For your and the hobby's sake, I hope a reasonable resolution to this issue can be obtained.

Kent Ochs
W9KAO

1688. 100g balloons for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-19 22:31:06 UTC
From: Mark Conner
Topic: 1688 Message: 1688

I recently received a batch of 30 100g balloons from an eBay seller. They are Kaysam balloons and were manufactured in November of 1995. They are all sealed and don't look like they have any significant degradation. I think they were kept in the original box from Kaysam during storage.

They are the usual tan latex color. I got these for demos, PIBALs (though color isn't optimum), experiments as "booster" balloons, and so forth. I'll keep a bunch for myself, but plan to sell at least 10 or 15 if anyone's interested. Cost will be $4 each which includes postage - some sort of quantity discount for >5 to one address can probably be arranged.

73 de Mark N9XTN

1689. Re: [GPSL] 100g balloons for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-20 03:00:09 UTC
From: Troy Campbell
Topic: 1688 Message: 1689

Mark,

I'll take 6.

73 de Troy, KC0MIC

--- Mark Conner <n9xtn@...> wrote:

> I recently received a batch of 30 100g balloons from
> an eBay seller. They
> are Kaysam balloons and were manufactured in
> November of 1995. They are all
> sealed and don't look like they have any significant
> degradation. I think
> they were kept in the original box from Kaysam
> during storage.
>
>
>
> They are the usual tan latex color. I got these for
> demos, PIBALs (though
> color isn't optimum), experiments as "booster"
> balloons, and so forth. I'll
> keep a bunch for myself, but plan to sell at least
> 10 or 15 if anyone's
> interested. Cost will be $4 each which includes
> postage - some sort of
> quantity discount for >5 to one address can probably
> be arranged.
>
>
>
> 73 de Mark N9XTN
>
>
>
>

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http://mail.yahoo.com

1690. Re: [GPSL] 100g balloons for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-20 03:07:41 UTC
From: David Hoffman
Topic: 1688 Message: 1690

Hey Mark, I'll take about 6 of them as well.
David Hoffman - KE4FGW

> I recently received a batch of 30 100g balloons from an eBay seller. They
> are Kaysam balloons and were manufactured in November of 1995. They are
> all
> sealed and don't look like they have any significant degradation. I think
> they were kept in the original box from Kaysam during storage.
>
>
>
> They are the usual tan latex color. I got these for demos, PIBALs (though
> color isn't optimum), experiments as "booster" balloons, and so forth.
> I'll
> keep a bunch for myself, but plan to sell at least 10 or 15 if anyone's
> interested. Cost will be $4 each which includes postage - some sort of
> quantity discount for >5 to one address can probably be arranged.
>
>
>
> 73 de Mark N9XTN
>
>
>
>

1691. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-20 19:56:10 UTC
From: Gene Harlan
Topic: 1682 Message: 1691

I guess if we held a super launch here in Rockford, IL, I would be able to go! Don't know if the "groups" would want to come here, but it is only 90 miles from downtown Chicago, 60 miles from Woodfield mall, where those that like to shop can do all they want! Not that Rockford doesn't have shopping of it's own.

If there is ever an interest to come here for a super launch, let me know.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
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815-398-2683 - voice
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http://www.hampubs.com

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, September 19, 2005 3:42 PM
Subject: Re: [GPSL] Fw: HABET FAA Requirements

Gene, have you thought about holding a super launch?

Paul

>>> atvq@... 09/19/05 2:31 PM >>>
Kent,

I live in Rockford, IL, and have talked to the FAA about balloon launches as I thought that we are close enough that it would be a problem. It took a while to get a response, but they called one day and said OK. That was a few years ago and never got enough guys (or girls) together to make it happen, but still would like to at some point.

So, let's get some people together and launch from Rockford?

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----- Original Message -----
From: Kent Ochs

To: GPSL@yahoogroups.com
Sent: Monday, September 19, 2005 11:22 AM
Subject: Re: [GPSL] Fw: HABET FAA Requirements

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Good luck to all concerned in this matter. For your and the hobby's sake, I hope a reasonable resolution to this issue can be obtained.

Kent Ochs
W9KAO

Yahoo! Groups Links

1692. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-20 20:39:44 UTC
From: PAUL VERHAGE
Topic: 1682 Message: 1692

I've always hoped we could have more than one super launch per year. Perhaps this could be the second. I imagine launching from your neck of the woods would help bring the New England states to a super launch.

We've have to pick a day that doesn't conflict with GPSL.

Or perhaps, we could hold GPSL in Rockford some year.

Paul

>>> atvq@... 09/20/05 1:56 PM >>>
I guess if we held a super launch here in Rockford, IL, I would be able to go! Don't know if the "groups" would want to come here, but it is only 90 miles from downtown Chicago, 60 miles from Woodfield mall, where those that like to shop can do all they want! Not that Rockford doesn't have shopping of it's own.

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From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, September 19, 2005 3:42 PM
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----- Original Message -----
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To: GPSL@yahoogroups.com
Sent: Monday, September 19, 2005 11:22 AM
Subject: Re: [GPSL] Fw: HABET FAA Requirements

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Good luck to all concerned in this matter. For your and the hobby's sake, I hope a reasonable resolution to this issue can be obtained.

Kent Ochs
W9KAO

Yahoo! Groups Links

Yahoo! Groups Links

1693. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-22 02:57:49 UTC
From: Mike Manes
Topic: 1682 Message: 1693

Hi Folks,

I've been following the thread on the GPSL reflector that Ralph's email started with great interest. EOSS's relationship with Denver Center and DEN TRACON goes back to the early '90s, when we flew our first "heavy" for Univ. of Colorado.

Back then, the FAA was in the Commerce Dept. and charged with prompting commercial aviation, with flight safety as a primary means towards that end. Some of you may recall seeing the movie "The Great Waldo Pepper"; a side story in this flick was the birth of the FAA, prompted largely by some rather nasty accidents brought on by the barnstormers in the post WW1 era. So it's important to understand the point of view that the FAA folks see our balloon operations from: uncontrolled (and uncontrollable) incursions into controlled airspace, where every other flying object short of birds and lost party balloons shows up on an air traffic controller's scope.

Were it not for a further mandate to promote use of civil airspace for scientific and meteorological purposes, then the FAA would by all rights simply prohibit unmanned ballooning, period. Of course, that would put the hurts on the accurate weather data that the 120 some NWS RAOBs produce, as well as the research conducted by NASA, NOAA and NCAR. Accordingly, unmanned balloon ops are accommodated under the provisions of 14 CFR Part 101 (FAR 101), along with rockets, kites and tethered balloons.

Those of you who have attempted to read this somewhat arcane reg may have been left scratching heads about some of the provisions, e.g. trailing wire antennas and position reports only every 2 hrs. Even the requirement to carry a radar reflector is obsolescent, since few if any FAA control sites even look at primary returns any more. So far as I've been able to determine, it was last amended in the '70s, in reaction to some clown who lived under the approach corridor to LAX launching weather balloons in front of approaching aircraft. This was before GPS or even Loran C, and when FAA transponders and the batteries required to run them would have presented a greater risk of mid-air damage than they could be expected to avert.

It was also back when the amateur high altitude ballooning community comprised maybe just Ralph and Bill Brown. So there really hasn't been much incentive to update FAR 101 to reflect the technology that most of us use regularly, nor to redraft it in plain English!

The foregoing is intended to explain why it's so hard to find ANY FAA folks in the boroughs who understand that reg, even if they've

heard of it. And it also may explain why there is so much variability in how it's applied. I personally believe that an updated FAR 101, drafted with input from us in the community, would go a long way towards eliminating this spotty regulatory action and would further serve to encourage new balloon groups to get flying, since they would know exactly what's necessary to operate safely in civil airspace and further, how to do it. But that's a separate thread, I'm sure, and one which not all of us could easily come to a consensus on, either.

With that background out of the way, perhaps it would be helpful to understand the healthy working relationship that EOSS has established with the FAA over the past 14 years. It began with a face-to-face meeting with the Airways and Procedures manager at Denver ARTCC in Longmont CO.

This personal contact is critically important, in my view, in that it fosters some understanding that the issues relate not so much on chapter-and-verse regs, but on the mutual interests of both parties. Foremost of these is avoidance of a mid-air collision between an aircraft and one of our flight strings; there is no happy ending for either of us in such an event. In fact, absent that risk, we wouldn't be having this conversation.

Collision avoidance can be implemented only to a very limited degree by us balloon operators. Once the bird is launched, the only active control we have is to fire the cutdown. Of course, we can use BalloonTrack to pick a launch site that will minimally impact folks on the ground and to stay clear of airport traffic, and I expect that we all do that to the degree possible. But even if we could detect an impending mid-air, there's not much we could do independently to avoid it. That's where the FAA comes into the picture.

If the FAA controllers have a pretty accurate idea of where our flight string is, both geographically and in altitude, then they can steer the aircraft that they are controlling around us. And they generally give us at least a 5 mile and 3000 ft berth. But of course, that requires that they know where we are. That's where our duty begins.

If we were to carry FAA Mode C transponders, then we'd show up on the controllers scopes just like any other aircraft, with the only limitation being that they can't steer us or control our altitude. Not a real bind, however, since those sector controllers also know how to deal with non-conforming flight crews or those suffering radio failures. They also are trained to deal with transponder failures as well, but this is a bit tougher nut to crack. It usually involves calling for current VOR position fixes from the aircraft and plotting those on the face of the scope with a grease pencil.

Controllers can also direct the plane to take on a specific altitude, course and speed. This isn't an option for a balloon, but due to its zero lateral airspeed, it's essentially a stationary target, except for non-zero ascent and descent rates. Here's where our inflight reports

are useful, despite having to be "sneakernetted" from the floor supervisor to the sector controller.

The frequency and accuracy of those reports have improved stepwise in the past 15 years. In the early '90s, the EOSS tracking and recovery team took regular DF bearings from stations positioned around and at some distance from the balloon, and these were compiled to create a fix. This fix was called in to ARTCC or TRACON, but it was at least 5 minutes old by then. A few years later, first Loran C and then GPS beacons were developed, which provided much more timely reports, but which still had to be phoned in. Most recently, those GPS-based APRS beacons are now I-gated thru to findu.com, where they can be accessed by the FAA in their native language: VOR radial and range as well a altitude, on a minute-by-minute basis.

At each of these steps, EOSS was thanked by the FAA for making the controllers' jobs easier. In fact, after our first flight using findu web reports, the supervisor at Denver Center took the time to call us and tell us that this was absolutely the best reported balloon flight that he'd ever seen.

Not that they'd REALLY, REALLY prefer us to carry a transponder, however. That would make things as easy as possible, short of us simply not launching. One of the responses to this thread mentioned something about adding the 6-lb weight to the flight string would probably push all flights past the FAR 101.1 exempt limit. Not so, on two counts:

1. EOSS interprets "payload" to be that part of the flight string that is essential to the flight mission, regardless of the kind of airframe that gets it to altitude. Accordingly, we don't count the weight of the balloon, parachute or cutdown device in payload weight for FAR 101.1 purposes. And the same thinking should apply to an FAA transponder, IMHO; in fact, one could arguably delete the weight of the APRS beacon(s) as well, but we've not gone that far yet.

2. I have spec sheets on commercial Mode C transponders that weigh under 3 lb, without batteries. But they cost over 2 grand, and must be recertified annually. I've also heard that some will be permanently damaged above 60K ft. And then there's the EMC issue of 250 W peak RF pulses at about 1 GHz getting into the other electronics on the flight string, including, ironically, the GPS!

Another interesting development is a new FAA position reporting scheme, not unlike APRS and findu, which will eventually replace air traffic control radar and transponders. (The acronym escapes me at the moment). This scheme is now in full use in Australia and some EU nations, and is being beta-tested by the FAA on the east coast. Once that scheme is

in place, there are no insurmountable technical barriers to linking
our findu reports right into that system; but let's not hold our
breath on that one ...

In the meantime, I'd not recommend running out to buy a transponder
right now. Denver Center's and more recently Denver TRACON's experience
with our reliable findu.com reports in FAA vernacular, coupled with
the controllers' understanding of balloon flight dynamics, has made life
much easier for them than ever before.

And this gets down to my final point: the FAA folks are regular folks
just trying to do their jobs as well as they can without a whole passle
of trouble. To the extent that we, as high altitude balloon operators,
can help them out and not hassle them when they balk, then we can forge
a sound working relationship with them that will yield some latitude
when we might need it.

This relationship can pay dividends from time to time. For example,
EOSS got an OK to launch thru a solid overcast that developed while
students were struggling to get their payloads working on launch
morning.
The floor supervisor said they were vectoring traffic away from that
area
anyway, so the airspace was all ours.

And just yesterday, I was surprised to hear that ARTCC and TRACON both
OKed the launch of EOSS-100 from a site just 28 NM W of DIA in November,
despite its being directly under one of DIA's approach gate fixes. They
said it would be a hassle for them to vector traffic oddly, but that
since EOSS had been so cooperative with them in the past that they'd
give
us a break for that special occasion.

Now, it does take some time and a number of flights to develop this kind
of relationship. And there will be times that you have to bite the
bullet.
Those are the times when trust develops quickly, so don't blow it by
reciting FAR 101 or otherwise being a hard ass - that'll get you no
farther than arguing with the state trooper who just pulled you over for
10-over. It's OK explain the impact that compliance with their demands
will have - but only after having said "Yessir, yessir, two bags full!".

Sorry for the novelette, but I thought that some of the newly emerging
balloon groups might benefit from some of EOSS's experience.

73 de Mike W5VSI
Prez EOSS

"Ralph Wallio, W0RPK" wrote:
>
> You folks may be interested in current relationship issues between ISU HABET
> and the FAA. Comments, concerns, insight and suggestions will help. I will

> forward responses to ISU. Note that what Minneapolis ARTCC has to say may
> equally apply to NSTAR, CNNSP, UND and Concordia flights.
>
> Three e-mail discussions attached:
>
> Colt (ISU HABET) to me
> Colt to Ed Mills (FAA Minneapolis ARTCC)
> Ed Mills to Colt
>
> EOSS maintains a close relationship with the FAA and occasionally change
> their flight schedules when requested (required?) by the FAA. Most/all
> other groups either do not notify the FAA in any way (for exempt flights) or
> just file NOTAMS with Flight Service.
>
> I wonder if the FAA understands the growing magnitude of ARHAB flights(?) I
> wonder how Minneapolis ARTCC would react to news that there are many more
> ARHAB flights in their airspace than just ISU HABET(?). Are we approaching
> a new era of much more demanding ARHAB flight regulation(?)
>
> TNX es 73 de Ralph Wallio, W0RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
> >Ralph,
> >
> >Mani and I are a bit concerned because we've been having some issues with
> >the FAA lately. MSP FAA Airspace Procedures Office (APO) has really become
> >a bother; they've taken an interest in us since this summer.
> >
> >The guy I've talked to in MSP APO, Ed Mills, is trying to cite the
> >hazardous operations clause (101.7) on us because he believes the
> >spacecraft with deployed parachute is not visible enough while
> >ascending/descending through commercial airspace (18K-45K). While I agree
> >with the interpretations you have written down, there is a short little
> >blurb in FAR 101.1 (shown below) that concerns me:
> >
> >(4) Except as provided for in Sec. 101.7, any unmanned free balloon that--
> >(i) Carries a payload package that weighs more than four pounds and has a
> >weight/size ratio of more than three ounces per square inch on any surface
> >of the package, determined by dividing the total weight in ounces of the
> >payload package by the area in square inches of its smallest surface;
> >(ii) Carries a payload package that weighs more than six pounds;
> >(iii) Carries a payload, of two or more packages, that weighs more than 12
> >pounds; or
> >(iv) Uses a rope or other device for suspension of the payload that
> >requires an impact force of more than 50 pounds to separate the suspended
> >payload from the balloon.
> >(b) For the purposes of this part, a gyroglider attached to a vehicle on
> >the surface of the earth is considered to be a kite.

> >
> >Sec. 101.7 is hazardous ops section. Basically in my view (bluntly), this
> >is a way for FAA to cover their butt in case of a mishap. As for as MSP APO
> >is concerned, even if we fly a spacecraft <4 lbs without telling them, they
> >will cite us for hazardous ops and campaign to shut us down.
> >
> >In the past, we have just faxed position reports at launch, 18K, 45K, and
> >landing. Over this past summer, we have had to call Area 5 Ops in MSP in
> >addition to faxing reports out. Now, even phoning reports in is beginning
> >to seem like its not enough for them. We've attempted to have a position
> >report similar to EOSS, displaying our FlightConsole data (Flight path map,
> >GPS location, heading, groundspeed, predict landing site, and burst
> >location) on the internet for them, but MSP does not like that idea. The
> >only safe way in MSP APO's mindset is to fly a transponder. I've explained
> >to them that this would put the package over 6 pounds and dramatically
> >increase our operating cost, but they're still stuck on the idea of a
> >transponder.
> >
> >I am curious as to your position on this. Have any other Amateur Radio HAB
> >groups had this problem with the FAA? I am thinking it might be a good idea
> >to discuss this with other groups/operators, because this may likely become
> >the norm for FAA in the near future. I look forward to your thoughts and
> >thanks again for the help and consideration.
> >
> >Colt
>
> >"Colt R. Wallace" <coltrw@...>
> >08/12/05 11:11 AM
> >To: Ed M Mills/AGL/FAA@FAA
> >Subject: Upcoming Iowa State Balloon Flights
> >
> >Mr. Mills,
> >
> >I am contacting you today in order to coordinate with the Airspace
> >Procedures Office regarding upcoming high altitude balloon flights for the
> >HABET program located at Iowa State University in Ames, IA. The Procedures
> >Office has been in close contact with our management in the past two
> >months. Recently, the Procedures Office has asked HABET to complete all
> >high altitude balloon flights by 1000 CDT.
> >
> >In most circumstances, HABET is happy to oblige this request. We believe it
> >is very important to adhere to the guidelines and requests the procedures
> >offices makes in order to fly safely and reliably through the surrounding
> >airspace. There are times that require HABET to schedule launches after
> >1000 CDT, such as weather delays or customer requirements. It is for
> >circumstances such as these in which we need to open a dialogue and
> >determine the best way to proceed.
> >
> >During the weekend of September 10 and 11, HABET is under contract to fly
> >four high altitude balloon flights for the NASA/Stanford National Center

> >for Space Biological Technologies. The weather date for these flights are
> >September 9 & 12. The mission designations for these flights will be HABET
> >L88, L89, L90, and L91. The customer requires HABET to fly two balloon
> >flights per day during that time period. Our current schedule estimates
> >that HABET will be done with flight procedures by 1330 CDT (weather
> >depending).
> >
> > From our past conversations, you have been primarily concerned about
> >flight through commercial airspace, between flight levels of 18,000 ft
> >through 45,000 feet. Your main concern was that the position reports faxed
> >to the various places would not be received in time. In the past we have
> >alleviated this problem by calling in position reports at specified flight
> >levels to the Area 6 Supervisor Desk (463-5586). HABET recognizes the need
> >for FAA centers to have access to timely information reports and will
> >coordinate with the Airspace Procedures Office to the best of our ability
> >to accommodate this need.
> >
> >HABET personnel have been researching ways to automate a timely position
> >report (other than faxes) to FAA centers during HABET flights to improve
> >upon both safety and reliability. HABET now has the ability to upload an
> >image to a web server that contains a great deal of flight information,
> >including:
> >
> >1. Flight path map (current and estimated)
> >2. Spacecraft position (in Lat, Long, DDMM), altitude, and flight time
> >3. Heading and Ground speed
> >4. Estimated balloon burst altitude, location and time to burst
> >5. Estimated landing position and time to land.
> >
> >The web page that this information will be displayed on can be set by the
> >user to auto-update at specific intervals. This will allow FAA centers
> >timely access to HABET position data while minimizing the impedance to
> >HABET mission operations.
> >
> >I would appreciate your input on this new position reporting system as well
> >as specific procedures you would like to implement for the upcoming flights
> >on September 10 & 11.
> >If you believe this new position reporting system is feasible, I believe a
> >system test via a HABET flight simulation would be prudent. Schedule a time
> >you would like to have access to the view the flight information on the
> >webpage and we will have the system up and running.
> >
> >I look forward to any input you might have. If you have any questions, feel
> >free to email or call me. Thank you.
> >
> >Sincerely,
> >
> >Colt Wallace
> >
> >

> >Colt R. Wallace
> >Acting Associate Director
> >Spacecraft Systems & Operations Laboratory
> >(515) 294-2672 - Voice
> >(515) 296-3361 - Fax
> >coltrw@...
> >http://cosmos.ssol.iastate.edu
> >
>
> >To: "Colt R. Wallace" <coltrw@...>
> >Cc: Allen.D.Thoreson@..., Connie.Hreha@...
> >Subject: Re: Upcoming Iowa State Balloon Flights
> >X-Mailer: Lotus Notes Release 6.5.1 January 21, 2004
> >From: Ed.M.Mills@...
> >Date: Fri, 2 Sep 2005 10:02:47 -0500
> >
> >Colt,
> >
> >After our recent conversations I have discussed the balloon flights with
> >the affected operational area supervisors here. We prefer early morning
> >lift-offs at sunrise, with a payload downtime around 0900, since traffic
> >is light at that time. Your later flights cause us some concern. The
> >supervisors have indicated a window from 11:30 to 1300 CDT that could fit
> >into normal traffic flows, however that means that we'd like to see that
> >payload back on the ground by 1300 since the next round of traffic begins
> >around 1300. I can only suggest that for the later flights that you
> >contact the Area desk prior to the launch to pre-coordinate. This will of
> >course depend on your flight path projection which I would like as soon as
> >possible the previous day (Friday the 9th to me, and fax'd to our watch
> >desk on the 10th for the next day) . I have already expressed our
> >concerns numerous times with the incidence of a worse case scenario of the
> >balloon or payload in the same vicinity of aircraft traveling at excessive
> >speeds. It is our intent to support your operation to the extent possible
> >but our first and primary function is to provide a safe environment for
> >the aircraft in the area. Dependent on the time of day there can be 30-40
> >aircraft in that area at the higher altitudes (33,000 to 41,000 feet).
> >Weekends generally do not have the heavier flows so I hope that the 10th
> >and 11th of September will produce the atmospherics that you need. If you
> >need to do this during the weekdays we will require previous coordination
> >prior to any later launch.
> >
> >I would like to take you up on your offer of uploading an image to a web
> >server with a simulation that we can observe. My only concern with using
> >this as a primary information source is that it would require our
> >supervisor to monitor the web site on a continuous basis and we do not
> >have that luxury either personnel or equipment-wise within those affected
> >operational areas. Would next Wednesday, Sept. 7, be a possibility for
> >that simulation??
> >
> >I do have to stress that any launches that occur during peak traffic times

> >will cause me to consider the flight under FAR 101.7 as a hazardous
> >operation regardless of any of your contractual obligations.
> >
> >Ed Mills
> >Minneapolis ARTCC
> >(651) 463-5536
> >
> >
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1694. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-22 05:03:04 UTC
From: Hank Riley
Topic: 1682 Message: 1694

Mike,

Thanks for the very nicely detailed explanation of the EOSS experience with FAA over the years.

Your post raises several questions for me, but by far the most intriguing from my perspective revolves around the following notion:

> 1. EOSS interprets "payload" to be that part of the flight
> string that is essential to the flight mission, regardless
> of the kind of airframe that gets it to altitude.
> Accordingly, we don't count the weight of the balloon,
> parachute or cutdown device in payload weight for FAR
> 101.1 purposes.

How did that interpretation arise? This is the first I've heard of anything like that.

Hank

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1695. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-22 07:24:19 UTC
From: Mike Manes
Topic: 1682 Message: 1695

Hi Hank,

That's just what I personally read the term to mean. It's what
the lift system gets paid to do - like a 10 kg satellite on top
of a 1000 kg rocket.

73 de Mike W5VSI

Hank Riley wrote:
>
> Mike,
>
> Thanks for the very nicely detailed explanation of the EOSS
> experience with FAA over the years.
>
> Your post raises several questions for me, but by far the
> most intriguing from my perspective revolves around the
> following notion:
>
> > 1. EOSS interprets "payload" to be that part of the flight
> > string that is essential to the flight mission, regardless
> > of the kind of airframe that gets it to altitude.
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> > parachute or cutdown device in payload weight for FAR
> > 101.1 purposes.
>
> How did that interpretation arise? This is the first I've
> heard of anything like that.
>
> Hank
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

1696. > > >groups had this problem with the FAA?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-22 20:02:25 UTC
From: K. Mark Caviezel
Topic: 1696 Message: 1696

> > >I am curious as to your position on this. Have
> any other Amateur Radio HAB
> > >groups had this problem with the FAA?

YES! Well, some elements of the FAA seem eager to overstep the written policy and in effect end up discouranging a legally sanctioned activity. Some of the co-ordination actives by some Colorado area ham radio high altitude balloon groups- although well intended- I think have actually muddied the water in the Colorado area FSDO. I'm am an aerospace engineer by profession, am an active hot air balloon pilot, and have interest in innovative new technology for balloons and near-space projects. I've formed my own group "ES-OS" (Experimental Sub-Orbital Society) to fly the missions deemed too innovative by another Colorado area balloon group that I've been active in.

"ES-OS" has - safely and prudently - flown payloads as heavy as 152 lbs, and home built polyethylene bags larger than 100,000 cubic feet. I prefer to operate solely under the provisions of FAA part 101, which requires NO notification/coordination for sub 12 lb missions (maximum 6 lbs per individual payload unit, ballistic coefficient limit, too). For 12+ lb flights, Part 101 flights are only supposed to have 6-24 hour notification (not permission) and position reports as requested by ATC. Previously, the local FSDO scratched their head, kicked it to regional in Seattle. The guys in Seattle come back with a 45+ day prior required waiver process which can be a real demoralizing inertia-killer. It's been a real mess. The few times that "ES-OS" has been through this extra-legal waiver process, it has been handled in a not too professional and not really satisfactory manner.
For example - I don't want to waive anything - all of my 12+ lb flights have been in full accordance with all provisions of FAA 101, including inclusion of radar reflectors - yet I have been orally informed by an FAA official that a non-exempt flight needed a waiver. One waiver for a 40 lb flight to 85,000 feet came back with boilerplate inserted for a tethered operation, requiring winching down the balloon if an aircraft approached. No one could tell me where to

get 85,000 feet of lightweight tethering material or a super high speed winch.
Another waiver request came back with FAA-inserted boiler plate text and incorrect contact info from a prior balloon mission from a different group.
And the 45 day prior waiver request requires the applicant to predict the flight trajectory of the balloon.... 45 days prior to the flight!
Clearly, the situation would benefit from reform-adherence to written policy- here in the Denver area.

The situation is really a mess for Colorado area ARHABians, stemming largely from the local FAA's lack of knowledge of their own written regulations and in part I think from other Colorado-area ARHAB group's over willingness to indulge out-of-control FAA bureaucrats in their attempt to over-control a completely legal, ethical, non-polluting, safe, educational and usually fun activity.

My standpoint: operate legally, safely, and ethically. I do not think it is ethical for FAA personnel to levy arbitrarily derived requirements on any aviation activity that is in full compliance with all written regulations with the exception of course of some unforeseen emergency situations where the ATC guys will do what it takes to prevent a dangerous occurrence.
I always prefer to stick with the provisions of part 101- it is the sole WRITTEN policy on unmanned balloon flights as far as I know. If we all abide by written policies, then we're all on the same page and fewer surprises will result. But, politely indulge extra requests when tendered by the FAA, although I feel the ARHAB community will benefit if we all politely and in a professional manner encourage the FAA to abide by their written policies. If the FAA wants to revise/amend their written policies I am perfectly fine with that, but when different flight districts all deal with similar balloon flights in an individualized manner, there is a total break down of national uniformity. As far as "building a relationship" with 'your local FAA'; seems to me there is benefit when all activities are in accordance with publicly available written policies, and a detriment to future new comers when unwritten SOPs evolve over time.

I know of at least 2 instances where a sub 12 lb part 101 non-exempt flight has been ki-bashed by unknowledgeable FAA personnel for seemingly arbitrary

reasons. My prior standpoint was: notify the FAA - even though part 101 exempt sub 12 lb do not require it- as a courtesy to the rest of the aviation community. But since those instances, I'm rather loathe to do.

Regardless of all this water under the bridge, I'm sure many in the community would like to know of your situation there, as it evolves.

73s!

- KMC ng0x Denver

1697. Re: [GPSL] > > >groups had this problem with the FAA?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-22 20:44:43 UTC
From: Kent Ochs
Topic: 1696 Message: 1697

KMC ng0x Denver wrote:

"I do not think it is ethical for FAA personnel to
levy arbitrarily derived requirements on any aviation
activity that is in full compliance with all written
regulations with the exception of course of some
unforeseen emergency situations where the ATC guys
will do what it takes to prevent a dangerous
occurrence."

As I pointed out in a early message, it isn't a matter of whether this type of "on the fly" rule making is "ethical", it is flat out illegal. There is a defined process for government rule making. Some agencies, such as the FCC, follow it religiously, other such as the FAA and the ATF, do not. Now making an agency follow their current rules or go through the proper rule making procedures is another thing. This can be very expensive and extremely time consuming.

It was suggested that maybe it is time to work with the FAA to draft new rules. I would be careful about asking any bureaucratic agency for new rules. The end result may be a new set of rules that no one can comply with, effectively ending this hobby as we know it.

Follow the rules as written and leave the sleeping dogs lie.

Kent

"K. Mark Caviezel" <kmcaviezel@...> wrote:

> > >I am curious as to your position on this. Have
> any other Amateur Radio HAB
> > >groups had this problem with the FAA?

YES! Well, some elements of the FAA seem eager to
overstep the written policy and in effect end up
discouranging a legally sanctioned activity. Some of
the co-ordination actives by some Colorado area ham
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intended- I think have actually muddied the water in
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heavy as 152 lbs, and home built polyethylene bags

larger than 100,000 cubic feet. I prefer to operate solely under the provisions of FAA part 101, which requires NO notification/coordination for sub 12 lb missions (maximum 6 lbs per individual payload unit, ballistic coefficient limit, too). For 12+ lb flights, Part 101 flights are only supposed to have 6-24 hour notification (not permission) and position reports as requested by ATC. Previously, the local FSDO scratched their head, kicked it to regional in Seattle. The guys in Seattle come back with a 45+ day prior required waiver process which can be a real demoralizing inertia-killer. It's been a real mess. The few times that "ES-OS" has been through this extra-legal waiver process, it has been handled in a not too professional and not really satisfactory manner.
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Regardless of all this water under the bridge, I'm sure many in the community would like to know of your situation there, as it evolves.

73s!

- KMC ng0x Denver

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1698. Re: [GPSL] Fw: HABET FAA Requirements

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-23 22:26:21 UTC
From: Mike Manes
Topic: 1682 Message: 1698

Hi John,

I don't think those collision avoidance systems aboard aircraft
are using active radar, but rather are listening to each other's
transponders. Not sure, tho, so it's a good question.

Note however that all aircraft operating above 18,000 ft (FL180) are
under positive control, so they'll get ATC advisories if the controllers
know where your balloon is.

73 de Mike W5VSI

John C Nordlie wrote:
>
> Thanks for your very informative email, Mike! I do have one question
> about radar reflectors though. Although controllers might not monitor
> primary targets anymore, what about collision avoidance radar systems
> carried by some aircraft? I know the more modern of these communicate
> with each other and come to agreement on what two planes should do
> to avoid hitting each other, but what does one of these systems do
> when presented with a nearly-stationairy primary target?
>
> ==
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> 701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
> http://blizzard.rwic.und.edu/~nordlie/
> ==

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1699. > Subject: > > >groups had this problem with the FAA?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-24 16:26:53 UTC
From: K. Mark Caviezel
Topic: 1699 Message: 1699

> It was suggested that maybe it is time to work with
> the FAA to draft new rules. I would be careful
> about asking any bureaucratic agency for new rules.
I fully agree.

> The end result may be a new set of rules that no one
> can comply with, effectively ending this hobby as we
> know it.
>>> possibly. but the multitude of RAOB daily
flights- and their stellar safetly record - bodes well
for the ARHAB community, most of which fly balloon
craft not a whole lot different than the RAOBs.

- KMC

1700. Re: [GPSL] > Subject: > > >groups had this problem with the FAA?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-25 03:50:35 UTC
From: Mike Manes
Topic: 1699 Message: 1700

Gentlemen,

A mid-air or a near miss with an undocumented balloon flight
that causes a violent avoidance maneuver that injures a passenger is
a sure-fire way to bring this hobby to an end.

The FAA will react by amending FAR 101 with draconian regs not unlike
those that burden the amateur rocket community. Rest assured that, in
the aftermath of such an event, this politically reactive process will
not grant much weight to input from our ragtag community.

Yes, the risk is historically quite small, but it is steadily
increasing in proportion to the file size of Ralph's ARHAB
announcements. The majority of our payloads oughtweigh modern 2#
NWS RAOBs, airliner cruise speed have risen by 150+ kt and air traffic
density has tripled since the last rev of FAR 101. Kinda like the risk
of a Cat 4 hurricane hitting New Orleans, by n' by, it'll happen.

The FAA's authority is not strictly limited by FAR regs. They also
have been granted certain discretionary authority which allows them
to issue rules without an act of Congress. The rules re UAVs in
civil airspace are a good example. So adopting a righteously
indignant attitude to the contrary is dangerously naive.

My 15 year experience with drafing medical device safety standards
that ultimately become international law have convinced me that input
from all parties, despite opposing interests, can be accomodated
with minimum net impact, so long as that input is offered and
supported in term of the agreed-upon goals of the forum.

Those who don't come to the party generally get screwed, however.
Reading the Fed Reg minutes behind the amendments to FAR 101
indicates to me that this process operates at the FAA as well.

Sure, we can keep on truckin' in hopes that the God Forbid
doesn't happen.

Or we can be proactive and participate in structuring the rules so
that everyone, regulators and regulatees together, understands
clearly how best to avoid the God Forbid and how to achieve that
goal without smothering under a bureaucratic morass that kills the
hobby, but rather unifies and simplifies how we go about it.

Mike Manes W5VSI
Prez EOSS

"K. Mark Caviezel" wrote:
>
> > It was suggested that maybe it is time to work with
> > the FAA to draft new rules. I would be careful
> > about asking any bureaucratic agency for new rules.
> I fully agree.
>
> > The end result may be a new set of rules that no one
> > can comply with, effectively ending this hobby as we
> > know it.
> >>> possibly. but the multitude of RAOB daily
> flights- and their stellar safetly record - bodes well
> for the ARHAB community, most of which fly balloon
> craft not a whole lot different than the RAOBs.
>
> - KMC
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1701. TNC-X now has X-Digi available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-29 18:11:27 UTC
From: n9xtn@cox.net
Topic: 1701 Message: 1701

I haven't read over all of the documentation on this yet, but it could be an alternative to using a KPC-3 if you want an airborne digipeater. From the schematic it appears it could be powered by regulated 5V as-is or through the on-board 78L05 regulator. If you're building it from a kit, you might want to replace the 78L05 with a low-drop-out version.

For home use, a USB option is available for those who'd rather not deal with a serial port converter.

Is anyone out there doing KISS mode with a Basic Stamp? That's my next little project.

73 de Mark N9XTN

==========

Announcement:

X-Digi is a daughter board for the TNC-X that is based on the UIDigi firmware. It allows a TNC-X to become a stand alone digipeater. It fully supports the WIDEn-N paradigm including UITrace and UIFlood and also does user configurable dupe checking. It has extremely low power consumption and is an ideal digipeater for use in emergency situations.
It supports four independent beacons with separate user configurable paths. The X-Digi configuration parameters can be set using a computer
that runs any terminal program - even a Palm Pilot (though it is not configurable over the air). X-Digi is field upgradable via a computer serial port should firmware upgrades become available.

More info is available at:

www.tnc-x.com

X-Digi is available now. Thanks for the bandwidth.

John W2FS

1702. > 1. TNC-X now has X-Digi available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-29 19:22:33 UTC
From: K. Mark Caviezel
Topic: 1702 Message: 1702

>
> I haven't read over all of the documentation on this
> yet, but it could
> be an alternative to using a KPC-3 if you want an
> airborne
> digipeater.

Mark: this sounds pretty cool. A flea weight digi
would be a welcome addition to any ARHAB group's
airborne arsenal. Let us know how your project shapes
up.

- KMC ng0x Denver

1703. Re: [GPSL] > 1. TNC-X now has X-Digi available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-29 19:52:18 UTC
From: n9xtn@cox.net
Topic: 1702 Message: 1703

I don't know if this would be any lighter or less power-hungry than a KPC-3 removed from its case, but it would less than half the cost (a new KPC-3 goes for about $170 nowadays, the TNC-X/XDigi combo is $68).

73 de Mark N9XTN

----- Original Message -----
From: "K. Mark Caviezel" <kmcaviezel@...>
Date: Thursday, September 29, 2005 2:22 pm
Subject: [GPSL] > 1. TNC-X now has X-Digi available

> >
> > I haven't read over all of the documentation on this
> > yet, but it could
> > be an alternative to using a KPC-3 if you want an
> > airborne
> > digipeater.
>
> Mark: this sounds pretty cool. A flea weight digi
> would be a welcome addition to any ARHAB group's
> airborne arsenal. Let us know how your project shapes
> up.
>
> - KMC ng0x Denver
>

1704. Re: [KNSP] Re: TNC-X now has X-Digi available

Yahoo group: GPSL (2002 — 2008)
Date: 2005-09-30 02:30:22 UTC
From: Mike Manes
Topic: 1704 Message: 1704

That "almost TNC" will probably work fine with >30 dB SNR packet
sigs; it simply applies clipped receive audio to a comparator port
(1-bit ADC). An external FSK demod would have been an immense
improvement at negligible added cost, weight or power consumption.

73 de Mike W5VSI

bergweed wrote:
>
> Another PIC based "almost" TNC has been designed by Bob Ball WB8WGA
> and was featured in ARRL's QEX magazine.
>
> http://www.n9cx.com/BobBall.htm
>
> 73's
> Mike Berg N0QBH
>
> --- In KNSP@yahoogroups.com, n9xtn@c... wrote:
> > I haven't read over all of the documentation on this yet, but it
> could
> > be an alternative to using a KPC-3 if you want an airborne
> > digipeater. From the schematic it appears it could be powered by
> > regulated 5V as-is or through the on-board 78L05 regulator. If
> you're
> > building it from a kit, you might want to replace the 78L05 with a
> low-
> > drop-out version.
> >
> > For home use, a USB option is available for those who'd rather not
> > deal with a serial port converter.
> >
> > Is anyone out there doing KISS mode with a Basic Stamp? That's my
> > next little project.
> >
> > 73 de Mark N9XTN
> >
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> > fully supports the WIDEn-N paradigm including UITrace and UIFlood

> and
> > also does user configurable dupe checking. It has extremely low
> power
> > consumption and is an ideal digipeater for use in emergency
> > situations.
> > It supports four independent beacons with separate user
> configurable
> > paths. The X-Digi configuration parameters can be set using a
> > computer
> > that runs any terminal program - even a Palm Pilot (though it is
> not
> > configurable over the air). X-Digi is field upgradable via a
> computer
> > serial port should firmware upgrades become available.
> >
> > More info is available at:
> >
> > www.tnc-x.com
> >
> > X-Digi is available now. Thanks for the bandwidth.
> >
> > John W2FS
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
> Yahoo! Groups Links
>
>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1705. Re: [KNSP] Stronger balloons?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-01 11:53:03 UTC
From: Mike Manes
Topic: 1705 Message: 1705

Hi Mike,

Yeah, mylar is stronger, but it's also heavier and it doesn't stretch.
So a mylar bag that can accomodate a volume expansion of 100 x,
necessary to go from sea level to 100K', would very like outweigh
the payload by many times. The modest 1200 gram (2.64 lb) latex bag
expands to about 30 ft diameter just prior to burst.

And if you think latex is fragile, try keeping holes out of the
0.25 or 0.35 mil polyethylene skin of a Raven plastic balloon during
prep and fill!

73 de Mike W5VSI
Prez EOSS

upand_at_them wrote:
>
> Has anyone ever tried large Mylar balloons? With how fragile latex
> seems to be, and thinking that a sturdier balloon would achieve greater
> altitudes, I thought someone might have tried Mylar.
>
> Mike
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
> Yahoo! Groups Links
>
>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1706. Telemetry file from 2005C

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-01 17:59:36 UTC
From: Ralph Wallio, W0RPK
Topic: 1706 Message: 1706
Attachments: 1 described; binary payloads are missing from this source WARC

Zack,

I set up two receiving chains on 144.340, one horizontally polarized the other vertically polarized. The attached file was copied via horizontal. I did not copy a single packet via vertical (weak signal only heard, not copied). The vertical chain was tested using local traffic before your flight and using the CAP-N-SPACE downlink on 144.360 after your flight.

My path for this packet was 309.11mi. Records have been updated accordingly.

AJ0NR-11*>APRS <UI>:
$GPRMC,145457,A,3820.4304,N,09746.6270,W,013.2,001.8,011005,005.4,E*6A

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1707. Re: Stronger balloons?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-01 18:11:24 UTC
From: Mike Manes
Topic: 1707 Message: 1707

Hi Mike,

Well, hydrogen will burn in the upper atmosphere, provided with a near-adiabatic supply of oxygen. After all, that's what the NASA Shuttle main engines run on.

However, if you were to use the hydrogen for propulsion, then you'd have a rocket. And if you think FAR 101 is tough for balloons, check the same regs for rockets!

ANd you're right about hydrogen being a bit dangerous. It does yield maybe 10% more lift than helium and it costs a lot less. But all the ignition-avoidance and fire protection you'd be compelled to deal with isn't likely worth those benefits.

73 de Mike W5VSI
EOSS

upand_at_them wrote:
>
> Okay, thanks for the explanation guys. I was just trying to think of a
> way to achieve even higher altitude.
>
> My other idea was a balloon filled with hydrogen where the hydrogen is
> ignited and used for propulsion once the balloon reached near max
> altitude. But then, hydrogen is dangerous, and it probably won't burn
> in the upper atmosphere.
>
> Mike

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1708. Re: [GPSL] Telemetry file from 2005C

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-01 21:03:33 UTC
From: Jon Riley
Topic: 1706 Message: 1708

111,083 altitude td outside of Lindsborg,KS.

The TinyTrack failed around 85K and heard once in a while.It was W0WR-11 on 144.39.That is why it was not heard very well.The other was on 144.34,AJ0NR-11, worked flawlessly.IT WAS NOT A TT. Last minute changes was a good call. More to come.....

Jon
Project Traveler

"Ralph Wallio, W0RPK" <W0RPK@...> wrote:
Zack,

I set up two receiving chains on 144.340, one horizontally polarized the other vertically polarized. The attached file was copied via horizontal. I did not copy a single packet via vertical (weak signal only heard, not copied). The vertical chain was tested using local traffic before your flight and using the CAP-N-SPACE downlink on 144.360 after your flight.

My path for this packet was 309.11mi. Records have been updated accordingly.

AJ0NR-11*>APRS :
$GPRMC,145457,A,3820.4304,N,09746.6270,W,013.2,001.8,011005,005.4,E*6A

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

Yahoo! Groups Links

AJ0NR-11*>APRS :
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>Project: Traveler Balloon - www.rckara.org
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>Project: Traveler Balloon - www.rckara.org
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>Project: Traveler Balloon - www.rckara.org
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>Project: Traveler Balloon - www.rckara.org
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AJ0NR-11*>APRS :
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AJ0NR-11*>APRS :
$GPGGA,154055,3825.6610,N,09743.9900,W,2,11,1.1,33364.8,M,-27.0,M,,*76
AJ0NR-11*>APRS :
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AJ0NR-11*>APRS :
$GPRMC,154127,A,3825.6989,N,09743.9013,W,008.3,066.8,011005,005.4,E*67
AJ0NR-11*>APRS :
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$GPGGA,154155,3825.7592,N,09743.8728,W,1,12,0.8,30405.2,M,-27.0,M,,*7B
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AJ0NR-11*>APRS :
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AJ0NR-11*>APRS :
$GPRMC,154657,A,3826.2857,N,09743.6700,W,013.9,046.7,011005,005.4,E*65
AJ0NR-11*>APRS :
$GPRMC,154757,A,3826.4523,N,09743.5114,W,021.0,030.3,011005,005.4,E*61
```

1709. Re: [GPSL] Telemetry file from 2005C

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-02 19:45:51 UTC
From: Zack Clobes
Topic: 1706 Message: 1709

Thank you.

Our actual peak altitude was 111,083 feet as logged in the telemetry of
AJ0NR-11

AJ0NR-11>APRS:{{D1621,*33858*,+020,11791

Zack

Ralph Wallio, W0RPK wrote:

>Zack,
>
>I set up two receiving chains on 144.340, one horizontally polarized the
>other vertically polarized. The attached file was copied via horizontal. I
>did not copy a single packet via vertical (weak signal only heard, not
>copied). The vertical chain was tested using local traffic before your
>flight and using the CAP-N-SPACE downlink on 144.360 after your flight.
>
>My path for this packet was 309.11mi. Records have been updated
>accordingly.
>
>AJ0NR-11*>APRS <UI>:
>$GPRMC,145457,A,3820.4304,N,09746.6270,W,013.2,001.8,011005,005.4,E*6A
>
>TNX es 73 de Ralph Wallio, W0RPK
>W0RPK@...
>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>--
>
>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>
>
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>>
>AJ0NR-11*>APRS <UI>:
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>{{D1507,00000,+017,12054
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>
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>>
>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>
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>>
>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
>$GPRMC,153727,A,3825.2780,N,09744.6533,W,006.1,357.8,011005,005.4,E*67
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>AJ0NR-11*>APRS <UI>:
>$GPGGA,153755,3825.3290,N,09744.6008,W,2,11,0.8,32942.0,M,-27.0,M,,*79
>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
>{{D1538,00000,+019,11963

>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
>{{D1538,00000,+019,11963
>AJ0NR-11*>APRS <UI>:
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>$GPRMC,153927,A,3825.3908,N,09744.2799,W,006.3,086.2,011005,005.4,E*67
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
>{{D1539,00000,+019,11963
>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
>$GPRMC,154027,A,3825.5599,N,09744.1082,W,017.1,029.3,011005,005.4,E*63
>AJ0NR-11*>APRS <UI>:
>{{D1540,00000,+019,11963
>AJ0NR-11*>APRS <UI>:
>$GPGGA,154055,3825.6610,N,09743.9900,W,2,11,1.1,33364.8,M,-27.0,M,,*76
>AJ0NR-11*>APRS <UI>:
>{{D1540,00000,+019,11963
>AJ0NR-11*>APRS <UI>:
>$GPGGA,154125,3825.6972,N,09743.9062,W,2,12,0.8,31853.9,M,-27.0,M,,*71
>AJ0NR-11*>APRS <UI>:
>$GPRMC,154127,A,3825.6989,N,09743.9013,W,008.3,066.8,011005,005.4,E*67
>AJ0NR-11*>APRS <UI>:
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>$GPGGA,154155,3825.7592,N,09743.8728,W,1,12,0.8,30405.2,M,-27.0,M,,*7B
>AJ0NR-11*>APRS <UI>:
>{{D1541,33858,+020,11916
>AJ0NR-11*>APRS <UI>:
>{{PTime:hhmm,Burst:m,IAT:C,PriBatt:mV -- Mode 2
>AJ0NR-11*>APRS <UI>:
>$GPRMC,154227,A,3825.8381,N,09743.8254,W,012.5,022.4,011005,005.4,E*69
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>{{D1542,33858,+020,11900
>AJ0NR-11*>APRS <UI>:
>{{D1543,33858,+020,11900
>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
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>AJ0NR-11*>APRS <UI>:
>$GPGGA,154555,3826.2385,N,09743.7477,W,2,11,1.0,21857.3,M,-27.0,M,,*7C
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>AJ0NR-11*>APRS <UI>:
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>$GPRMC,154757,A,3826.4523,N,09743.5114,W,021.0,030.3,011005,005.4,E*61
>
>
```

1710. Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 02:20:54 UTC
From: Zack Clobes
Topic: 1710 Message: 1710

During the last chase we were discussing why the temperature was climbing up near the burst altitude.

www.rckara.org/temp/2001b.pdf

The above link is to a graph that I produced after our 2001b launch show the temperature rising back up to nearly freezing level at burst. The launch was in August of 2001. We haven't flown the OAT sensor very much, so this may be our only chart of the data, but many other groups should have similar data.

I'm curious how these temperatures vary throughout the year...

Zack Clobes, W0ZC
Project: Traveler

1711. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 02:39:59 UTC
From: Paulus Adisoemarta
Topic: 1710 Message: 1711

According to Zack Clobes:
>
>During the last chase we were discussing why the temperature was
>climbing up near the burst altitude.
>
>www.rckara.org/temp/2001b.pdf
>
>The above link is to a graph that I produced after our 2001b launch show
>the temperature rising back up to nearly freezing level at burst. The
>launch was in August of 2001. We haven't flown the OAT sensor very
>much, so this may be our only chart of the data, but many other groups
>should have similar data.

Concur!
We also observe the same response on flight 2005C of August 6th 2005,
here is the link to the temperature plot:
http://www.arsat.org/gallery/ARSAT-Space-Flight/Temperature

73 de Paulus N5SNN
--
Paulus Suryono Adisoemarta, Ph.D.
Assistant Professor
Petroleum Engineering Dept. paulus@...
Texas Tech University, Lubbock TX N5SNN / YG1QN

1712. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 02:43:54 UTC
From: Zack Clobes
Topic: 1710 Message: 1712

Do you have any data from other months of the year?

Paulus Adisoemarta wrote:

>According to Zack Clobes:
>
>
>>During the last chase we were discussing why the temperature was
>>climbing up near the burst altitude.
>>
>>www.rckara.org/temp/2001b.pdf
>>
>>The above link is to a graph that I produced after our 2001b launch show
>>the temperature rising back up to nearly freezing level at burst. The
>>launch was in August of 2001. We haven't flown the OAT sensor very
>>much, so this may be our only chart of the data, but many other groups
>>should have similar data.
>>
>>
>
>Concur!
>We also observe the same response on flight 2005C of August 6th 2005,
>here is the link to the temperature plot:
>http://www.arsat.org/gallery/ARSAT-Space-Flight/Temperature
>
>
>73 de Paulus N5SNN
>
>

1713. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 05:15:54 UTC
From: mgray@ess-us.com
Topic: 1710 Message: 1713

Out of Arizona:

April 2005

http://www.kd7lmo.net/ansr_24_data.html

Jan 2005 - Night

http://www.kd7lmo.net/ansr_22_data.html

April 2004

http://www.kd7lmo.net/ansr_18_charts.html

March 2004

http://www.kd7lmo.net/ansr_17_charts.html

You can also download data in CSV format that has OAT for our flight over
the last few years.

http://www.kd7lmo.net/ansr.html

Good luck with your projects

On Sun, 2 Oct 2005, Zack Clobes wrote:

> Do you have any data from other months of the year?
>
> Paulus Adisoemarta wrote:
>
> >According to Zack Clobes:
> >
> >
> >>During the last chase we were discussing why the temperature was
> >>climbing up near the burst altitude.
> >>
> >>www.rckara.org/temp/2001b.pdf
> >>
> >>The above link is to a graph that I produced after our 2001b launch show
> >>the temperature rising back up to nearly freezing level at burst. The
> >>launch was in August of 2001. We haven't flown the OAT sensor very
> >>much, so this may be our only chart of the data, but many other groups
> >>should have similar data.
> >>
> >>
> >
> >Concur!

> >We also observe the same response on flight 2005C of August 6th 2005,
> >here is the link to the temperature plot:
> >http://www.arsat.org/gallery/ARSAT-Space-Flight/Temperature
> >
> >
> >73 de Paulus N5SNN
> >
> >
>

1714. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 12:14:52 UTC
From: Ralph Wallio, W0RPK
Topic: 1710 Message: 1714

Long term averages of temperature increase with altitude above the tropopause as can be seen in U.S. Standard Atmosphere (see http://www.pdas.com/atmos.htm). At the tropopause, 11.1-20.0km, USSA is -56.5dC. Temperature then increases to a maximum of -2.5dC, 47.4-51.0km, and then starts back down all the way to the top of USSA, -85.23dC at 85.5km.

These averages are broken down by latitude and month-of-year in Global Atmospheric Circulation Statistics, 1000-1mb, NCAR Technical Note 366 (the same NCAR/TN I discuss in http://showcase.netins.net/web/wallio/MZW.html - Mean Zonal Winds). Down in the banana belt at 35dN the averages for 10mb (31.2km) vary -45 to -36dC, winter to summer.

From these averages it appears ARHAB temperature measurements approaching 0dC at typical burst altitude are roughly 40dC high. So what could be the problem(?) Lets assume sensor calibration at the surface is correct when directly illuminated by the sun where Atmospheric Mass = 1.5 (AM1.5). Is it still correct at altitude when illuminated at AM0 (with no atmospheric attenuation)(?).

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1715. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 14:14:26 UTC
From: n9xtn@cox.net
Topic: 1710 Message: 1715

Most all atmospheric temperature sensors are designed to be shielded from sunlight for proper operation. If you are operating a LM335-type sensor, for best results it should be placed in something that provides free air flow over the sensor yet blocks the sun. I made a quick housing for mine out of a block of foam with a hole cut lengthwise through the middle that is oriented vertically on the payload (the sensor is attached so it is in about the center of the block). Even with this design, our temperatures run higher than the radiosonde temps above 60 kft, so it's still not perfect.

Based on NSTAR's flight experience, the sun provides a lot of warming at high altitudes. The combination of more intense sunlight due to less atmospheric attenuation, plus (more importantly) far less heat carried away by convection in the thin atmosphere leads to heating above the ambient temperature. Once the sun goes away, temperatures will drop off dramatically.

From Saturday morning's sounding at Topeka, the temperature at 107,000 ft (highest altitude reported) was -45°C.

http://weather.uwyo.edu/cgi-bin/sounding?region=naconf&TYPE=TEXT%3ALIST&YEAR=2005&MONTH=10&FROM=0112&TO=0112&STNM=72456

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
Date: Monday, October 3, 2005 7:14 am
Subject: Re: [GPSL] Outside Air Temp vs. Altitude

> From these averages it appears ARHAB temperature measurements
> approaching
> 0dC at typical burst altitude are roughly 40dC high. So what
> could be the
> problem(?) Lets assume sensor calibration at the surface is
> correct when
> directly illuminated by the sun where Atmospheric Mass = 1.5
> (AM1.5). Is it
> still correct at altitude when illuminated at AM0 (with no
> atmospheric
> attenuation)(?).

1716. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 14:36:38 UTC
From: PAUL VERHAGE
Topic: 1710 Message: 1716

I've run tests on temperatures and color in near space. I can warm up a 2 inch cube by 10 degrees (or more) by painting it black.

Surprisingly though, the aluminum block was cooler than the black one. I understood that aluminum had a high reflectivity, but low emissivity. The net result being that once heat got into the aluminum, it was difficult for it to get out. This si why we cover potatoes in aluminum foil.

Paul

>>> n9xtn@... 10/03/05 8:14 AM >>>
Most all atmospheric temperature sensors are designed to be shielded from sunlight for proper operation. If you are operating a LM335-type sensor, for best results it should be placed in something that provides free air flow over the sensor yet blocks the sun. I made a quick housing for mine out of a block of foam with a hole cut lengthwise through the middle that is oriented vertically on the payload (the sensor is attached so it is in about the center of the block). Even with this design, our temperatures run higher than the radiosonde temps above 60 kft, so it's still not perfect.

Based on NSTAR's flight experience, the sun provides a lot of warming at high altitudes. The combination of more intense sunlight due to less atmospheric attenuation, plus (more importantly) far less heat carried away by convection in the thin atmosphere leads to heating above the ambient temperature. Once the sun goes away, temperatures will drop off dramatically.

From Saturday morning's sounding at Topeka, the temperature at 107,000 ft (highest altitude reported) was -45°C.

http://weather.uwyo.edu/cgi-bin/sounding?region=naconf&TYPE=TEXT%3ALIST&YEAR=2005&MONTH=10&FROM=0112&TO=0112&STNM=72456

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
Date: Monday, October 3, 2005 7:14 am
Subject: Re: [GPSL] Outside Air Temp vs. Altitude

> From these averages it appears ARHAB temperature measurements
> approaching
> 0dC at typical burst altitude are roughly 40dC high. So what
> could be the
> problem(?) Lets assume sensor calibration at the surface is
> correct when

> directly illuminated by the sun where Atmospheric Mass = 1.5
> (AM1.5). Is it
> still correct at altitude when illuminated at AM0 (with no
> atmospheric
> attenuation)(?).

Yahoo! Groups Links

1717. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 17:50:44 UTC
From: Mike Manes
Topic: 1710 Message: 1717

Hi Zack,

That's the tropopause you're seeing - the interface between the
troposphere and the stratosphere. And yeah, the first time I saw
that, I thought we'd had an instrumentation problem.

All of the "weather" we experience occurs in the troposphere, where
the air density is high enough to promote significant convection.
Above that, the air temp increases due to reduced solar flux
attenuation,
lack of significant convection and, of course, very low thermal mass.

The elevation of the tropopause varies from above 60K' in the summer
down to under 30K' in the winter.

One thing to watch out for with OAT sensors: the low air density at
altitude restricts heat transfer between the temp sensor and the air.
If there's any self-heating in the sensor, then it'll read high.
Especially during the 1000 fpm ascent. But after burst, when your
airspeed gets near-Mach-ish, that heat transfer improves dramatically.
Thus, you're likely to a much lower OAT vs Alt curve during descent
than during ascent. You can minimize this error by putting a thin
heatsink on the sensor, exposed to full ambient airflow, but also
shielded from solar heating (tough trick, but check how radiosondes
do it).

Kewl science for your kids, huh?

73 de Mike W5VSI

Zack Clobes wrote:
>
> During the last chase we were discussing why the temperature was
> climbing up near the burst altitude.
>
> www.rckara.org/temp/2001b.pdf
>
> The above link is to a graph that I produced after our 2001b launch show
> the temperature rising back up to nearly freezing level at burst. The
> launch was in August of 2001. We haven't flown the OAT sensor very
> much, so this may be our only chart of the data, but many other groups
> should have similar data.
>
> I'm curious how these temperatures vary throughout the year...
>
> Zack Clobes, W0ZC
> Project: Traveler

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>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1718. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 18:13:55 UTC
From: Mike Manes
Topic: 1710 Message: 1718

Hi Paul,

At optical wavelengths, Al does have high R and thus low E, i.e., it's bright-looking. But at IR, the opposite is true! Same is true for Chromium - which is why chrome trim on a car sitting out in bright sunlight can burn you. Similarly, a black anodized heatsink is not much more effective at far-IR radiative wavelengths than is bare Al surface.

If you really need a good solar absorber/emitter, use carbon black based paint. As close to a pure thermal "black body" as you can get from local sources.

73 de Mike W5VSI

PAUL VERHAGE wrote:
>
> I've run tests on temperatures and color in near space. I can warm up a 2 inch cube by 10 degrees (or more) by painting it black.
>
> Surprisingly though, the aluminum block was cooler than the black one. I understood that aluminum had a high reflectivity, but low emissivity. The net result being that once heat got into the aluminum, it was difficult for it to get out. This si why we cover potatoes in aluminum foil.
>
> Paul
>
> >>> n9xtn@... 10/03/05 8:14 AM >>>
> Most all atmospheric temperature sensors are designed to be shielded
> from sunlight for proper operation. If you are operating a LM335-type
> sensor, for best results it should be placed in something that
> provides free air flow over the sensor yet blocks the sun. I made a
> quick housing for mine out of a block of foam with a hole cut
> lengthwise through the middle that is oriented vertically on the
> payload (the sensor is attached so it is in about the center of the
> block). Even with this design, our temperatures run higher than the
> radiosonde temps above 60 kft, so it's still not perfect.
>
> Based on NSTAR's flight experience, the sun provides a lot of warming
> at high altitudes. The combination of more intense sunlight due to
> less atmospheric attenuation, plus (more importantly) far less heat
> carried away by convection in the thin atmosphere leads to heating
> above the ambient temperature. Once the sun goes away, temperatures
> will drop off dramatically.
>
> >From Saturday morning's sounding at Topeka, the temperature at 107,000

> ft (highest altitude reported) was -45?C.
>
> http://weather.uwyo.edu/cgi-bin/sounding?region=naconf&TYPE=TEXT%
> 3ALIST&YEAR=2005&MONTH=10&FROM=0112&TO=0112&STNM=72456
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Ralph Wallio, W0RPK" <W0RPK@...>
> Date: Monday, October 3, 2005 7:14 am
> Subject: Re: [GPSL] Outside Air Temp vs. Altitude
>
> > From these averages it appears ARHAB temperature measurements
> > approaching
> > 0dC at typical burst altitude are roughly 40dC high. So what
> > could be the
> > problem(?) Lets assume sensor calibration at the surface is
> > correct when
> > directly illuminated by the sun where Atmospheric Mass = 1.5
> > (AM1.5). Is it
> > still correct at altitude when illuminated at AM0 (with no
> > atmospheric
> > attenuation)(?).
>
>
> Yahoo! Groups Links
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1719. hydrogen safety.... propulsion...> 1. Re: Stronger balloons?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-03 21:15:21 UTC
From: K. Mark Caviezel
Topic: 1719 Message: 1719

A big issue with hydrogen propulsion from a balloon is the feed system. My advice: If you've got something that needs to go to balloon altitudes- use a balloon. If you've got something that needs to go to rocket altitudes- use a rocket.

As far as hydrogen danger and safety, I helped assemble and launch a netted manned gas (hydrogen)balloon Sunday at the Albuquerque International Balloon Fiesta. Those pilots (Wallace and Brielmann) flew over 1100 miles. 7 manned balloons were inflated with hydrogen and launched at AIBF on Sunday night without incident. Each balloon has a gross lift of about 2000 lbs. Amateurs can achieve a safer operation than achieved at AIBF by avoiding use of ferrous tools on leaking fittings, using a low pressure or pre purged (nitrogen, CO2, argon) fill line. Any welding gas distributor will have a compressed gas safety booklet. Understanding and actually implementing all of the advice therein will lead to a safe operation. Don't be afraid of hydrogen if you want to use it- but do respect it and use it in accordance to CGA recommendations. Use of helium also has significant safety issues - mechanical energy of the compressed gas and asphyxiation potential. Regardless of your favorate lift gas be sure to read up on proper use.

The gas race is a cool APRS application:
http://www.balloonfiesta.com/Gas/tracking/index.php
The trackers were sealed in a Pelican case with batteries... 9 lbs total.

- KMC Denver, CO
new project: www.strato-x.com

> Message: 1
> Date: Sat, 01 Oct 2005 12:11:24 -0600
> From: Mike Manes <manes@...>
> Subject: Re: Stronger balloons?
>
> Hi Mike,
>
> Well, hydrogen will burn in the upper atmosphere,
> provided with a
> near-adiabatic supply of oxygen. After all, that's

> what the NASA
> Shuttle main engines run on.
>
> However, if you were to use the hydrogen for
> propulsion, then you'd
> have a rocket. And if you think FAR 101 is tough
> for balloons, check
> the same regs for rockets!
>
> ANd you're right about hydrogen being a bit
> dangerous. It does yield
> maybe 10% more lift than helium and it costs a lot
> less. But all the
> ignition-avoidance and fire protection you'd be
> compelled to deal
> with isn't likely worth those benefits.
>
> 73 de Mike W5VSI
> EOSS
>
> upand_at_them wrote:
> >
> > Okay, thanks for the explanation guys. I was just
> trying to think of a
> > way to achieve even higher altitude.
> >
> > My other idea was a balloon filled with hydrogen
> where the hydrogen is
> > ignited and used for propulsion once the balloon
> reached near max
> > altitude. But then, hydrogen is dangerous, and it
> probably won't burn
> > in the upper atmosphere.
> >
> > Mike
>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
>
>
>
>
>

>

>
> Message: 2
> Date: Sat, 1 Oct 2005 14:03:33 -0700 (PDT)
> From: Jon Riley <aj0nr@...>
> Subject: Re: Telemetry file from 2005C
>
> 111,083 altitude td outside of Lindsborg,KS.
>
> The TinyTrack failed around 85K and heard once in a
> while.It was W0WR-11 on 144.39.That is why it was
> not heard very well.The other was on
> 144.34,AJ0NR-11, worked flawlessly.IT WAS NOT A TT.
> Last minute changes was a good call. More to
> come.....
>
> Jon
> Project Traveler
>
> "Ralph Wallio, W0RPK" <W0RPK@...> wrote:
> Zack,
>
> I set up two receiving chains on 144.340, one
> horizontally polarized the
> other vertically polarized. The attached file was
> copied via horizontal. I
> did not copy a single packet via vertical (weak
> signal only heard, not
> copied). The vertical chain was tested using local
> traffic before your
> flight and using the CAP-N-SPACE downlink on 144.360
> after your flight.
>
> My path for this packet was 309.11mi. Records have
> been updated
> accordingly.
>
> AJ0NR-11*>APRS :
>
$GPRMC,145457,A,3820.4304,N,09746.6270,W,013.2,001.8,011005,005.4,E*6A
>
> TNX es 73 de Ralph Wallio, W0RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
> Yahoo! Groups Links
>

```
>
>
>
> AJ0NR-11*>APRS :
>
$GPRMC,145457,A,3820.4304,N,09746.6270,W,013.2,001.8,011005,005.4,E*6A
> AJ0NR-11*>APRS :
>
$GPRMC,145557,A,3820.6704,N,09746.6650,W,020.5,015.3,011005,005.4,E*62
> AJ0NR-11*>APRS :
>
$GPRMC,145757,A,3821.0305,N,09746.4252,W,010.5,352.6,011005,005.4,E*60
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
$GPRMC,145827,A,3821.0912,N,09746.3851,W,012.2,056.2,011005,005.4,E*6C
> AJ0NR-11*>APRS :
> {{D1458,00000,+014,12132
> AJ0NR-11*>APRS :
>
$GPGGA,150125,3821.3634,N,09746.2251,W,2,11,0.8,21707.9,M,-27.0,M,,*79
> AJ0NR-11*>APRS :
>
$GPGGA,150155,3821.4806,N,09746.2596,W,2,11,0.8,21854.1,M,-27.0,M,,*7B
> AJ0NR-11*>APRS :
> {{D1501,00000,+017,12100
> AJ0NR-11*>APRS :
> {{D1502,00000,+017,12085
> AJ0NR-11*>APRS :
> {{D1502,00000,+017,12085
> AJ0NR-11*>APRS :
>
$GPGGA,150325,3821.7022,N,09746.0827,W,2,11,0.8,22281.2,M,-27.0,M,,*74
> AJ0NR-11*>APRS :
> {{D1503,00000,+017,12085
> AJ0NR-11*>APRS :
> {{PTime:hhmm,Burst:m,IAT:C,PriBatt:mV -- Mode 2
> AJ0NR-11*>APRS :
> >Project: Traveler Balloon - www.rckara.org
> AJ0NR-11*>APRS :
>
$GPGGA,150355,3821.7081,N,09746.0269,W,2,11,0.8,22415.1,M,-27.0,M,,*72
> AJ0NR-11*>APRS :
> {{D1503,00000,+017,12085
> AJ0NR-11*>APRS :
>
$GPGGA,150425,3821.7065,N,09746.0087,W,2,11,0.8,22548.4,M,-27.0,M,,*76
> AJ0NR-11*>APRS :
> {{D1504,00000,+017,12085
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> AJ0NR-11*>APRS :
>
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> AJ0NR-11*>APRS :
>
$GPGGA,150555,3821.8525,N,09746.0885,W,2,11,0.8,22992.0,M,-27.0,M,,*7B
> AJ0NR-11*>APRS :
> {{D1505,00000,+017,12069
> AJ0NR-11*>APRS :
> {{D1507,00000,+017,12054
> AJ0NR-11*>APRS :
>
$GPGGA,150755,3822.0210,N,09745.8806,W,2,11,0.8,23567.4,M,-27.0,M,,*70
> AJ0NR-11*>APRS :
> {{D1507,00000,+017,12054
> AJ0NR-11*>APRS :
> {{D1508,00000,+017,12054
> AJ0NR-11*>APRS :
> {{D1508,00000,+017,12054
> AJ0NR-11*>APRS :
> {{PTime:hhmm,Burst:m,IAT:C,PriBatt:mV -- Mode 2
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>
$GPGGA,150955,3821.9007,N,09745.6745,W,2,10,0.9,24114.9,M,-27.0,M,,*7C
> AJ0NR-11*>APRS :
> {{D1510,00000,+017,12038
> AJ0NR-11*>APRS :
> {{D1510,00000,+017,12038
> AJ0NR-11*>APRS :
>
$GPGGA,151125,3821.9459,N,09745.6636,W,2,10,0.8,24632.7,M,-27.0,M,,*74
> AJ0NR-11*>APRS :
>
$GPGGA,151155,3822.0140,N,09745.7123,W,2,10,0.9,24794.8,M,-27.0,M,,*75
> AJ0NR-11*>APRS :
> {{D1511,00000,+018,12022
> AJ0NR-11*>APRS :
>
$GPGGA,151225,3822.1101,N,09745.7578,W,2,09,0.9,24947.2,M,-27.0,M,,*7D
> AJ0NR-11*>APRS :
>
$GPRMC,151227,A,3822.1188,N,09745.7596,W,014.6,351.1,011005,005.4,E*6E
> AJ0NR-11*>APRS :
> {{D1512,00000,+017,12022
> AJ0NR-11*>APRS :
> {{D1512,00000,+017,12022
> AJ0NR-11*>APRS :
>
$GPGGA,151325,3822.2221,N,09745.7325,W,2,08,1.1,25230.0,M,-27.0,M,,*70
> AJ0NR-11*>APRS :
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>
$GPRMC,151327,A,3822.2265,N,09745.7369,W,013.3,318.9,011005,005.4,E*6D
> AJ0NR-11*>APRS :
> {{D1513,00000,+018,12022
> AJ0NR-11*>APRS :
>
$GPGGA,151425,3822.3158,N,09745.7692,W,2,10,0.9,25480.9,M,-27.0,M,,*76
> AJ0NR-11*>APRS :
>
$GPRMC,151427,A,3822.3150,N,09745.7662,W,006.5,113.3,011005,005.4,E*61
> AJ0NR-11*>APRS :
> {{D1514,00000,+018,12022
> AJ0NR-11*>APRS :
> {{PTime:hhmm,Burst:m,IAT:C,PriBatt:mV -- Mode 2
> AJ0NR-11*>APRS :
> >Project: Traveler Balloon - www.rckara.org
> AJ0NR-11*>APRS :
>
$GPGGA,151455,3822.3132,N,09745.7363,W,2,09,1.0,25628.6,M,-27.0,M,,*79
> AJ0NR-11*>APRS :
>
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> AJ0NR-11*>APRS :
> {{D1514,00000,+017,12022
> AJ0NR-11*>APRS :
>
$GPRMC,151527,A,3822.3118,N,09745.7760,W,011.7,303.3,011005,005.4,E*68
> AJ0NR-11*>APRS :
> {{D1515,00000,+017,12007
> AJ0NR-11*>APRS :
> {{D1516,00000,+018,12007
> AJ0NR-11*>APRS :
> {{D1517,00000,+018,11991
> AJ0NR-11*>APRS :
> {{D1517,00000,+018,11991
> AJ0NR-11*>APRS :
>
$GPRMC,151857,A,3822.9354,N,09745.6461,W,002.2,245.9,011005,005.4,E*6F
> AJ0NR-11*>APRS :
> {{D1518,00000,+018,11991
> AJ0NR-11*>APRS :
>
$GPRMC,151927,A,3822.9680,N,09745.6877,W,007.2,292.1,011005,005.4,E*69
> AJ0NR-11*>APRS :
>
$GPRMC,151957,A,3822.9867,N,09745.7322,W,009.1,335.6,011005,005.4,E*65
> AJ0NR-11*>APRS :
> {{D1519,00000,+018,11991
> AJ0NR-11*>APRS :
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$GPRMC,152027,A,3823.0212,N,09745.7385,W,013.3,016.5,011005,005.4,E*6D
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
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$GPRMC,152127,A,3823.1735,N,09745.6621,W,007.8,034.7,011005,005.4,E*6B
> AJ0NR-11*>APRS :
> {{D1521,00000,+018,11991
> AJ0NR-11*>APRS :
>
$GPRMC,152157,A,3823.1985,N,09745.6125,W,009.6,027.8,011005,005.4,E*67
> AJ0NR-11*>APRS :
> {{D1522,00000,+018,11991
> AJ0NR-11*>APRS :
>
$GPRMC,152257,A,3823.3738,N,09745.6927,W,016.9,356.6,011005,005.4,E*6E
> AJ0NR-11*>APRS :
> {{D1522,00000,+018,11975
> AJ0NR-11*>APRS :
>
$GPRMC,152327,A,3823.4631,N,09745.6836,W,009.4,335.6,011005,005.4,E*60
> AJ0NR-11*>APRS :
> {{D1523,00000,+018,11975
> AJ0NR-11*>APRS :
> {{D1523,00000,+018,11975
> AJ0NR-11*>APRS :
>
$GPRMC,152427,A,3823.6975,N,09745.7149,W,021.9,354.7,011005,005.4,E*6B
> AJ0NR-11*>APRS :
> {{D1524,00000,+018,11975
> AJ0NR-11*>APRS :
> {{D1525,00000,+019,11963
> AJ0NR-11*>APRS :
> {{PTime:hhmm,Burst:m,IAT:C,PriBatt:mV -- Mode 2
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> {{D1526,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPRMC,152657,A,3824.0930,N,09745.5467,W,005.8,066.9,011005,005.4,E*6E
> AJ0NR-11*>APRS :
> {{D1526,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPRMC,152727,A,3824.1301,N,09745.4862,W,010.3,056.5,011005,005.4,E*69
> AJ0NR-11*>APRS :
> {{D1527,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPRMC,152757,A,3824.2150,N,09745.4106,W,013.9,032.5,011005,005.4,E*6B
> AJ0NR-11*>APRS :
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> {{D1527,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,152825,3824.2961,N,09745.3459,W,2,10,0.8,29852.0,M,-27.0,M,,*7A
> AJ0NR-11*>APRS :
>
$GPRMC,152827,A,3824.3026,N,09745.3406,W,014.5,033.8,011005,005.4,E*67
> AJ0NR-11*>APRS :
> {{D1528,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPRMC,152857,A,3824.3839,N,09745.2618,W,005.3,007.9,011005,005.4,E*6A
> AJ0NR-11*>APRS :
> {{D1528,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,152925,3824.4201,N,09745.2490,W,2,10,0.9,30155.5,M,-27.0,M,,*76
> AJ0NR-11*>APRS :
> {{D1529,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,152955,3824.4964,N,09745.2527,W,2,10,0.8,30324.4,M,-27.0,M,,*70
> AJ0NR-11*>APRS :
>
$GPRMC,152957,A,3824.5031,N,09745.2505,W,011.3,012.9,011005,005.4,E*63
> AJ0NR-11*>APRS :
> {{D1529,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153025,3824.5569,N,09745.2644,W,2,10,0.8,30502.4,M,-27.0,M,,*7B
> AJ0NR-11*>APRS :
>
$GPRMC,153027,A,3824.5569,N,09745.2682,W,005.8,262.0,011005,005.4,E*6A
> AJ0NR-11*>APRS :
> {{D1530,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153055,3824.5871,N,09745.3197,W,2,10,0.9,30687.4,M,-27.0,M,,*7F
> AJ0NR-11*>APRS :
>
$GPRMC,153057,A,3824.5898,N,09745.3237,W,008.5,329.3,011005,005.4,E*68
> AJ0NR-11*>APRS :
> {{D1530,00000,+019,11963
> AJ0NR-11*>APRS :
> {{PTime:hhmm,Burst:m,IAT:C,PriBatt:mV -- Mode 2
> AJ0NR-11*>APRS :
> >Project: Traveler Balloon - www.rckara.org
> AJ0NR-11*>APRS :
>
$GPGGA,153125,3824.6537,N,09745.3669,W,2,10,0.8,30875.3,M,-27.0,M,,*76

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> AJ0NR-11*>APRS :
>
$GPRMC,153127,A,3824.6582,N,09745.3694,W,007.4,333.9,011005,005.4,E*69
> AJ0NR-11*>APRS :
> {{D1531,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153155,3824.7372,N,09745.3844,W,2,10,0.8,31056.5,M,-27.0,M,,*78
> AJ0NR-11*>APRS :
>
$GPRMC,153157,A,3824.7433,N,09745.3823,W,012.3,013.8,011005,005.4,E*65
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
$GPGGA,153225,3824.7898,N,09745.3455,W,2,11,0.8,31227.0,M,-27.0,M,,*7F
> AJ0NR-11*>APRS :
>
$GPRMC,153227,A,3824.7885,N,09745.3433,W,004.0,138.3,011005,005.4,E*6A
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
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$GPGGA,153255,3824.8078,N,09745.3019,W,2,11,0.8,31379.5,M,-27.0,M,,*72
> AJ0NR-11*>APRS :
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$GPRMC,153257,A,3824.8050,N,09745.3037,W,004.6,130.9,011005,005.4,E*66
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
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> AJ0NR-11*>APRS :
> {{D1533,00000,+019,11963
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>
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> AJ0NR-11*>APRS :
>
$GPRMC,153427,A,3824.9407,N,09745.0528,W,004.3,016.1,011005,005.4,E*60
> AJ0NR-11*>APRS :
> {{D1534,00000,+019,11963
> AJ0NR-11*>APRS :
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$GPGGA,153455,3825.0097,N,09745.0072,W,1,12,0.9,31997.8,M,-27.0,M,,*74
> AJ0NR-11*>APRS :
>
$GPRMC,153457,A,3825.0131,N,09745.0065,W,007.2,016.4,011005,005.4,E*64
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
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> AJ0NR-11*>APRS :
>
$GPRMC,153527,A,3825.0916,N,09744.9773,W,013.2,019.2,011005,005.4,E*6B
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
$GPGGA,153555,3825.1469,N,09744.9378,W,2,11,0.8,32337.9,M,-27.0,M,,*73
> AJ0NR-11*>APRS :
>
$GPRMC,153557,A,3825.1496,N,09744.9313,W,009.9,060.5,011005,005.4,E*63
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
$GPGGA,153625,3825.1906,N,09744.8458,W,2,12,0.8,32507.2,M,-27.0,M,,*7A
> AJ0NR-11*>APRS :
>
$GPRMC,153627,A,3825.1936,N,09744.8409,W,007.7,042.3,011005,005.4,E*6B
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
> >Project: Traveler Balloon - www.rckara.org
> AJ0NR-11*>APRS :
>
$GPGGA,153655,3825.2175,N,09744.7183,W,2,11,0.9,32661.4,M,-27.0,M,,*79
> AJ0NR-11*>APRS :
>
$GPRMC,153657,A,3825.2190,N,09744.7146,W,005.5,063.9,011005,005.4,E*63
> AJ0NR-11*>APRS :
> {{D1536,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153725,3825.2750,N,09744.6527,W,2,11,0.9,32803.2,M,-27.0,M,,*79
> AJ0NR-11*>APRS :
>
$GPRMC,153727,A,3825.2780,N,09744.6533,W,006.1,357.8,011005,005.4,E*67
> AJ0NR-11*>APRS :
> {{D1537,00000,+019,11963
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> AJ0NR-11*>APRS :
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$GPGGA,153755,3825.3290,N,09744.6008,W,2,11,0.8,32942.0,M,-27.0,M,,*79
> AJ0NR-11*>APRS :
>
$GPRMC,153757,A,3825.3309,N,09744.5996,W,004.3,026.8,011005,005.4,E*61
> AJ0NR-11*>APRS :
> {{D1537,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153825,3825.3805,N,09744.5000,W,2,10,1.2,33083.5,M,-27.0,M,,*76
> AJ0NR-11*>APRS :
>
$GPRMC,153827,A,3825.3825,N,09744.4979,W,004.6,038.4,011005,005.4,E*6A
> AJ0NR-11*>APRS :
> {{D1538,00000,+019,11963
> AJ0NR-11*>APRS :
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$GPGGA,153855,3825.3979,N,09744.4072,W,2,11,1.0,33234.4,M,-27.0,M,,*73
> AJ0NR-11*>APRS :
>
$GPRMC,153857,A,3825.3964,N,09744.4026,W,007.6,112.6,011005,005.4,E*62
> AJ0NR-11*>APRS :
> {{D1538,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153925,3825.3903,N,09744.2842,W,2,12,0.8,33404.3,M,-27.0,M,,*7D
> AJ0NR-11*>APRS :
>
$GPRMC,153927,A,3825.3908,N,09744.2799,W,006.3,086.2,011005,005.4,E*67
> AJ0NR-11*>APRS :
> {{D1539,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,153955,3825.4363,N,09744.2016,W,2,12,0.8,33585.3,M,-27.0,M,,*70
> AJ0NR-11*>APRS :
>
$GPRMC,153957,A,3825.4431,N,09744.2000,W,011.7,004.0,011005,005.4,E*6D
> AJ0NR-11*>APRS :
> {{D1539,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,154025,3825.5515,N,09744.1152,W,2,12,0.8,33765.9,M,-27.0,M,,*7B
> AJ0NR-11*>APRS :
>
$GPRMC,154027,A,3825.5599,N,09744.1082,W,017.1,029.3,011005,005.4,E*63
> AJ0NR-11*>APRS :
> {{D1540,00000,+019,11963
> AJ0NR-11*>APRS :
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$GPGGA,154055,3825.6610,N,09743.9900,W,2,11,1.1,33364.8,M,-27.0,M,,*76
> AJ0NR-11*>APRS :
> {{D1540,00000,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,154125,3825.6972,N,09743.9062,W,2,12,0.8,31853.9,M,-27.0,M,,*71
> AJ0NR-11*>APRS :
>
$GPRMC,154127,A,3825.6989,N,09743.9013,W,008.3,066.8,011005,005.4,E*67
> AJ0NR-11*>APRS :
> {{D1541,33858,+019,11963
> AJ0NR-11*>APRS :
>
$GPGGA,154155,3825.7592,N,09743.8728,W,1,12,0.8,30405.2,M,-27.0,M,,*7B
> AJ0NR-11*>APRS :
> {{D1541,33858,+020,11916
> AJ0NR-11*>APRS :
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> AJ0NR-11*>APRS :
>
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> AJ0NR-11*>APRS :
> {{D1542,33858,+019,11900
> AJ0NR-11*>APRS :
> {{D1542,33858,+020,11900
> AJ0NR-11*>APRS :
> {{D1543,33858,+020,11900
> AJ0NR-11*>APRS :
>
$GPRMC,154357,A,3826.0504,N,09743.7752,W,006.2,353.4,011005,005.4,E*64
> AJ0NR-11*>APRS :
>
$GPGGA,154425,3826.1314,N,09743.8177,W,2,10,1.0,24480.1,M,-27.0,M,,*7B
> AJ0NR-11*>APRS :
> {{D1544,33858,+020,11900
> AJ0NR-11*>APRS :
>
$GPGGA,154455,3826.1557,N,09743.8189,W,2,08,1.1,23611.9,M,-27.0,M,,*71
> AJ0NR-11*>APRS :
>
$GPGGA,154555,3826.2385,N,09743.7477,W,2,11,1.0,21857.3,M,-27.0,M,,*7C
> AJ0NR-11*>APRS :
>
$GPRMC,154557,A,3826.2456,N,09743.7474,W,013.5,358.3,011005,005.4,E*6E
> AJ0NR-11*>APRS :
> {{D1545,33858,+020,11900
> AJ0NR-11*>APRS :
> {{D1546,33858,+019,11885
> AJ0NR-11*>APRS :
>
```

$GPRMC,154657,A,3826.2857,N,09743.6700,W,013.9,046.7,011005,005.4,E*65
> AJ0NR-11*>APRS :
>
$GPRMC,154757,A,3826.4523,N,09743.5114,W,021.0,030.3,011005,005.4,E*61
>
>
> [This message contained attachments]
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> Yahoo! Groups Links
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>
> GPSL-unsubscribe@yahoogroups.com
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1720. Fw: Near Space Competition

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 04:12:10 UTC
From: Gene Harlan
Topic: 1720 Message: 1720

Trying to get a message to Paul, but it keeps getting rejected. See below Paul.

Also, any balloon articles coming for the Fall issue?

Gene - WB9MMM
ATVQ

----- Original Message -----
From: "Gene Harlan" <atvq@...>
To: <VERHAP@...>
Sent: Friday, September 30, 2005 3:34 PM
Subject: Re: Near Space Competition

You know, I never heard who the winners were. Let me know and I will get them added to the mailing list.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: "Gene Harlan" <gharlan@...>
To: <VERHAP@...>
Sent: Friday, January 28, 2005 2:23 PM
Subject: Re: Near Space Competition

What the heck, I'll do one for each of the six winners!

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: <VERHAP@...>
To: "Gene Harlan" <gharlan@...>
Sent: 28 January 2005 Friday 12:09 PM
Subject: Re: Near Space Competition

We'll announce the competitions to the public next month. At the end of the year we'l
announce the winners and send their awards. So the subscription would be for
2006.

Here's the current competitions.

Maximum altitude (current record 120,522ft 20Mar99)
Longest flight great circle distance (current record 1201.18mi 18Dec04)
Longest flight in time (current record 22h42m11s 18Dec04)
Telemetry great circle range >50Mhz (current record 479.5mi 17Jul04)
Telemetry great circle range <50MHz (current record 2,437mi 15Nov00)
QSO great circle distance (current record 647mi 25Oct03)

So you have a preference for your sponsorship?

Thanks for helping out,
Paul

> I would love to. Should I send it to you and when do you need it by?
>
> Gene - WB9MMM
>
> ----- Original Message -----
> From: <VERHAP@...>
> To: "Gene Harlan" <gharlan@...>
> Sent: 28 January 2005 Friday 9:33 AM
> Subject: Re: Near Space Competition
>
>
> Sorry about the email problem. They're converting us to a new email system and our
> email crashes every few days.
>
> Could you provide a free subscription to a winner of one of the competitions?
>
> Paul
>
> > I've tried to respond, but my email to you is getting rejected. I am trying this from my work account to see if it makes a
> > difference.
> >
> > If it goes through, I am sure we can help. What are you looking for? $$$?
> >
> > Gene - WB9MMM
> >
> > ----- Original Message -----
> > From: <VERHAP@...>
> > To: "Gene Harlan" <atvq@...>

> > Sent: 26 January 2005 Wednesday 11:25 AM
> > Subject: Near Space Competition
> >
> >
> > Gene, we're designing some competitions for ballooning this year. Would
ATV Q be
> > interested in being a sponsor of a competiton?
> >
> > Paul
> >
>
>
>

1721. Re: [GPSL] Fw: Near Space Competition

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 16:16:22 UTC
From: Zack Clobes
Topic: 1720 Message: 1721

I've put out three this year.. it's someone else's turn..

Zack Clobes, W0ZC
Project: Traveler

Gene Harlan wrote:

>Trying to get a message to Paul, but it keeps getting rejected. See below
>Paul.
>
>Also, any balloon articles coming for the Fall issue?
>
>Gene - WB9MMM
>ATVQ
>
>
>----- Original Message -----
>From: "Gene Harlan" <atvq@...>
>To: <VERHAP@...>
>Sent: Friday, September 30, 2005 3:34 PM
>Subject: Re: Near Space Competition
>
>
>You know, I never heard who the winners were. Let me know and I will get
>them added to the mailing list.
>
>Gene Harlan - WB9MMM
>NEW - Name Tags by Gene
>Harlan Technologies - publisher of Amateur Television Quarterly
>ATVQ@...
>815-398-2683 - voice
>815-398-2688 - fax
>http://www.hampubs.com
>
>
>----- Original Message -----
>From: "Gene Harlan" <gharlan@...>
>To: <VERHAP@...>
>Sent: Friday, January 28, 2005 2:23 PM
>Subject: Re: Near Space Competition
>
>
>What the heck, I'll do one for each of the six winners!
>
>Gene Harlan - WB9MMM
>NEW - Name Tags by Gene

>Harlan Technologies - publisher of Amateur Television Quarterly
>ATVQ@...
>815-398-2683 - voice
>815-398-2688 - fax
>http://www.hampubs.com
>
>
>----- Original Message -----
>From: <VERHAP@...>
>To: "Gene Harlan" <gharlan@...>
>Sent: 28 January 2005 Friday 12:09 PM
>Subject: Re: Near Space Competition
>
>
>We'll announce the competitions to the public next month. At the end of the
>year we'l
>announce the winners and send their awards. So the subscription would be
>for
>2006.
>
>Here's the current competitions.
>
>Maximum altitude (current record 120,522ft 20Mar99)
>Longest flight great circle distance (current record 1201.18mi 18Dec04)
>Longest flight in time (current record 22h42m11s 18Dec04)
>Telemetry great circle range >50Mhz (current record 479.5mi 17Jul04)
>Telemetry great circle range <50MHz (current record 2,437mi 15Nov00)
>QSO great circle distance (current record 647mi 25Oct03)
>
>So you have a preference for your sponsorship?
>
>Thanks for helping out,
>Paul
>
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>
>
>>I would love to. Should I send it to you and when do you need it by?
>>
>>Gene - WB9MMM
>>
>>----- Original Message -----
>>From: <VERHAP@...>
>>To: "Gene Harlan" <gharlan@...>
>>Sent: 28 January 2005 Friday 9:33 AM
>>Subject: Re: Near Space Competition
>>
>>
>>Sorry about the email problem. They're converting us to a new email

>>
>>
>system and our
>
>
>>email crashes every few days.
>>
>>Could you provide a free subscription to a winner of one of the
>>
>>
>competitions?
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>
>>Paul
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>>
>>>I've tried to respond, but my email to you is getting rejected. I am
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>trying this from my work account to see if it makes a
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>
>>>difference.
>>>
>>>If it goes through, I am sure we can help. What are you looking for?
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>$$$?
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>
>>>Gene - WB9MMM
>>>
>>>----- Original Message -----
>>>From: <VERHAP@...>
>>>To: "Gene Harlan" <atvq@...>
>>>Sent: 26 January 2005 Wednesday 11:25 AM
>>>Subject: Near Space Competition
>>>
>>>
>>>Gene, we're designing some competitions for ballooning this year. Would
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>ATV Q be
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>>>interested in being a sponsor of a competiton?
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>>>Paul
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>Yahoo! Groups Links
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1722. Re: [GPSL] Fw: Near Space Competition

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 16:19:05 UTC
From: PAUL VERHAGE
Topic: 1720 Message: 1722

I can probably do something, if no one else was planning.

Mark, Mike, or Ralph, do you have a topic to write about?

Anyone else?

Paul

>>> zclobes@... 10/04/05 10:16 AM >>>
I've put out three this year.. it's someone else's turn..

Zack Clobes, W0ZC
Project: Traveler

Gene Harlan wrote:

>Trying to get a message to Paul, but it keeps getting rejected. See below
>Paul.
>
>Also, any balloon articles coming for the Fall issue?
>
>Gene - WB9MMM
>ATVQ
>
>
>----- Original Message -----
>From: "Gene Harlan" <atvq@hampubs.com>
>To: <VERHAP@...>
>Sent: Friday, September 30, 2005 3:34 PM
>Subject: Re: Near Space Competition
>
>
>You know, I never heard who the winners were. Let me know and I will get
>them added to the mailing list.
>
>Gene Harlan - WB9MMM
>NEW - Name Tags by Gene
>Harlan Technologies - publisher of Amateur Television Quarterly
>ATVQ@...
>815-398-2683 - voice
>815-398-2688 - fax
>http://www.hampubs.com
>
>
>----- Original Message -----
>From: "Gene Harlan" <gharlan@...>
>To: <VERHAP@...>

>Sent: Friday, January 28, 2005 2:23 PM
>Subject: Re: Near Space Competition
>
>
>What the heck, I'll do one for each of the six winners!
>
>Gene Harlan - WB9MMM
>NEW - Name Tags by Gene
>Harlan Technologies - publisher of Amateur Television Quarterly
>ATVQ@...
>815-398-2683 - voice
>815-398-2688 - fax
>http://www.hampubs.com
>
>
>----- Original Message -----
>From: <VERHAP@...>
>To: "Gene Harlan" <gharlan@...>
>Sent: 28 January 2005 Friday 12:09 PM
>Subject: Re: Near Space Competition
>
>
>We'll announce the competitions to the public next month. At the end of the
>year we'l
>announce the winners and send their awards. So the subscription would be
>for
>2006.
>
>Here's the current competitions.
>
>Maximum altitude (current record 120,522ft 20Mar99)
>Longest flight great circle distance (current record 1201.18mi 18Dec04)
>Longest flight in time (current record 22h42m11s 18Dec04)
>Telemetry great circle range >50Mhz (current record 479.5mi 17Jul04)
>Telemetry great circle range <50MHz (current record 2,437mi 15Nov00)
>QSO great circle distance (current record 647mi 25Oct03)
>
>So you have a preference for your sponsorship?
>
>Thanks for helping out,
>Paul
>
>
>
>
>
>
>>I would love to. Should I send it to you and when do you need it by?
>>
>>Gene - WB9MMM
>>

>>----- Original Message -----
>>From: <VERHAP@...>
>>To: "Gene Harlan" <gharlan@...>
>>Sent: 28 January 2005 Friday 9:33 AM
>>Subject: Re: Near Space Competition
>>
>>
>>Sorry about the email problem. They're converting us to a new email
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>>
>system and our
>
>
>>email crashes every few days.
>>
>>Could you provide a free subscription to a winner of one of the
>>
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>competitions?
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>
>>Paul
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>>
>>>I've tried to respond, but my email to you is getting rejected. I am
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>trying this from my work account to see if it makes a
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>
>>>difference.
>>>
>>>If it goes through, I am sure we can help. What are you looking for?
>>>
>>>
>$$$?
>
>
>>>Gene - WB9MMM
>>>
>>>----- Original Message -----
>>>From: <VERHAP@...>
>>>To: "Gene Harlan" <atvq@...>
>>>Sent: 26 January 2005 Wednesday 11:25 AM
>>>Subject: Near Space Competition
>>>
>>>
>>>Gene, we're designing some competitions for ballooning this year. Would
>>>

>>>
>ATV Q be
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>>>interested in being a sponsor of a competiton?
>>>
>>>Paul
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>Yahoo! Groups Links
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1723. Re: [GPSL] Fw: Near Space Competition

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 16:38:52 UTC
From: n9xtn@cox.net
Topic: 1720 Message: 1723

Maybe the new group on the block (CNNSP) can write one on their first year?

I'm not finding time to do a heckuva lot related to balloons these last 2-3 months, except kibitz by e-mail when I should be doing other things.

- Mark

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
Date: Tuesday, October 4, 2005 11:19 am
Subject: Re: [GPSL] Fw: Near Space Competition

> I can probably do something, if no one else was planning.
>
> Mark, Mike, or Ralph, do you have a topic to write about?
>
> Anyone else?
>
> Paul
>
> >>> zclobes@... 10/04/05 10:16 AM >>>
> I've put out three this year.. it's someone else's turn..
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> Gene Harlan wrote:
>
> >Trying to get a message to Paul, but it keeps getting rejected.
> See below
> >Paul.
> >
> >Also, any balloon articles coming for the Fall issue?
> >
> >Gene - WB9MMM
> >ATVQ
> >
> >
> >----- Original Message -----
> >From: "Gene Harlan" <atvq@...>
> >To: <VERHAP@...>
> >Sent: Friday, September 30, 2005 3:34 PM
> >Subject: Re: Near Space Competition
> >

> >
> >You know, I never heard who the winners were. Let me know and I
> will get
> >them added to the mailing list.
> >
> >Gene Harlan - WB9MMM
> >NEW - Name Tags by Gene
> >Harlan Technologies - publisher of Amateur Television Quarterly
> >ATVQ@...
> >815-398-2683 - voice
> >815-398-2688 - fax
> >http://www.hampubs.com
> >
> >
> >----- Original Message -----
> >From: "Gene Harlan" <gharlan@...>
> >To: <VERHAP@...>
> >Sent: Friday, January 28, 2005 2:23 PM
> >Subject: Re: Near Space Competition
> >
> >
> >What the heck, I'll do one for each of the six winners!
> >
> >Gene Harlan - WB9MMM
> >NEW - Name Tags by Gene
> >Harlan Technologies - publisher of Amateur Television Quarterly
> >ATVQ@...
> >815-398-2683 - voice
> >815-398-2688 - fax
> >http://www.hampubs.com
> >
> >
> >----- Original Message -----
> >From: <VERHAP@...>
> >To: "Gene Harlan" <gharlan@...>
> >Sent: 28 January 2005 Friday 12:09 PM
> >Subject: Re: Near Space Competition
> >
> >
> >We'll announce the competitions to the public next month. At the
> end of the
> >year we'l
> >announce the winners and send their awards. So the subscription
> would be
> >for
> >2006.
> >
> >Here's the current competitions.
> >
> >Maximum altitude (current record 120,522ft 20Mar99)

> >Longest flight great circle distance (current record 1201.18mi
> 18Dec04)>Longest flight in time (current record 22h42m11s 18Dec04)
> >Telemetry great circle range >50Mhz (current record 479.5mi 17Jul04)
> >Telemetry great circle range <50MHz (current record 2,437mi 15Nov00)
> >QSO great circle distance (current record 647mi 25Oct03)
> >
> >So you have a preference for your sponsorship?
> >
> >Thanks for helping out,
> >Paul
> >
> >
> >
> >
> >
> >>I would love to. Should I send it to you and when do you need it
by?
> >>
> >>Gene - WB9MMM
> >>
> >>----- Original Message -----
> >>From: <VERHAP@...>
> >>To: "Gene Harlan" <gharlan@...>
> >>Sent: 28 January 2005 Friday 9:33 AM
> >>Subject: Re: Near Space Competition
> >>
> >>
> >>Sorry about the email problem. They're converting us to a new
email
> >>
> >>
> >>system and our
> >>
> >>
> >>email crashes every few days.
> >>
> >>Could you provide a free subscription to a winner of one of the
> >>
> >>
> >>competitions?
> >>
> >>
> >>Paul
> >>
> >>
> >>
> >>>>>I've tried to respond, but my email to you is getting rejected.
> I am
> >>>
> >>>

> >trying this from my work account to see if it makes a
> >
> >
> >>>difference.
> >>>
> >>>If it goes through, I am sure we can help. What are you looking
> for?>>>
> >>>
> >$$$?
> >
> >
> >>>Gene - WB9MMM
> >>>
> >>>----- Original Message -----
> >>>From: <VERHAP@...>
> >>>To: "Gene Harlan" <atvq@...>
> >>>Sent: 26 January 2005 Wednesday 11:25 AM
> >>>Subject: Near Space Competition
> >>>
> >>>
> >>>Gene, we're designing some competitions for ballooning this
> year. Would
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> >>>
> >ATV Q be
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> >>>interested in being a sponsor of a competiton?
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> >>>Paul
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> Get fast access to your favorite Yahoo! Groups. Make Yahoo! your
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1724. ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 17:29:53 UTC
From: PAUL VERHAGE
Topic: 317 Message: 1724

Is CNNSP interested in writing about their group and experience?

Don, are you interested in doing an article on the digital camcorder HABITAT used at GPSL 2005?

Paul

1725. Re: [GPSL] ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 18:30:37 UTC
From: Roger Hammond
Topic: 317 Message: 1725

> Is CNNSP interested in writing about their group and experience?

I think I could put something together.
How soon would it need to be completed?
Let me know any other specifics...length, photos, etc.

Rog (KC0MWM)
CNNSP

>
> Don, are you interested in doing an article on the digital camcorder HABITAT used at GPSL 2005?
>
> Paul
>
>
>
>
> Yahoo! Groups Links
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1726. Re: [GPSL] Fw: Near Space Competition

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 18:39:43 UTC
From: Mike Manes
Topic: 1720 Message: 1726

I've solicited EOSS members for a hack to do a piece on
EOSS-100 / 15th Anniversary bash. If our 7000 gm altitude shot
works as hoped later this month, maybe something on that
as well.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
>
> I can probably do something, if no one else was planning.
>
> Mark, Mike, or Ralph, do you have a topic to write about?
>
> Anyone else?
>
> Paul
>
> >>> zclobes@... 10/04/05 10:16 AM >>>
> I've put out three this year.. it's someone else's turn..
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> Gene Harlan wrote:
>
> >Trying to get a message to Paul, but it keeps getting rejected. See below
> >Paul.
> >
> >Also, any balloon articles coming for the Fall issue?
> >
> >Gene - WB9MMM
> >ATVQ
> >
> >
> >----- Original Message -----
> >From: "Gene Harlan" <atvq@...>
> >To: <VERHAP@...>
> >Sent: Friday, September 30, 2005 3:34 PM
> >Subject: Re: Near Space Competition
> >
> >
> >You know, I never heard who the winners were. Let me know and I will get
> >them added to the mailing list.
> >
> >Gene Harlan - WB9MMM

> >NEW - Name Tags by Gene
> >Harlan Technologies - publisher of Amateur Television Quarterly
> >ATVQ@...
> >815-398-2683 - voice
> >815-398-2688 - fax
> >http://www.hampubs.com
> >
> >
> >----- Original Message -----
> >From: "Gene Harlan" <gharlan@...>
> >To: <VERHAP@...>
> >Sent: Friday, January 28, 2005 2:23 PM
> >Subject: Re: Near Space Competition
> >
> >
> >What the heck, I'll do one for each of the six winners!
> >
> >Gene Harlan - WB9MMM
> >NEW - Name Tags by Gene
> >Harlan Technologies - publisher of Amateur Television Quarterly
> >ATVQ@...
> >815-398-2683 - voice
> >815-398-2688 - fax
> >http://www.hampubs.com
> >
> >
> >----- Original Message -----
> >From: <VERHAP@...>
> >To: "Gene Harlan" <gharlan@...>
> >Sent: 28 January 2005 Friday 12:09 PM
> >Subject: Re: Near Space Competition
> >
> >
> >We'll announce the competitions to the public next month. At the end of the
> >year we'l
> >announce the winners and send their awards. So the subscription would be
> >for
> >2006.
> >
> >Here's the current competitions.
> >
> >Maximum altitude (current record 120,522ft 20Mar99)
> >Longest flight great circle distance (current record 1201.18mi 18Dec04)
> >Longest flight in time (current record 22h42m11s 18Dec04)
> >Telemetry great circle range >50Mhz (current record 479.5mi 17Jul04)
> >Telemetry great circle range <50MHz (current record 2,437mi 15Nov00)
> >QSO great circle distance (current record 647mi 25Oct03)
> >
> >So you have a preference for your sponsorship?
> >

> >Thanks for helping out,
> >Paul
> >
> >
> >
> >
> >
> >>I would love to. Should I send it to you and when do you need it by?
> >>
> >>Gene - WB9MMM
> >>
> >>----- Original Message -----
> >>From: <VERHAP@...>
> >>To: "Gene Harlan" <gharlan@...>
> >>Sent: 28 January 2005 Friday 9:33 AM
> >>Subject: Re: Near Space Competition
> >>
> >>
> >>Sorry about the email problem. They're converting us to a new email
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> >>
> >>system and our
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> >>
> >>email crashes every few days.
> >>
> >>Could you provide a free subscription to a winner of one of the
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> >>competitions?
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> >>Paul
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> >>
> >>>I've tried to respond, but my email to you is getting rejected. I am
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> >>>
> >>>trying this from my work account to see if it makes a
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> >>>
> >>>difference.
> >>>
> >>>If it goes through, I am sure we can help. What are you looking for?
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> >>>$$$?
> >>>
> >>>

> >>>Gene - WB9MMM
> >>>
> >>>----- Original Message -----
> >>>From: <VERHAP@...>
> >>>To: "Gene Harlan" <atvq@...>
> >>>Sent: 26 January 2005 Wednesday 11:25 AM
> >>>Subject: Near Space Competition
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> >>>
> >>>Gene, we're designing some competitions for ballooning this year. Would
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> >>>
> >>>ATV Q be
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> >>>interested in being a sponsor of a competiton?
> >>>
> >>>Paul
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1727. Re: [GPSL] ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 19:38:15 UTC
From: Gene Harlan
Topic: 317 Message: 1727

Rog,

We are actually past the dealine as it was October 1st. Any chance to have something by Saturday the 8th?

A couple/three pages would be good. Pictures are a plus (JPG will work). Text can be Word or almost any other format. If pictures are included in the Word document, please send them seperately as well.

Let me know if this is possible.

Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: "Roger Hammond" <rahammond@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, October 04, 2005 1:30 PM
Subject: Re: [GPSL] ATVQ Article

> Is CNNSP interested in writing about their group and experience?

I think I could put something together.
How soon would it need to be completed?
Let me know any other specifics...length, photos, etc.

Rog (KC0MWM)
CNNSP

>
> Don, are you interested in doing an article on the digital camcorder HABITAT used at GPSL 2005?
>
> Paul
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> Yahoo! Groups Links
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Yahoo! Groups Links

1728. Re: [GPSL] ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-04 19:42:08 UTC
From: Roger Hammond
Topic: 317 Message: 1728

Gene,

Just sent you an email.
I'll get it done in the next night or two.
Thanks for the opportunity.

Rog - KC0MWM

>
> From: "Gene Harlan" <atvq@...>
> Date: 2005/10/04 Tue PM 02:38:15 CDT
> To: <GPSL@yahoogroups.com>
> Subject: Re: [GPSL] ATVQ Article
>
> Rog,
>
> We are actually past the dealine as it was October 1st. Any chance to have
> something by Saturday the 8th?
>
> A couple/three pages would be good. Pictures are a plus (JPG will work).
> Text can be Word or almost any other format. If pictures are included in the
> Word document, please send them seperately as well.
>
> Let me know if this is possible.
>
> Thanks.
>
> Gene Harlan - WB9MMM
> NEW - Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> ATVQ@...
> 815-398-2683 - voice
> 815-398-2688 - fax
> http://www.hampubs.com
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> ----- Original Message -----
> From: "Roger Hammond" <rahammond@...>
> To: <GPSL@yahoogroups.com>
> Sent: Tuesday, October 04, 2005 1:30 PM
> Subject: Re: [GPSL] ATVQ Article
>
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> > Is CNNSP interested in writing about their group and experience?
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> I think I could put something together.

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> > Don, are you interested in doing an article on the digital camcorder
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1729. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-05 00:04:44 UTC
From: Hank Riley
Topic: 1710 Message: 1729

Zack,

Could you describe your temperature sensor for us?
Size, color, whether enclosed or shaded from sun.

Links to pictures if available, too.

Hank

Yahoo! Mail - PC Magazine Editors' Choice 2005
http://mail.yahoo.com

1730. Re: [GPSL] Outside Air Temp vs. Altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-05 00:33:56 UTC
From: Zack Clobes
Topic: 1710 Message: 1730

Uhhhh.... I dunno. That was four years ago.. :-)

I'm using the ?LM-35CTZ? (or thereabouts) temp sensor. For external temps, I was using the one rated down to -55C. As I recall, I put the whole sensor including the solder joints into a sleeve of black heat-shrink.

The sensor was designed to just hang from the three wires, probably out of the lid, but I don't recall precisely. My guess is that it was exposed to sunlight.

Zack Clobes, W0ZC
Project: Traveler

Hank Riley wrote:

>Zack,
>
>Could you describe your temperature sensor for us?
>Size, color, whether enclosed or shaded from sun.
>
>Links to pictures if available, too.
>
>Hank
>
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>_________________________________
>Yahoo! Mail - PC Magazine Editors' Choice 2005
>http://mail.yahoo.com
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>Yahoo! Groups Links
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1731. Re: [GPSL] ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-05 18:03:35 UTC
From: Don KA0JLF
Topic: 317 Message: 1731

Sorry, I haven't been keeping up with the mail. I just saw this, home on a sick day, after seeing Gene's reply to Roger.

I had planned on this, but got sidetracked - isn't that a first - I'll try to get this done and to Gene before the end of this week.

I've actually got some new info, and more video on the web site. Gene is it okay if I put the link in the article, since the files are video and kind of large. ;-) I do have a few captured frames for the artice.

Thanks!
Don

--- PAUL VERHAGE <paul.verhage@...>
wrote:

...
>
> Don, are you interested in doing an article on the
> digital camcorder HABITAT used at GPSL 2005?
>
> Paul

Yahoo! Mail - PC Magazine Editors' Choice 2005
http://mail.yahoo.com

1732. Re: [GPSL] ATVQ Article

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-05 20:04:04 UTC
From: Gene Harlan
Topic: 317 Message: 1732

That is fine. Hope you get feeling better.

Gene - WB9MMM

----- Original Message -----
From: "Don KA0JLF" <ka0jlf@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, October 05, 2005 1:03 PM
Subject: Re: [GPSL] ATVQ Article

Sorry, I haven't been keeping up with the mail. I just
saw this, home on a sick day, after seeing Gene's
reply to Roger.

I had planned on this, but got sidetracked - isn't
that a first - I'll try to get this done and to Gene
before the end of this week.

I've actually got some new info, and more video on the
web site. Gene is it okay if I put the link in the
article, since the files are video and kind of large.
;-) I do have a few captured frames for the artice.

Thanks!
Don

--- PAUL VERHAGE <paul.verhage@...>
wrote:

...
>
> Don, are you interested in doing an article on the
> digital camcorder HABITAT used at GPSL 2005?
>
> Paul

_____
Yahoo! Mail - PC Magazine Editors' Choice 2005
http://mail.yahoo.com

Yahoo! Groups Links

1733. ANSR-26 a GO!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 03:55:40 UTC
From: kd7lmo
Topic: 1733 Message: 1733

The ANSR-26 High Altitude Balloon flight is a go for 8:00 AM MST (1500 UTC), Saturday, October 8th. The following is the payload frequency plan:

Cross Band NB-FM Voice Repeater
Input: 145.560 MHz/162.2 Hz PL tone
Output: 445.525 MHz

APRS when repeater not in use on 445.950 MHz at 10, 20, 40, and 50 seconds UTC time via KD7LMO-11

Landing prediction after burst at 15 and 45 seconds UTC time via KD7LMO-0

Linked to IRLP reflector 9255 * See Notes below

Pico Beacon APRS
445.950 MHz packet at 00, 25, and 35 seconds UTC time via KD7LMO-11

Our mobile cross band Digipeater will repeat the APRS data to the 144.390 MHz standard APRS frequency and thus will be I-GATED to the Internet for out of area trackers. You track the flight using either of the following links:

http://www.findu.com/cgi-bin/find.cgi?kd7lmo-11
http://map.aprsworld.net/kd7lmo-11

Pre-Flight Discussions starting around 6:00 - 6:15 AM

Sacaton Peak, 447.725 MHz/100.0 Hz PL tone

Launch Location: I-8 at the Freeman Road Exit

* NOTE on IRLP reflector. When you connect, the node will report you are connected to the Western States Reflector 925 on channel 5. This channel has been reserved for high altitude balloon flights. Remember to key your transmitter for 2 seconds BEFORE you begin to talk. Also, when you join the node, please listen 10-15 seconds before transmitting. The cross band repeater is also used for our tracking and recovery team.

1734. Re: ConHAB Launch Update, READ THIS!!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 18:01:59 UTC
From: Ralph Wallio, W0RPK
Topic: 1734 Message: 1734

Paul,

All of us are very interested in how this develops. Please keep us advised. Perhaps it will help for you to compare notes with Dr. Mani Mina at Iowa State University.

Note new e-mail and web addresses.

To All --

This was to be a Part101-exempt Concordia College ConHAB flight.

It is difficult to believe this is just a coincidence. Both ISU and Concordia are flying in Minneapolis ARTCC controlled airspace. Something has triggered this, e.g., an FAA meeting topic, an FAA memo or FAA directive. We need to know what has changed ... it would help to have a copy of a memo or directive.

Did any of the following flights file NOTAMs:

ORB-18 08Oct05
ANSR-26 08Oct05
TRAVELER 2005C 01Oct05
CNS-005 01Oct05
ARSAT 2005D 10Sep05
HABITAT SkyLab HS05D 10Sep05
ANSR-25 03Sep05

If a NOTAM was filed was there any unexpected reaction from the FAA?

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Paul Seifert" <seifert@...>
Sent: Saturday, October 08, 2005 10:02 AM
Subject: ConHAB Launch Update, READ THIS!!!

I just received a call back from the Grand Forks Flight Service Station, with whom I'd filed a NOTAM for our flight. They informed me that we may actually need an FAA waiver (instead of the notice we filed), and that they would not issue a NOTAM until that was resolved, even though we've never needed a balloon waiver before.

Unfortuanely the Fargo office I was told to contact is closed on weekends. So needless to say our launch is now cancelled for tomorrow.

I figure this is going to take a while to resolve.

Sorry for the false alarm.

PS

1735. Telemetry distance record entry

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 18:09:10 UTC
From: Ralph Wallio, W0RPK
Topic: 1735 Message: 1735

A single ORB-18 packet copied near Des Moines, IA:

cmd:KC5TRB-11*>WIDE1-1>WIDE3-3>APT310 <UI>:
/161050h3621.64N/09559.88WO029/009/A=093232/ ORB Balloon

GCD = 374.31mi which is going in the record book.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1736. Re: [GPSL] Re: ConHAB Launch Update, READ THIS!!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 19:12:41 UTC
From: Zack Clobes
Topic: 1734 Message: 1736

In short, yes, PT 2005C DID filer a NOTAM this time.

Normally, we call the local tower (class D airspace) a couple of days ahead of time and they ask me the standard questions (launch site, flight prediction, ascent rate, etc) and I'm told that they are filing a NOTAM for it. I never hear much back beyond a quick call to the tower 10 minute prior to launch where they give me the go ahead.

This time however, I apparently got someone new in the tower who had me call Flight Service out of Wichita where I actually filed the NOTAM with them. Nobody was really sure how to file the NOTAM, but in the end, the questions they asked were very similar to the form that EOSS has posted on their site for their flights.

They didn't give me any hassles... A few flights back, we forgot to call the tower on Friday and when I called in Saturday morning, they threatened not to let me launch because of the short notice, but they did work with me. It didn't seem to matter to them that we were "Exempt".

Zack Clobes, W0ZC
Project: Traveler

Ralph Wallio, W0RPK wrote:

>Paul,
>
>All of us are very interested in how this develops. Please keep us advised.
>Perhaps it will help for you to compare notes with Dr. Mani Mina at Iowa
>State University.
>
>Note new e-mail and web addresses.
>
>To All --
>
>This was to be a Part101-exempt Concordia College ConHAB flight.
>
>It is difficult to believe this is just a coincidence. Both ISU and
>Concordia are flying in Minneapolis ARTCC controlled airspace. Something
>has triggered this, e.g., an FAA meeting topic, an FAA memo or FAA
>directive. We need to know what has changed ... it would help to have a
>copy of a memo or directive.
>
>Did any of the following flights file NOTAMs:
>
>ORB-18 08Oct05
>ANSR-26 08Oct05

>TRAVELER 2005C 01Oct05
>CNS-005 01Oct05
>ARSAT 2005D 10Sep05
>HABITAT SkyLab HS05D 10Sep05
>ANSR-25 03Sep05
>
>If a NOTAM was filed was there any unexpected reaction from the FAA?
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>TNX es 73 de Ralph Wallio, W0RPK
>W0RPK@...
>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>----- Original Message -----
>From: "Paul Seifert" <seifert@...>
>Sent: Saturday, October 08, 2005 10:02 AM
>Subject: ConHAB Launch Update, READ THIS!!!
>
>
>I just received a call back from the Grand Forks Flight Service Station,
>with whom I'd filed a NOTAM for our flight. They informed me that we
>may actually need an FAA waiver (instead of the notice we filed), and
>that they would not issue a NOTAM until that was resolved, even though
>we've never needed a balloon waiver before.
>
>Unfortuanely the Fargo office I was told to contact is closed on
>weekends. So needless to say our launch is now cancelled for tomorrow.
>I figure this is going to take a while to resolve.
>
>Sorry for the false alarm.
>
>PS
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>Yahoo! Groups Links
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1737. Re: outside air

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 21:02:17 UTC
From: Zack Clobes
Topic: 1737 Message: 1737

Uhhhh.... I dunno. That was four years ago.. :-)

I'm using the ?LM-35CTZ? (or thereabouts) temp sensor. For external temps, I was using the one rated down to -55C. As I recall, I put the whole sensor including the solder joints into a sleeve of black heat-shrink.

The sensor was designed to just hang from the three wires, probably out of the lid, but I don't recall precisely. My guess is that it was exposed to sunlight.

Zack Clobes, W0ZC
Project: Traveler

Hank Riley wrote:

>When you get a chance, please answer this question posted days ago
>to GPSL:
>
>Zack,
>
>Could you describe your temperature sensor for us?
>Size, color, whether enclosed or shaded from sun.
>
>Links to pictures if available, too.
>
>Hank
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>_________________________________
>Yahoo! Mail - PC Magazine Editors' Choice 2005
>http://mail.yahoo.com
>
>

1738. RE: [GPSL] Re: ConHAB Launch Update, READ THIS!!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 21:39:35 UTC
From: Mark Conner
Topic: 1734 Message: 1738

As a data point, but not particularly relevant to the discussion of what may have changed recently within the Minneapolis ARTCC area of responsibility:

I've filed NOTAMs with both Columbus FSS (Nebraska launch sites) and Fort Dodge (Iowa sites). Ft Dodge will ask if we have a waiver on file. I tell them we are Part-101-exempt and that a waiver is not required for our flight, but that I am filing a NOTAM as a courtesy. They then proceed to take down the information and enter it in the system. Columbus is far less familiar with HIBAL NOTAMs, but does enter them.

Sometimes there is a little hesitation from the FSS to take the info w/o a waiver on file, and I've had to emphasize that we do not require a waiver because of our light weight and density, etc. Once they understand we're doing this as a courtesy and not as a FAA requirement, they're OK with it.

Perhaps next time we won't be able to file the NOTAM so easily.

73 de Mark N9XTN

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ralph Wallio, W0RPK
Sent: Saturday, October 08, 2005 13:02
To: Paul Seifert
Cc: Dr. Mani Mina, ISGC ISU; Colt Wallace, HABET; GPSL
Subject: [GPSL] Re: ConHAB Launch Update, READ THIS!!!

Paul,

All of us are very interested in how this develops. Please keep us advised.

Perhaps it will help for you to compare notes with Dr. Mani Mina at Iowa State University.

Note new e-mail and web addresses.

To All --

This was to be a Part101-exempt Concordia College ConHAB flight.

It is difficult to believe this is just a coincidence. Both ISU and Concordia are flying in Minneapolis ARTCC controlled airspace. Something has triggered this, e.g., an FAA meeting topic, an FAA memo or FAA directive. We need to know what has changed ... it would help to have a copy of a memo or directive.

Did any of the following flights file NOTAMs:

ORB-18 08Oct05
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TRAVELER 2005C 01Oct05
CNS-005 01Oct05
ARSAT 2005D 10Sep05
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ANSR-25 03Sep05

If a NOTAM was filed was there any unexpected reaction from the FAA?

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Paul Seifert" <seifert@...>
Sent: Saturday, October 08, 2005 10:02 AM
Subject: ConHAB Launch Update, READ THIS!!!

I just received a call back from the Grand Forks Flight Service Station,
with whom I'd filed a NOTAM for our flight. They informed me that we
may actually need an FAA waiver (instead of the notice we filed), and
that they would not issue a NOTAM until that was resolved, even though
we've never needed a balloon waiver before.

Unfortuanely the Fargo office I was told to contact is closed on
weekends. So needless to say our launch is now cancelled for tomorrow.
I figure this is going to take a while to resolve.

Sorry for the false alarm.

PS

Yahoo! Groups Links

1739. Re: ConHAB Launch Update, READ THIS!!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 22:44:26 UTC
From: kc0nsr
Topic: 1734 Message: 1739

--- In GPSL@yahoogroups.com, "Mark Conner" <n9xtn@c...> wrote:
>
> As a data point, but not particularly relevant to the discussion of what may
> have changed recently within the Minneapolis ARTCC area of responsibility:
>
> I've filed NOTAMs with both Columbus FSS (Nebraska launch sites) and Fort
> Dodge (Iowa sites). Ft Dodge will ask if we have a waiver on file. I tell
> them we are Part-101-exempt and that a waiver is not required for our
> flight, but that I am filing a NOTAM as a courtesy. They then proceed to
> take down the information and enter it in the system. Columbus is far less
> familiar with HIBAL NOTAMs, but does enter them.
>
> Sometimes there is a little hesitation from the FSS to take the info w/o a
> waiver on file, and I've had to emphasize that we do not require a waiver
> because of our light weight and density, etc. Once they understand we're
> doing this as a courtesy and not as a FAA requirement, they're OK with it.
>
> Perhaps next time we won't be able to file the NOTAM so easily.
>
> 73 de Mark N9XTN
>
>

OK. Now I can post to the group since I've finally gotten around to subscribing. Mark, your comments are interesting, because I did not say "Part 101 exempt."

What I did do was try to file a NOTAM. He asked if I had or needed a waiver. I said no. They took my info, and we concluded.

The called back about 45 minutes later and asked about the waiver again. I said I didn't have one, and was not required to have one. He said (direct quote) "My instructions say you need one." He referred me to the Fargo, ND FSDO, and gave me the number. I asked if the waiver was a new thing, as I didn't need one before, and UND has been flying for 5+ years without one. He repeated the "instructions"

thing.

Of course, Fargo FSDO is not open on weekends, so that effectively shut down our launch until I straighten this out. I'll post updates as they come in.

Paul
KC0NSR
ConHAB

1740. Re: [GPSL] Re: ConHAB Launch Update, READ THIS!!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-08 22:55:25 UTC
From: Harry M
Topic: 1734 Message: 1740

Yes I did file a NOTAM on Friday AM and nothing out
of the ordinary from FSS or the Tulsa International airport
tower proceedures manager. In fact the manager and I
talked for over an hour about just about everything. I did
call the tower radar super for a complimentary report today
as we passed through 40k and the same... nothing out of the
ordinary!

If your flight does not fall under FAR-101 and you are just
filing as a courtesy to air traffic, I don't see how they can
refuse to file the NOTAM. I would get the ID of the person
who refused to take it and call someone at the GADO office
during buisness hours and find out why it was refused.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1741. UX-3 Flight Announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-11 04:51:42 UTC
From: Travis J. Maclay
Topic: 1741 Message: 1741

The University of Tennessee Amateur Radio Club (UTARC) is pleased to announce the flight of UX-3. This mission will be flown with the call of K4T-11.

This high altitude balloon flight will take place on Saturday, October 22, 2005, at 8:00 AM EDST (1200 UTC). The launch site will be the campus of the University of Tennessee in downtown Knoxville. Exact launch location will be the University Center Plaza at the corner of Andy Holt and Philip Fulmer.

Two (2) 3000-gram weather balloons filled with helium will fly in tandem. Expected burst altitude will be 100,000 feet or more. Flight time is expected to be about 2.5 hours.

The following devices will fly on this mission as part of the payload:
Primary APRS / voice telemetry
Backup APRS transmitter
433 MHz beacon
10-meter transmitter (voice telemetry)

Pre-flight path predictions are available via the internet at:
<http://www.reachingnewheights.org/ux3>
http://www.reachingnewheights.org/ux3

Information on this and previous flights can be found at
<http://balloon.utarc.org> http://balloon.utarc.org

Tracking for this flight can be located at:
<http://map.findu.com/k4t-11> http://map.findu.com/k4t-11

For more information, please contact Travis Maclay (N4TJM) at
tjmaclay@...
Thanks to KD7LMO <http://www.kd7lmo.net> for use of announcement
script.

1742. FSS changes

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-13 14:23:10 UTC
From: Roger Hammond
Topic: 1742 Message: 1742

This is an article from the Aircraft Owners and Pilots Association website. I'm not sure if this will make things better or worse for our groups.

Roger - KC0MWM
CNNSP

****

Lockheed Martin starts running FSS stations

Just after midnight on October 4, the FAA officially turned over control of the automated flight service station system to Lockheed Martin to run under contract.

"AOPA was an advocate for this switch, because it was the only way to modernize flight service and improve services to pilots," said AOPA President Phil Boyer. "Now we take up our watchdog role, to make sure pilots ultimately get everything that Lockheed Martin has committed to in its contract with the FAA."

Pilots won't likely notice any change in the near future. Today it is essentially the same people using the same equipment as yesterday. But as Lockheed Martin phases in new equipment and new procedures, pilots should eventually notice service improvements. The contract is expected to save the FAA and taxpayers more than $2 billion over the next 10 years.

The FAA and Lockheed Martin established a command center with open lines to all 58 flight service stations to monitor the switch-over. They report that so far all of the shifts have been staffed, and all of the equipment is working.

1743. ConHAB FAA troubles resolved!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-13 17:10:09 UTC
From: kc0nsr
Topic: 1743 Message: 1743

This is the followup to my adventure with the FAA and my cancelled flight this last weekend.

I called the Fargo FSDO office, and talked to an agent there. After explaining my story (being told I needed a waiver for the exempted flight by someone in the Grand Forks AFSS), he did some research, and called me back.

The problem stems from the fact that the AFSS in North Dakota has been outsourced to elsewhere (Princeton) in just the last two weeks. The new outsourced agents simply didn't know what I was trying to do, or what to do about it. I was given a number that goes directly to an agent in the actual Flight Service Station in Grand Forks who is familiar with what we are doing. Problem solved.

The Fargo office did say that while I don't technically need to file a NOTAM, they would like it if I did. That way the FAA knows what I'm doing and when, and it gives me some protection if something goes wrong (in that I understand the rules/followed them/made projections of where the balloon is going). He also added that I definitly don't need a waiver.

Next tentative launch date: October 30.

Paul Seifert, KC0NSR
ConHAB
Concordia College, Moorhead, MN

1744. RE: [GPSL] ConHAB FAA troubles resolved!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-13 20:40:33 UTC
From: Mark Conner
Topic: 1743 Message: 1744

This is indeed good news - sense prevails! Thanks much for the update.

73 de Mark N9XTN
www.nstar.org

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of kc0nsr
Sent: Thursday, October 13, 2005 12:10
To: GPSL@yahoogroups.com
Subject: [GPSL] ConHAB FAA troubles resolved!

This is the followup to my adventure with the FAA and my cancelled
flight this last weekend.

I called the Fargo FSDO office, and talked to an agent there. After
explaining my story (being told I needed a waiver for the exempted
flight by someone in the Grand Forks AFSS), he did some research, and
called me back.

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NOTAM, they would like it if I did. That way the FAA knows what I'm
doing and when, and it gives me some protection if something goes
wrong (in that I understand the rules/followed them/made projections
of where the balloon is going). He also added that I definitly don't
need a waiver.

Next tentative launch date: October 30.

Paul Seifert, KC0NSR
ConHAB
Concordia College, Moorhead, MN

Yahoo! Groups Links

1745. Re: [GPSL] ConHAB FAA troubles resolved!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-14 00:12:50 UTC
From: Harry M
Topic: 1743 Message: 1745

> Subject: [GPSL] ConHAB FAA troubles resolved!

Way to go Paul!

Most of the time when I file exempt, I tell the FSS what they
need to know. They really haven't a clue. I was told by the FSS
that the NOTAM system is pretty overloaded and it's lucky
they get filed at all. When you file, ask for the ID of the operator
that is filing your NOTAM. Just another bit of info that might help
if needed in the future.

Here's an example of the data I keep for every flight. The time for launch
is
what you want the duration of the NOTAM to be. The rest is all the info the
FSS ever needs. The time on the last line is the time I actually file the
NOTAM.

Launch: 04/09/05 1300z - 1800z
Launch Site: TUL VOR 10 nm / 303 radial - MA2 Sperry 36.30737/95.946355
Land Site: TUL VOR 12 nm / 303 radial (Predicted)
NOTAM#: TUL D 10 / 1004 Oper: " MD " Time: 10:24 CDT / 15:24 z 10/07/05

The next time I file a NOTAM I give the FSS the previous number. They bring
it up
on their computer and modify it for the current NOTAM being filed.

Good luck on the next flight!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

1746. Payload weight

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-19 12:54:04 UTC
From: Ralph Wallio, W0RPK
Topic: 1746 Message: 1746

Nikhil,

I forwarded your discussion to our GPSL email list which may result in comments from others. I suggest you subscribe to this list via GPSL-subscribe@yahoogroups.com because it carries many/most similar inter-group discussions.

Since FAA FAR101 is (purposefully?) vague, incomplete and non-specific it seems reasonable to interpret it to our advantage. This allows us to apply weight limits just to payload enclosures, e.g., two payload enclosures weighing <=6-pounds each. In my opinion we do -not- have to include parachute, tow line or other small miscellaneous weights in the 12-pound total.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Nikhil Paruchuri" <nikhilee@...>
To: <W0RPK@...>
Sent: Tuesday, October 18, 2005 2:16 PM
Subject: payload weight

hi Ralph,

This is Nikhil from the HABS program at University of Kansas. I have an issue
regarding the weight of payload that can be flown without having to go through
the red tape with FAA.

Based on FAA regulation 101.1 , the total weight of the payloads should not be more than 12 pounds and each payload should not be more than 6 pounds. What
is not mentioned clearly is whether the parachute and the straps/ropes used to
attach the parachute to the boxes are considered as payloads, i.e. whether the
weight of the parachute and ropes is considered in the 12 pound limit. If you
have any input on this , I would appreciate it .

Thanks,
Nikhil

Nikhil Paruchuri
Graduate Student
Department of Electrical Engineering and Computer Science.
phone:785-864-3173(O)
email: nikhil@...
nikhilee@...

1747. EOSS 100: Invitation to EOSS #100 Flight and Anniversary Celebration

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-20 15:14:54 UTC
From: Marty Griffin
Topic: 1747 Message: 1747

Please Save the Date!

On November 12, 2005, the Edge of Space Sciences Organization (EOSS) will be celebrating its 15th anniversary. EOSS is a non-profit organization that promotes science, engineering and education by exploring frontiers in amateur radio and high altitude balloons.

To mark this important occasion we will make our 100th EOSS launch. In addition we will recognize the contributions of key individuals who have demonstrated extraordinary dedication to fulfilling the EOSS mission to further interest in science, engineering and education. Please make your plans to attend today!

What: EOSS-100 Mission, Presentations, Lunch Reception
When: November 11, 2005, 7:00 p.m. Dinner with High Altitude Balloon Pioneers at Longmont, CO
When: November 12, 2005, 7:00 a.m. - 2:00 p.m. (Launch at 7:30 a.m.)
Where: Intrado Headquarters
1601 Dry Creek Drive
Longmont, CO 80503

Rain date: November 13, 2005

More details to follow. We hope to see you there. Let us know if you can attend and reply to: wa0geh@...

Thanks from your EOSS event team,

Marty Griffin, WA0GEH
Jim Gifford, K0LOB
Steve Meer, K0SCC

1748. Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-22 17:49:17 UTC
From: Zack Clobes
Topic: 1748 Message: 1748

[Body unavailable in the source archive]

1749. Re: [GPSL] Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-22 18:05:12 UTC
From: Ralph Wallio, W0RPK
Topic: 1748 Message: 1749

EOSS-99 has been up and down. EOSS-98 is on the way down right now.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1750. Re: [GPSL] Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-22 18:08:23 UTC
From: Zack Clobes
Topic: 1748 Message: 1750

Were any records set?

Ralph Wallio, W0RPK wrote:

>EOSS-99 has been up and down. EOSS-98 is on the way down right now.
>
>TNX es 73 de Ralph Wallio, W0RPK
>W0RPK@...
>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
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>Yahoo! Groups Links
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1751. Re: [GPSL] Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-22 19:33:29 UTC
From: Ralph Wallio, W0RPK
Topic: 1748 Message: 1751

Both EOSS flights topped out at 97kft. No records.

The UTARC UX-3 flight burst at 115kft. In our Top-10 but not a record.

Both RIT Meteor and Explorer Post 632 scrubbed.

Nothing more heard about the Habitat flight.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1752. RE: [GPSL] Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-22 19:45:28 UTC
From: Mark Conner
Topic: 1748 Message: 1752

Discussion on the HABITAT list last night was that they were inclined to either cancel or fly an expendable non-APRS beacon due to weather concerns and a funeral Don had to attend.

73 de Mark N9XTN

-----Original Message-----

Nothing more heard about the Habitat flight.

1753. RE: [GPSL] Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-22 22:41:33 UTC
From: Rick von Glahn
Topic: 1748 Message: 1753

EOSS flew three APRS systems aboard two balloons today. Two seem to have a 30K meter limiter built into them. We will examine this in the coming weeks and report to Ralph on possible GPS engines with this as a problem.

No records were set. The first balloon ascended to 97K and quit reporting altitude at 15:15:28 UTC. At that time the average ascent rate was around 1200 fpm. Burst was observed optically at 15:30:21. So, even if we were receiving telemetry burst would have occurred at approximately 117K feet and left us short of this year's current record of 118,352 feet ASL. That was the 7000 gram latex envelope.

The second balloon had two GPS systems aboard. One failed, the other worked fine and that system ascended to 113,953 ft. ASL. This was a new 3000 gram latex balloon.

When each failed GPS system descended below 30K meters it once again began functioning. So, we had a fairly routine recovery day as far as finding the payload systems. However, one did require a bit of a hike and descent into a ravine of some kind. I just heard about this peripherally and expect more detail will be forthcoming in the form of pictures or perhaps a text recap from that recovery team.

A web recap is in progress and as photos arrive will be fleshed out. But, if you're interested in data you can find flight logs on findu.com for:

Ae0ss-11
K0yuk-11
K0ani-11

I will post these logs and comma delimited versions over the next few days at the recap pages.

http://www.eoss.org/ansrecap/ar_100/recap9899.htm

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Ralph Wallio, W0RPK
> Sent: Saturday, October 22, 2005 12:33 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Has anyone heard anything out of EOSS
> this morning?
>
> Both EOSS flights topped out at 97kft. No records.
>
> The UTARC UX-3 flight burst at 115kft. In our Top-10 but not

> a record.
>
> Both RIT Meteor and Explorer Post 632 scrubbed.
>
> Nothing more heard about the Habitat flight.
>
> TNX es 73 de Ralph Wallio, W0RPK
> W0RPK@netINS.net
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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1754. Re: [GPSL] Has anyone heard anything out of EOSS this morning?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-23 21:11:55 UTC
From: Mike Manes
Topic: 1748 Message: 1754

Hi Ralph,

Those 97K' max altitudes were the result of the apparent 30km elevation limits in the new Rockwell Jupiter GPSs that flew in K0YUK-11 and AE0SS-11. We viually detected burst on EOSS-98 about 15 minutes after the last report from K0YUK-11 at 97K'. And EOSS-99 was also carrying K0ANI-11, which used an older version Jupiter, and that one reported over 113K' max'; might see if findu still has that log.

Lesson learned: Not ALL Rockwell Jupiters will report to 40,000 meters! The older ones have a full shield over the RF and IF sections, while the new ones we flew only had a partial shield. We intalled the new Jupiters because they tested on the ground with much faster acquisition times and better weak signal tracking, never suspecting that they also had reduced max reporting altitudes. Caveat emptor!

But the bottom line is that no, EOSS didn't bust the all-time record of about 121.5k' or the 2005 record of about 118k'. We did improve on our "personal best" by about 10K', though. We ain't given up, however!!

73 de Mike W5VSI

"Ralph Wallio, W0RPK" wrote:
>
> Both EOSS flights topped out at 97kft. No records.
>
> The UTARC UX-3 flight burst at 115kft. In our Top-10 but not a record.
>
> Both RIT Meteor and Explorer Post 632 scrubbed.
>
> Nothing more heard about the Habitat flight.
>
> TNX es 73 de Ralph Wallio, W0RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1755. I should know this but .....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-24 10:52:54 UTC
From: kc0mic
Topic: 1755 Message: 1755

All

For a KPC3+, how do you turn off ' <UI>:" so instead of:

K2BSA-11>GPS: <UI>:$GPGGA,133329,3913.2514,N,.............

you get:

K2BSA-11>GPS:$GPGGA,133329,3913.2514,N,.............

I thought it was
HEA=off
But that doesn't seem to help.

Thanks in advance!

73 de Troy KC0MIC

1756. New Jupiter vs. old Jupiter GPS engines

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-24 11:11:30 UTC
From: Ralph Wallio, W0RPK
Topic: 1756 Message: 1756

Mike,

Thanks for reporting the problem. We have the older Jupiter version you (and I) have flown successfully in our GREEN list with model number and software version. We need equivalent information for the newer receivers in a new ORANGE list at http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm.

Please forward model number and software version which I will add to the list with information about your experience.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Mike Manes" <manes@...>
To: "Ralph Wallio, W0RPK" <W0RPK@...>
Cc: <GPSL@yahoogroups.com>; "Eoss Launch Team reflector" <EOSS_LT@yahoogroups.com>; "EOSS T&R reflector" <EOSS_Trackers@yahoogroups.com>
Sent: Sunday, October 23, 2005 4:11 PM
Subject: Re: [GPSL] Has anyone heard anything out of EOSS this morning?

Hi Ralph,

Those 97K' max altitudes were the result of the apparent 30km elevation limits in the new Rockwell Jupiter GPSs that flew in K0YUK-11 and AE0SS-11. We viually detected burst on EOSS-98 about 15 minutes after the last report from K0YUK-11 at 97K'. And EOSS-99 was also carrying K0ANI-11, which used an older version Jupiter, and that one reported over 113K' max'; might see if findu still has that log.

Lesson learned: Not ALL Rockwell Jupiters will report to 40,000 meters! The older ones have a full shield over the RF and IF sections, while the new ones we flew only had a partial shield. We intalled the new Jupiters because they tested on the ground with much faster acquisition times and better weak signal tracking, never suspecting that they also had reduced max reporting altitudes. Caveat emptor!

But the bottom line is that no, EOSS didn't bust the all-time record of about 121.5k' or the 2005 record of about 118k'. We did improve on our "personal best" by about 10K', though. We ain't given up, however!!

73 de Mike W5VSI

1757. Re: [GPSL] I should know this but .....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-24 11:56:10 UTC
From: David Hoffman
Topic: 1755 Message: 1757

I think you'll want to turn MCOM off.? This is out of the manual on the MCOM command.
MCOM {ON | OFF}
default OFF
Supervisory (control) packets are not monitored unless MCOM is set ON and
MON is ON. In addition if your station is connected, control packets are not
monitored unless MCON is also ON. Control packets, when displayed, are
distinguished from information packets by the ?<>? and ?<<>>? character sets
appended to the packet header. With these characters, a letter is included to
denote the type of control packet received, e.g. <> - a connect request
packet. The types of control packets are listed below.
Connect request
Disconnect request
Disconnected Mode
Unnumbered Acknowledge
In addition, the following bracketed information will be added to the Information
packets as appropriate:
Unconnected Information frame
Information frame (connected);
199
s = send sequence number
See also: ax25l2v2, monitor, mresp
For details on control packets, see the book AX.25 Amateur Packet-Radio Link-Layer
Protocol Version 2.0 October 1984, available from the ARRL.

David Hoffman - KE4FGW

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> All
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> For a KPC3+, how do you turn off ' >UI
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> YAHOO! GROUPS LINKS
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> Visit your group "GPSL" on the web.
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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1758. Re: [GPSL] I should know this but .....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-25 01:10:10 UTC
From: Mike Manes
Topic: 1755 Message: 1758

Hi Troy,

Turn MCOM OFF.

If you're trying to get the TNC to work with APRS-SA, also turn off
MHEAD and MSTAMP - seems the code can't parse the UI text otherwise.

73 de Mike W5VSI

kc0mic wrote:
>
> All
>
> For a KPC3+, how do you turn off ' <UI>:" so instead of:
>
> K2BSA-11>GPS: <UI>:$GPGGA,133329,3913.2514,N,.............
>
> you get:
>
> K2BSA-11>GPS:$GPGGA,133329,3913.2514,N,.............
>
>
> I thought it was
> HEA=off
> But that doesn't seem to help.
>
> Thanks in advance!
>
> 73 de Troy KC0MIC
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1759. Re: [GPSL] I should know this but .....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-25 16:47:06 UTC
From: Troy Campbell
Topic: 1755 Message: 1759

Mike,

Thanks!

73 de Troy KC0MIC

--- Mike Manes <manes@...> wrote:

> Hi Troy,
>
> Turn MCOM OFF.
>
> If you're trying to get the TNC to work with
> APRS-SA, also turn off
> MHEAD and MSTAMP - seems the code can't parse the UI
> text otherwise.
>
> 73 de Mike W5VSI
>
> kc0mic wrote:
> >
> > All
> >
> > For a KPC3+, how do you turn off ' <UI>:" so
> instead of:
> >
> > K2BSA-11>GPS:
> <UI>:$GPGGA,133329,3913.2514,N,.............
> >
> > you get:
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>
K2BSA-11>GPS:$GPGGA,133329,3913.2514,N,.............
> >
> >
> > I thought it was
> > HEA=off
> > But that doesn't seem to help.
> >
> > Thanks in advance!
> >
> > 73 de Troy KC0MIC
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> > Yahoo! Groups Links
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> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but
> not more so." A.
> Einstein
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Yahoo! FareChase: Search multiple travel sites in one click.
http://farechase.yahoo.com

1760. Re: [GPSL] I should know this but .....

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-25 16:51:09 UTC
From: Troy Campbell
Topic: 1755 Message: 1760

Thanks!

73 de Troy KC0MIC

--- David Hoffman <ke4fgw@...> wrote:

I think you'llwant to turn MCOM off.? This is out of
the manual on the MCOMcommand.

MCOM {ON | OFF}
defaultOFF
Supervisory (control) packets are not monitored unless
MCOM isset ON and
MON is ON. In addition if your station is
connected,control packets are not
monitored unless MCON is also ON. Controlpackets, when
displayed, are
distinguished from information packetsby the ?<>? and
?<<>>? character sets
appended tothe packet header. With these characters, a
letter is included to
denote the type of control packet received, e.g. <<c>>
- aconnect request
packet. The types of control packets are listedbelow.
<C> Connect request
<D> Disconnect request
<DM> Disconnected Mode
<UA> Unnumbered Acknowledge
In addition, the following bracketed information will
be added to theInformation
packets as appropriate:
<UI> UnconnectedInformation frame
<Is> Information frame (connected);
199
s = send sequence number
See also: ax25l2v2, monitor,mresp
For details on control packets, see the book AX.25
AmateurPacket-Radio Link-Layer
Protocol Version 2.0 October 1984, availablefrom the
ARRL.

DavidHoffman - KE4FGW

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> All
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> For a KPC3+, how do you turn off ' >UI
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> YAHOO! GROUPS LINKS
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> Visit your group "GPSL" on the web.
>To unsubscribe from this group, send an email to:
>GPSL-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups issubject to the Yahoo!
Terms of Service.
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GPSL-unsubscribe@yahoogroups.com

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Terms of Service.

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Yahoo! FareChase: Search multiple travel sites in one click.
http://farechase.yahoo.com

1761. Re: [Ballooning] NWS Balloon Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-26 04:20:59 UTC
From: Mike Manes
Topic: 1761 Message: 1761

Hi Phil,

Congratulations on your good luck in finding radiosondes! I'll betcha any balloon group would be delighted to have you join their team with your experience doing the pure-DF recovery job. With GPS APRS beacons now de rigeur in amateur radio ballooning, the bushel basket recovery is nearly a reality; it's not uncommon for the tracking team to be in wide-angle-lens range of the final decent and landing nowadays.

But those beacons are not 100% reliable, and often the terrain or posted fencelines bar that kind of activity. That when DFing is solid gold.

Lately, EOSS has been flying some 10-13 flights every year, and on 12 Nov, we'll be doing our 100th flight as well as our 15th anniversary. And we have a 100% recovery record ... so far. So there's not a lot of incentive to go chasing NOAA's RAOBs. And since I'm stuck with the ground station job, I haven't been on a T&R chase and recovery for many years. With the price of gas nowadays, that may be a coveted job, tho.

Sure glad that Bill Brown got back to you on his RAOB chasing. Bill is the acknowleged granddaddy of amateur high altitude ballooning, and was the inspiration for the founding of EOSS back in 1990. Before his first launch, 'way back when dirt was young, Bill used to do what you do from his QTH in Ohio. And from what he's sent you recently, he's still at it. Chronic case of balloonacy .... (I should talk ...).

73 de Mike W5VSI

Phil Manor wrote:
>
> Hi Mike,
>
> I have been hunting the NWS weather balloons for several years now and have
> found about 6 so far. The R3 works good.
> The frequency is 1680 Mhz +- 10 Mhz and lots of drift. It takes a while to
> get used to following the drift and the bearing at the same time. I use a
> real simple 10 element home-brew yagi for tracking. I scaled it down from a
> 440 yagi in the ARRL Handbook. I use the AM mode for distant tracking and
> switch to FM Wide when it gets real close. Pull the antenna off completely
> and use body shielding for the last 100 yards or so. They will transmit for
> at least an hour after touch down.
> You can use this site to find the launch sites:
>
> http://weather.uwyo.edu/upperair/sounding.html

>
> And use this site to predict the landing point. Just enter the Lat Lon of
> the launch site and the estimated burst altitude. 30000 meters is the
> default and usually pretty close for this area, (Detroit Mi)
>
> http://weather.uwyo.edu/polar/balloon_traj.html
>
> The balloons can go in any direction and anywhere from 0 to 300 miles.
> Without the prediction it would be futile.
> Often they change direction as they ascend sometimes doing a 180 turn for a
> while. Please let me know how you do.
> Good Luck
> Phil W8IC
>
> Hi fella's
>
> I have been lurking in this NG for quite some time now and I have a few
> questions. Is an Icom R3 receiver acceptable for tracking and locating
> radiosondes? Is there a perfered radio antenna combination? I have
> wanted to find one since I was about 10 years old and I finally live
> near the desert ! :-) . Thank you in advance.
> Mike Burch K8MB
> Apache Junction, AZ
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
> Regards,
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> Moderator, Ballooning
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1762. Balloon flight this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-26 21:43:35 UTC
From: Zack Clobes
Topic: 1762 Message: 1762

Sorry for the late notice (again), but Jon has another payload to fly this weekend. See the Project: Traveler section of the website for details.

We will be launching again from the Hutch airport.

Note: Because of size constraints, this flight will most likely NOT be posted to Findu.com unless some kind soul in the central Kansas area would like to iGate us from 144.34MHz.

Zack Clobes, W0ZC
Project: Traveler

1763. EOSS 100: Flight Announcement and Invitation

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-28 03:09:50 UTC
From: Marty Griffin
Topic: 1763 Message: 1763
Attachments: 1 described; binary payloads are missing from this source WARC

Hi GPSL Friends,
This is a proud moment for EOSS. Can you help us pass this around via email and announce it on the many nets you attend? I have attached a one-page poster with the logo on it also. This message serves as an invitation for one and all. Please RSVP and we hope you can make it to Longmont on November 12!

- Marty, WA0GEH

++++++++++++ Snip Here ++++++++++++++++++++++++++++++++

Join Edge of Space Sciences (EOSS) as we celebrate 15 years of high altitude educational and scientific balloon missions by launching Flight 100!

EOSS is a non-profit Colorado organization consisting of scientists, engineers, amateur radio operators and educators who promote education and the sciences by using amateur radio and high altitude balloons to conduct missions at the edge of space. Over 21,000 high school and university students have participated in scientific balloon flights as a direct result of EOSS inspiration over the past 15 years.

This event is an opportunity to recognize the contributions of amateur balloon pioneers from around the nation and within EOSS. Hosts for this launch, ceremony and party are the kind folks at Intrado Inc in Longmont, CO. Here are the details:

WHAT: EOSS Flight 100. This flight is in support of the Colorado Space Grant College program and will fly four student-designed and built payloads. There will be a short recognition ceremony before the 8:00 a.m. launch from the Intrado east parking lot. Everyone can enjoy the launch and then move indoors to the auditorium. During the flight, you will be hosted in mission control, our multi-media auditorium while EOSS ground station personnel manage the flight. They will present the flight status, interact with the tracking and recovery operations, and provide amazing video on many large media screens. You are welcome to talk with the ground station folks and they will gladly answer questions about EOSS-100 or other flights or activities. Balloon pioneers from around the nation will offer comments and insights. The payload will be returned by helicopter and the wrap up party will begin. Food and drinks will be provided by our generous hosts, Intrado.

WHEN: November 12, 2005. Rain or snow date is November 13, 2005
6:30 a.m.: Pre-flight process, student experiment staging, flight string tests, balloon inflation
6:30 a.m. - 8:30 a.m: Breakfast feast starts, please RSVP
7:15 a.m. - 7:30 a.m.: Recognition ceremony at launch site

7:30 a.m.: EOSS 100 Launch!!
7:30 a.m. - 12:00 a.m.: Flight mission and recovery in mission control center
12:00 p.m. - 2:00 p.m.: Wrap-up party and reception starts, please RSVP

WHERE: Intrado Headquarters
1601 Dry Creek Drive, South East Parking Lot
Longmont, CO 80503
Talk-in 147.225, PL 107.2, 146.58 Simplex

DINNER FRIDAY NIGHT: Optionally, gather with us at the Armadillo Restaurant for an
informal "gab and eat" on Friday night, October 11 at 7:00 PM. The location is: 700 Ken Pratt Blvd, Longmont, CO 80501-6452, (303)-651-1116. The Armadillo provides very good Mexican cuisine at a reasonable price. We will be in a private area. Ask the host to direct you to the EOSS group.

LODGING: For those of you wishing to stay Friday night in Longmont, the official event hotel will be the Marriott Courtyard, 1410 Dry Creek Drive, Longmont CO 80503, (303)-682-1166. $89 per night for a single which does not include breakfast. This facility is right across the street from the launch site.

Nearby there is also a Days Inn, 3820 Highway 119, Longmont, CO 80501. $78 per night.

RSVP: If you think you may attend this event, please send an email to Jennifer Laverty, jlaverty@.... Advise her how many will be in your party for the breakfast and wrap-up party. This will help us plan for ample food and refreshments on launch day. Folks with RSVP will have priority at the breakfast and wrap-up party.

Additionally, if you plan to attend the informal Friday night dinner, please indicate how many will be attending so we can adjust the reservations.

FOR MORE INFORMATION: Contact Jim Gifford at K0LOB@.... Check www.eoss.org, and select Upcoming Flights. We hope to see you there!!!

1764. Re: [GPSL] Balloon flight this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-28 17:35:09 UTC
From: Mary Van Winkle
Topic: 1762 Message: 1764

Hi,
AD5QV, Mary Van Winkle here in Seiling, Ok what are all the freq. you will be using and waht time are you going to launch as I should be able to track your signal from here.
Mary Van Winkle AD5QV
mevanwinkle@...

Zack Clobes <zclobes@...> wrote:
Sorry for the late notice (again), but Jon has another payload to fly
this weekend. See the Project: Traveler section of the website for details.

We will be launching again from the Hutch airport.

Note: Because of size constraints, this flight will most likely NOT be
posted to Findu.com unless some kind soul in the central Kansas area
would like to iGate us from 144.34MHz.

Zack Clobes, W0ZC
Project: Traveler

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YAHOO! GROUPS LINKS

Visit your group "GPSL" on the web.

To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1765. Re: [GPSL] Balloon flight this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-28 21:35:43 UTC
From: Zack Clobes
Topic: 1762 Message: 1765

144.34. We will be flying W0WR-11.

We plan to be airborne by 8:30am.

Zack

Mary Van Winkle wrote:

> Hi,
> AD5QV, Mary Van Winkle here in Seiling, Ok what are all the freq. you
> will be using and waht time are you going to launch as I should be
> able to track your signal from here.
> Mary Van Winkle AD5QV
> mevanwinkle@...
>
> */Zack Clobes <zclobes@...>/* wrote:
>
> Sorry for the late notice (again), but Jon has another payload to fly
> this weekend. See the Project: Traveler section of the website
> for details.
>
> We will be launching again from the Hutch airport.
>
> Note: Because of size constraints, this flight will most likely
> NOT be
> posted to Findu.com unless some kind soul in the central Kansas area
> would like to iGate us from 144.34MHz.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>

> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

1766. Re: [GPSL] Balloon flight this weekend.

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-28 21:51:05 UTC
From: J B
Topic: 1762 Message: 1766

Hello Zack: Jack WY0F in Grand Island, NE...Don't
know if I'll here you our not. but have tnc, 706 all
connected and ready to listen on 144.34 and anything I
hear will be iGated
later, have a good flight. We are flying the 5th of
November from the Wood River High School launch is
08:00 local.
later, Jack

--- Mary Van Winkle <mevanwinkle@...> wrote:

> Hi,
> AD5QV, Mary Van Winkle here in Seiling, Ok what are
> all the freq. you will be using and waht time are
> you going to launch as I should be able to track
> your signal from here.
> Mary Van Winkle AD5QV
> mevanwinkle@...
>
> Zack Clobes <zclobes@...> wrote:
> Sorry for the late notice (again), but Jon has
> another payload to fly
> this weekend. See the Project: Traveler section of
> the website for details.
>
> We will be launching again from the Hutch airport.
>
> Note: Because of size constraints, this flight will
> most likely NOT be
> posted to Findu.com unless some kind soul in the
> central Kansas area
> would like to iGate us from 144.34MHz.
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
> SPONSORED LINKS
> Hobby and craft supply Craft hobby Hobbies and
> crafts Ham radio
>
> ---------------------------------
> YAHOO! GROUPS LINKS
>
>

> Visit your group "GPSL" on the web.
>
> To unsubscribe from this group, send an email
> to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the
> Yahoo! Terms of Service.
>
>
> ---------------------------------
>
>
>
> ~---~
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam
> protection around
> http://mail.yahoo.com

_____
Yahoo! Mail - PC Magazine Editors' Choice 2005
http://mail.yahoo.com

1767. Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 12:01:32 UTC
From: Zack Clobes
Topic: 1767 Message: 1767

Despite 17G25kt surface winds, PT will be attempting our fourth flight of the year this morning. We expect a launch at 8:30am from the Hutchinson airport (KHUT).

Tracking MAY be available at http://www.findu.com/cgi-bin/find.cgi?call=w0wr-11. We're flying on 144.34 and it just depends if enough Internet Gateways within our range have QSY'ed over to this frequency.

Zack Clobes, W0ZC

1768. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 12:46:55 UTC
From: Harry M
Topic: 1767 Message: 1768

Looks like it's already pretty gusty!

Overcast and Breezy

55?F
(13?C) Humidity: 55 %
Wind Speed: SE 23 G 32 MPH
Barometer: 30.15" (1019.7 mb)
Dewpoint: 39?F (4?C)
Wind Chill: 50?F (10?C)
Visibility: 10.00 mi.
More Local Wx: 3 Day History:

GLuck!!!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> Despite 17G25kt surface winds, PT will be attempting our fourth flight
> of the year this morning. We expect a launch at 8:30am from the
> Hutchinson airport (KHUT).

1769. Project:Traveler airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 14:34:37 UTC
From: Mark Conner
Topic: 1769 Message: 1769

It appears Zack got his balloon off the ground even with the 30mph gusts at Hutchinson. KC5TRB is picking up some data from Tulsa. So far nothing heard here in Bellevue NE yet, but it's probably near or a little below my horizon now.

http://www.findu.com/cgi-bin/find.cgi?w0wr-11

73 de Mark N9XTN

1770. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 14:36:39 UTC
From: Harry M
Topic: 1767 Message: 1770

I lost all signal from PT at about 40,000 ft.

hhm

1771. Re: [GPSL] Project:Traveler airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 14:39:03 UTC
From: Harry M
Topic: 1769 Message: 1771

I lost all signal from PT at about 40,000 ft.

hhm

It appears Zack got his balloon off the ground even with the 30mph gusts at Hutchinson. KC5TRB is picking up some data from Tulsa. So far nothing heard here in Bellevue NE yet, but it's probably near or a little below my horizon now.

1772. Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 15:09:31 UTC
From: Mark Conner
Topic: 1772 Message: 1772

Nothing heard from any of the Igates who switched to 144.34 since about 0920 CDT. If you're in central or eastern Kansas, you might switch to 144.34 to see if you can pick up a signal. Hopefully it's just a little weak instead of having no signal at all.

I have my 10-el beam pointed south in the hopes of picking something up.

73 de Mark N9XTN

1773. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 15:18:31 UTC
From: Ralph Wallio, W0RPK
Topic: 1772 Message: 1773

When searching for a signal from Traveler remember that it is -horizontally polarized-. -w0rpk

----- Original Message -----
From: "Mark Conner" <n9xtn@...>
To: "'KNSP List'" <KNSP@yahoogroups.com>; <GPSL@yahoogroups.com>
Sent: Saturday, October 29, 2005 10:09 AM
Subject: [GPSL] Lost signal from Project:Traveler

Nothing heard from any of the Igates who switched to 144.34 since about 0920 CDT. If you're in central or eastern Kansas, you might switch to 144.34 to see if you can pick up a signal. Hopefully it's just a little weak instead of having no signal at all.

I have my 10-el beam pointed south in the hopes of picking something up.

73 de Mark N9XTN

1774. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 15:46:38 UTC
From: Harry M
Topic: 1772 Message: 1774

Roger that Ralph.
I'm circular R&L.

I guess that's better than being square! :)

> When searching for a signal from Traveler remember that it
is -horizontally
> polarized-. -w0rpk

1775. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 15:52:12 UTC
From: Harry M
Topic: 1772 Message: 1775

I just tried with my horiz., and nothing.
I am using a pre-amp also.

> When searching for a signal from Traveler remember that it
is -horizontally
> polarized-. -w0rpk

1776. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 15:58:41 UTC
From: Paulus Adisoemarta
Topic: 1772 Message: 1776

According to Mark Conner:
>
>Nothing heard from any of the Igates who switched to 144.34 since about 0920
>CDT. If you're in central or eastern Kansas, you might switch to 144.34 to
>see if you can pick up a signal. Hopefully it's just a little weak instead
>of having no signal at all.

Also try to scan upwards from .34 slowly to .38
On my PT both (went dead or drifting up) had happened, also at around 40Kfeet.

73 N5SNN
--
Paulus Suryono Adisoemarta, Ph.D.
Assistant Professor
Petroleum Engineering Dept. paulus@...
Texas Tech University, Lubbock TX N5SNN / YG1QN

1777. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 16:14:40 UTC
From: Harry M
Topic: 1772 Message: 1777

That's what I've been doing, knowing that the PT's in the past have drifted.
I've scanned all the way from 144.000-145.000...Nothing!
If it's even putting out 10mw at altitude, I'll hear it.

Thanks!

>
> Also try to scan upwards from .34 slowly to .38
> On my PT both (went dead or drifting up) had happened, also at around
40Kfeet.
>

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1778. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 16:26:55 UTC
From: Harry M
Topic: 1772 Message: 1778

I just ran a prediction using DDC data.
using 800 fpm/up & 1800 fpm/dn I show
a landing between Burdick with a 100k burst
to Harveyville with a 120k burst.

1779. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 17:09:21 UTC
From: Ralph Wallio, W0RPK
Topic: 1772 Message: 1779

!00-120kft burst would have happened 15:45-16:15z. Traveler has landed or is close to it.

For DFing, the Pocket Tracker has a 10MHz crystal driving the PIC16F628 TT3 and an 8MHz crystal driving an MC145170 PLL.

-w0rpk

1780. Re: [GPSL] Lost signal from Project:Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 17:26:00 UTC
From: Paulus Adisoemarta
Topic: 1772 Message: 1780

According to Ralph Wallio, W0RPK:
>
>!00-120kft burst would have happened 15:45-16:15z. Traveler has landed or
>is close to it.
>
>For DFing, the Pocket Tracker has a 10MHz crystal driving the PIC16F628 TT3
>and an 8MHz crystal driving an MC145170 PLL.

Good info that we can use next time.

Now, if that pocket tracker comes to alive after hitting (or close to) ground, which happened on our last flight, then you'll hear white noise in the background at 144.34 MHz at the beacon interval (mine was set every 30 seconds so it was often enough). Too low to be decoded but still can be distinghuised from background noise.

We used this white noise last time to DF the payload (note, must ask all chase vehicles to stop beaconing their own on .34).
This white noise can be heard up 2-3 miles, and only when we're close to around one hundred yard we can start decoding the packet to pin-point the location. A TNC with Open-DCD mod for open squelch operation would be very beneficial in this situation.

73 de N5SNN

1781. Re: [GPSL] Project:Traveler airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-29 23:09:25 UTC
From: Zack Clobes
Topic: 1769 Message: 1781

Thanks for all of your assistance in tracking. Here's the sequence of events.

Launch at 8:33am this morning in heavy winds. It was exciting, but it got off the ground with a 700-850'/min ascent.

Tracking was fine to just outside of McPherson. We lost all signal.

We stopped near 38 23.65N 96 57.72W and had a visual on the balloon at 10:35 at an estimated 80k. It appeared to be just slightly east of us and heading east. Unfortunately we made a critical error in trading a visual contact for a flushing toilet. We should have split company at that point, but we didn't. Oh well.

We arrived in Herington around 10:50 and were not able to regain visual, however cloud cover was increasing at that point.

By 11:20, we decided to stop and eat lunch before heading toward the predictions to allow the package to hopefully warm up and regain transmissions.

We drove to Council Grove area and split up scanning the area. Jon's vehicle wound up with two flat tires near Diamond Springs, and with only one spare, we were in a bit of a pickle. We finally got four "usable" tires on the van and limped it home after driving back down 57 to HW 50 and home. We never heard any packets.

That area is mostly open range with very few decent roads. There aren't a lot of farmers around there to find it during plowing or harvest either. We'll see what happens.

Thanks for all of your assistance...
Zack Clobes, W0ZC
Project: Traveler

Harry M wrote:

>
> I lost all signal from PT at about 40,000 ft.
>
> hhm
> -----
>
>
>
> It appears Zack got his balloon off the ground even with the 30mph
> gusts at Hutchinson. KC5TRB is picking up some data from Tulsa.

> So far nothing heard here in Bellevue NE yet, but it's probably
> near or a little below my horizon now.
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

1782. Re: [GPSL] Project:Traveler airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 01:06:53 UTC
From: Harry M
Topic: 1769 Message: 1782

Maybe an aerial search is in order Zack,
Are there any pipeline pilots that fly the area?
You can call a few airports in the area and see
who might be going over the area.

GLuck finding it!

73 Harry KC5TRB

Here's all the data I decoded from the flight.

(Courier New 10pt)

2005c_102905 - de KC5TRB (PASSALL ON)

----- KC5TRB APRS Plus Log Opened at 2005/10/29 12:13:22

W0WR-1>APT311:/135934h3;12.94N\09172.70TCð42/020/!=0221 U
WpVR-1>P431):^b
W0WR-3>APT311:/140335h3813.84N\09741.45Ws058/026/A=025687
W0WR-11>APT311:>Project T`aveler
W0WR-11>APT311:/140420hs914.04N\09741.14Ws056/027/A=026343
W0WR-11>APT311:/140550h3814.51N\09740.53Ws046/029/A=027636
W0WR-11>APT311:/140620h3814.71N\09740.32Ws045/031/A=028036
W0WR-11>APT311:/14075Qh3815.35N\09739.74Ws041/034/A=029*04
W0WR-11>APT017:#140835h3825.68N\09739.42Ws042/037/A029735
W0WR-11>APT311:>Project Traveler
W0WR-11>APT311:/140906h3815.91N\09739.18Ws042/039/A=030152
W0WR-11>APT311:/140936h3816.13N\09738.93Ws044/036/A=030532
W0WR-11>APT311:/140951h381.24N\09738.81Ws040/033/A)030752
W0WR-11>APT311:>Project Traveler
W0WR-11>APT311:/141051h3816.64N\09738.30Ws050/<34/A1031582
W0WR-11>APT341:/141121h3816.83N\09738® 4Ws048/032/A=032022
W0WR-11>APT311:/141136h3816.93N\09737.92Ws044/035/A=032242
W0WR-11>APT311:/141206h3817.12N09737.68Ws038/032/A=032694
1WR-11>APT311:/141221h3817.23N\09737.55Ws040/032/A=032921
WWR-11>APT311:/11336h5817.7°L\0973ö.9´V³03./030/A=034066
W0WR-11>APT311:>Pr/hect Traveler
W0WR-11>APT311:/141522h3818.37N\0Y736.09Ws047/030/A=035240
W0WR-11>APT311:7141607h3818.6=N\09735.68Ws044/039/A=035722
W0WR-11>APT+11:/141707h3819.09N\09735.11Ws091/038/A=036418
W0OR-11>APT311:/141722h3819.15N\09734.96Ws045/039/A=036585
W0WR-11>APT311:/14652h3819.40N\09734.69Ws046/034/A=036936
W$WR-11>APT311:/141822h3¸!9.5!N\097³0.44Ws04 /030/A=037294
W0WR-11>A\T311:/141837h3819.69N\09734.31Ws043/034/A=037464

```
W0WR-11>APT311:>Project Traveler
W0WR-11>APT311:/141452h3819.;9N\09734.20Ws045/034/A=037635
W0WR-11>APT311:/141907h3819.90N\09734.0 Ws042/031/A=037809
W0WR-11>APT311:/141922h3820.01N\09733.97Ws039/033/A=037993
W0WR-11>APT311:/142022h382P.50N\09733.47Ws037/033/A=038718
W0WR-11>APT311:/142037h3820.62N\09733.35Ws036/036/A=038895
W0W2-11>APT311:>PZojecx Traveler
W0WR-11>APT311:/142053h3820.75N\09733.22Ws039/042/A=039065

# ----- KC5TRB APRS Plus Log Closed at 2005/10/29 17:11:14
```

1783. Project Traveler

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 01:39:18 UTC
From: Jon Riley
Topic: 1783 Message: 1783

I might have data on the packege.I went over the logs,and if I am reading it correct ,I might have altitude reports. I need to talk to Zack first.

Jon
Project Traveler

1784. Re: [GPSL] Project:Traveler airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 03:55:51 UTC
From: Zack Clobes
Topic: 1769 Message: 1784

Unfortunately there isn't much in airports in the area, and being such a small payload, I think it'd be virtually impossible to see from the air.

We toyed with the idea of going up to listen for RF this afternoon, but with the wind blowing like it was, we didn't figure two many light planes would want to fly. That and we weren't 100% convinced that there would be any RF to hear.

I hope there are lots of hunters that walk that area in the fall.....
Zack

Harry M wrote:

>
> Maybe an aerial search is in order Zack,
> Are there any pipeline pilots that fly the area?
> You can call a few airports in the area and see
> who might be going over the area.
>
> GLuck finding it!
>
> 73 Harry KC5TRB
>
> -----
>
> Here's all the data I decoded from the flight.
>
>
> (Courier New 10pt)
>
> 2005c_102905 - de KC5TRB (PASSALL ON)
>
> # ----- KC5TRB APRS Plus Log Opened at 2005/10/29 12:13:22
>
> W0WR-1>APT311:/135934h3;12.94N\09172.70TC?42/020/!=0221 U
> WpVR-1>P431):^b
> W0WR-3>APT311:/140335h3813.84N\09741.45Ws058/026/A=025687
> W0WR-11>APT311:>Project T`aveler
> W0WR-11>APT311:/140420hs914.04N\09741.14Ws056/027/A=026343
> W0WR-11>APT311:/140550h3814.51N\09740.53Ws046/029/A=027636
> W0WR-11>APT311:/140620h3814.71N\09740.32Ws045/031/A=028036
> W0WR-11>APT311:/14075Qh3815.35N\09739.74Ws041/034/A=029*04
> W0WR-11>APT017:#140835h3825.68N\09739.42Ws042/037/A029735
> W0WR-11>APT311:>Project Traveler
> W0WR-11>APT311:/140906h3815.91N\09739.18Ws042/039/A=030152
> W0WR-11>APT311:/140936h3816.13N\09738.93Ws044/036/A=030532

> W0WR-11>APT311:/140951h381.24N\09738.81Ws040/033/A)030752
> W0WR-11>APT311:>Project Traveler
> W0WR-11>APT311:/141051h3816.64N\09738.30Ws050/<34/A1031582
> W0WR-11>APT341:/141121h3816.83N\09738? 4Ws048/032/A=032022
> W0WR-11>APT311:/141136h3816.93N\09737.92Ws044/035/A=032242
> W0WR-11>APT311:/141206h3817.12N09737.68Ws038/032/A=032694
> 1WR-11>APT311:/141221h3817.23N\09737.55Ws040/032/A=032921
> WWR-11>APT311:/11336h5817.7?L\0973?.9?V?03./030/A=034066
> W0WR-11>APT311:>Pr/hect Traveler
> W0WR-11>APT311:/141522h3818.37N\0Y736.09Ws047/030/A=035240
> W0WR-11>APT311:7141607h3818.6=N\09735.68Ws044/039/A=035722
> W0WR-11>APT+11:/141707h3819.09N\09735.11Ws091/038/A=036418
> W0OR-11>APT311:/141722h3819.15N\09734.96Ws045/039/A=036585
> W0WR-11>APT311:/14652h3819.40N\09734.69Ws046/034/A=036936
> W$WR-11>APT311:/141822h3?!9.5!N\097?0.44Ws04 /030/A=037294
> W0WR-11>A\T311:/141837h3819.69N\09734.31Ws043/034/A=037464
> W0WR-11>APT311:>Project Traveler
> W0WR-11>APT311:/141452h3819.;9N\09734.20Ws045/034/A=037635
> W0WR-11>APT311:/141907h3819.90N\09734.0 Ws042/031/A=037809
> W0WR-11>APT311:/141922h3820.01N\09733.97Ws039/033/A=037993
> W0WR-11>APT311:/142022h382P.50N\09733.47Ws037/033/A=038718
> W0WR-11>APT311:/142037h3820.62N\09733.35Ws036/036/A=038895
> W0W2-11>APT311:>PZojecx Traveler
> W0WR-11>APT311:/142053h3820.75N\09733.22Ws039/042/A=039065
>
> # ----- KC5TRB APRS Plus Log Closed at 2005/10/29 17:11:14
>
> --
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1785. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 04:42:30 UTC
From: Mike Manes
Topic: 1767 Message: 1785

That's happened twice with NX0G's PT on EOSS test flights. Methinks
a little power dissipation is not a bad thing for a balloon payload
that's gonna go thru -80C in the tropopause.

73 de Mike W5VSI

Harry M wrote:
>
> I lost all signal from PT at about 40,000 ft.
>
> hhm
> -----
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>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1786. Re: [GPSL] Project:Traveler airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 14:12:35 UTC
From: Harry M
Topic: 1769 Message: 1786

Here is the info on the pipeline pilot I got a hold
of when OSU lost ASTRO-1 near Blackwell, Ok last year.
He was more than willing to help and has a good set of
eyes. If he doesn't fly your area he might provide a
contact for you.

Tim Wegenast
316-323-4272
Eldorado, Kansas

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

Unfortunately there isn't much in airports in the area, and being such a small payload, I think it'd be virtually impossible to see from the air.

1787. RE: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 19:46:40 UTC
From: Mark Conner
Topic: 1767 Message: 1787

I almost wonder if it isn't pressure instead of temperature. In daylight, most any payload will hold its temperature reasonably well. I've studied this on a number of NSTAR flights and on ascent the temps stay above -10C even with minimal insulation. The internal temperatures even increase as you exceed 60,000 ft or so.

Perhaps a component is going out of spec due to low air pressure. Failure at 30,000 to 50,000 ft seems to the common altitude for it to happen. If it were purely temperature I think we'd see more variation than we have due to insulation and solar heating differences. Perhaps a capacitor or coil on the PocketTracker has a problem at low pressure. I believe the PocketTrackers have been tested for cold, but perhaps not for pressure (other than various flights).

73 de Mark N9XTN

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Saturday, October 29, 2005 23:42
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Project: Traveler to fly this morning

That's happened twice with NX0G's PT on EOSS test flights. Methinks a little power dissipation is not a bad thing for a balloon payload that's gonna go thru -80C in the tropopause.

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Harry M wrote:
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> I lost all signal from PT at about 40,000 ft.
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.

Einstein

Yahoo! Groups Links

1788. Re: [GPSL] PocketTracker discussion

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 23:26:59 UTC
From: wb8elk@aol.com
Topic: 1788 Message: 1788

I've flown several PocketTrackers and have never had one fail on me during flight as long as I tune the VCO voltage to about 2.8 volts or so. I have had situations where something changes (baud rate or frequency?) so that my D7A and the D700 cannot decode the packets but my old KPC-3 still can....this can be corrected using the Calibration value on the PocketTracker setup. I did notice during a recent flight that I could decode better about 5 kHz higher in frequency when it was above 40k feet. This problem usually crops up above 40 to 50k feet and after that I only start to track it again on my Kenwood gear after it comes down through 20k on the return. Once the Calibration value is set for high altitude flight it usually isn't a problem. We did some testing by changing the Calibration value on the PocketTracker on the workbench and seeing how far it could be changed and still be decoded by various TNC's....the Kenwood D7A and D700 were very tight and unforgiving....the KPC-3 worked for a much wider range of values.

The only total failure modes I've seen is when the internal temperature drops below -40 after sunset (more likely due to battery failure) and also dropping them in oceans and rivers tend to cause them to fail....I've done this to 3 PocketTrackers now....the one that spent a week in the Tennessee River is all green inside but I haven't tried to power it up yet...the other 2 are in the Bermuda Triangle....I imagine there are some puzzled scientists in Atlantis trying to figure out what they are.

73s de Bill WB8ELK

1789. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-31 00:45:52 UTC
From: Mike Manes
Topic: 1767 Message: 1789

Well, that's a possibility. But there are no component packages
in the PT that are much different from those that we fly in other
beacons. I do note that the PT VCO is not shielded, unlike those
in every other synthesized radio I've ever looked into. So it's
possible that the VCO free-run freq may be affected by the presence
of the Altoids can lid. I don't think those cans are so well sealed
that the lid would bulge out during ascent, tho.

Just ran an empty Altoids tin up to < 10 mbar (6.5 Torr) in
the EOSS altitude chamber, watching for changes in light reflected
off the surface. Nada. I could run the same test on someone's PT,
but not with any real GPS sigs.

The PT's primary design feature is low power consumption. The only
power consumption while the PT is idle is the timer in the PIC --
that and the GPS receiver, of course. But those two boards are
not closely coupled thermally. And the VCO tank doesn't show any
evidence of positive tempco tuning caps to compensate for the
negative tempco of inductance as the copper coil shinks. And the
chips used are just commercial temp range (0 - 70C), I think.
The "balloon mode" VCO tuning procedure is to set the tuning
voltage higher than normal (higher free-run freq), evidently to
forestall bottoming out Vtune when cold.

This is why I suspect that it's temperature that's getting to
the PT. It might be instructive to log or telemeter the PT
PWB temperature during a flight. Just be sure to use a
non-self-heating transducer.

73 de Mike W5VSI

Mark Conner wrote:
>
> I almost wonder if it isn't pressure instead of temperature. In daylight,
> most any payload will hold its temperature reasonably well. I've studied
> this on a number of NSTAR flights and on ascent the temps stay above -10C
> even with minimal insulation. The internal temperatures even increase as
> you exceed 60,000 ft or so.
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> Perhaps a component is going out of spec due to low air pressure. Failure
> at 30,000 to 50,000 ft seems to the common altitude for it to happen. If it
> were purely temperature I think we'd see more variation than we have due to
> insulation and solar heating differences. Perhaps a capacitor or coil on
> the PocketTracker has a problem at low pressure. I believe the
> PocketTrackers have been tested for cold, but perhaps not for pressure
> (other than various flights).

>
> 73 de Mark N9XTN
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
> Manes
> Sent: Saturday, October 29, 2005 23:42
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Project: Traveler to fly this morning
>
> That's happened twice with NX0G's PT on EOSS test flights. Methinks
> a little power dissipation is not a bad thing for a balloon payload
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> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
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Mike Manes manes@... Tel: 303-979-4899
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Einstein

1790. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-31 01:32:29 UTC
From: Zack Clobes
Topic: 1767 Message: 1790

I know that this PT was not tuned using the Balloon Tuning Instructions.

I tend to agree that the failure was probably because of the PLL losing lock due to temp. The battery was a ?Lith-Poly? pack used by electric airplanes. It was a brand new pack that I believe was tested/cycled thoroughly on the ground. The fact that we suddenly lost comms and were never able to get even a trace of them back is really the only reason that I am keeping an open mind about other possible failures.

The capsule packaging was a new design for us, and had never been tested to sub-0C temperatures. I'm toying with the idea of building another package and cooling it down for comparison purposes. I'll post my results if and when I ever get around to it.. :-)

One thing to keep in mind, this was the first Project: Traveler flight to not have a single linear regulator on board. In a certain respect, I think that amateur ballooning has come to depend on inefficient circuits to provide self-heating.

Zack Clobes, W0ZC
Project: Traveler

Mike Manes wrote:

>Well, that's a possibility. But there are no component packages
>in the PT that are much different from those that we fly in other
>beacons. I do note that the PT VCO is not shielded, unlike those
>in every other synthesized radio I've ever looked into. So it's
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>of the Altoids can lid. I don't think those cans are so well sealed
>that the lid would bulge out during ascent, tho.
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>Just ran an empty Altoids tin up to < 10 mbar (6.5 Torr) in
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>negative tempco of inductance as the copper coil shinks. And the
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>The "balloon mode" VCO tuning procedure is to set the tuning
>voltage higher than normal (higher free-run freq), evidently to

>forestall bottoming out Vtune when cold.
>
>This is why I suspect that it's temperature that's getting to
>the PT. It might be instructive to log or telemeter the PT
>PWB temperature during a flight. Just be sure to use a
>non-self-heating transducer.
>
>73 de Mike W5VSI
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>Mark Conner wrote:
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>>I almost wonder if it isn't pressure instead of temperature. In daylight,
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>>Manes
>>Sent: Saturday, October 29, 2005 23:42
>>To: GPSL@yahoogroups.com
>>Subject: Re: [GPSL] Project: Traveler to fly this morning
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>>Mike Manes manes@... Tel: 303-979-4899
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1791. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-31 17:38:40 UTC
From: wb8elk@aol.com
Topic: 1767 Message: 1791

Hi Zack,

The next question I was going to ask was about the battery you had flown on the PT...I typically use the Ultralife lithium 9-volt. Since you died out abruptly, here's a thought:

On my very first balloon flight, I suddenly lost power at around 50 to 60,000 feet...I was running Kodak lithium flat polymer batteries....one theory that was posed at the time was that the flat plastic batteries had expanded due to the vacuum and the cells had lost continuity....perhaps a good test would be to run that R/C polymer battery in a vacuum chamber like EOSS possesses and see what happens to it.

However, since you PT didn't have it's VCO compensated for balloon flight temperatures, then that's a good likelihood for your failure...I drill a hole in the Altoids tin so I can access the VCO tuning coil with the Altoids lid shut, otherwise it's almost impossible to adjust.

73s de Bill WB8ELK

1792. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-30 17:57:00 UTC
From: Harry M
Topic: 1767 Message: 1792

FYI - One cell of an Eveready 2CR5 vented/failed at
about 30kft on ORB-14 which led to the cutdown failing.

I have not tried another of these batteries.

hhm

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

The next question I was going to ask was about the battery you had flown on the PT...I typically use the Ultralife lithium 9-volt. Since you died out abruptly, here's a thought:

1793. RE: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-31 18:01:27 UTC
From: Doug Loughmiller
Topic: 1767 Message: 1793

Good Afternoon Bill and Others,

I am putting a PT together for use on upcoming balloon flights. I'm afraid I am not familiar with the VCO tuning for balloon use. Where would I find the details for that? Has somebody written up a tuning procedure specifically for balloon use?

Thanks for the help.

73,

Doug Loughmiller, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Monday, October 31, 2005 11:39 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Project: Traveler to fly this morning

Hi Zack,

The next question I was going to ask was about the battery you had flown on the PT...I typically use the Ultralife lithium 9-volt. Since you died out abruptly, here's a thought:

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However, since you PT didn't have it's VCO compensated for balloon flight temperatures, then that's a good likelihood for your failure...I drill a hole in the Altoids tin so I can access the VCO tuning coil with the Altoids lid shut, otherwise it's almost impossible to adjust.

73s de Bill WB8ELK

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1794. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-10-31 20:51:15 UTC
From: wb8elk@aol.com
Topic: 1767 Message: 1794

The main tuning coil is adjusted with the Altoids can closed....and measure the VCO voltage test point on the PT board to read approx 2.8 to 3.0 volts....that is what has worked best for me.

- Bill WB8ELK

1795. Reusable balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-01 02:39:27 UTC
From: Nikhil Paruchuri
Topic: 1795 Message: 1795

hi ,

I am planning to do a few tests with tethered balloons. Since these balloons won't be used for a complete flight, I was looking for a reusable balloon . Any ideas ? My payload weighs about 16 pounds.

Nikhil

1796. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-01 18:18:39 UTC
From: Zack Clobes
Topic: 1767 Message: 1796

We've flown these types of batteries before. I don't believe that there's anything inherently wrong with the type, however being a virgin battery, I could see possibly having some sort of defect in it that was pressure sensitive.

Zack

wb8elk@... wrote:

> Hi Zack,
>
> The next question I was going to ask was about the battery you had
> flown on the PT...I typically use the Ultralife lithium 9-volt. Since
> you died out abruptly, here's a thought:
>
> On my very first balloon flight, I suddenly lost power at around 50
> to 60,000 feet...I was running Kodak lithium flat polymer
> batteries....one theory that was posed at the time was that the flat
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> impossible to adjust.
>
> 73s de Bill WB8ELK
>
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> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&

w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ>
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1797. PT

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-01 20:57:58 UTC
From: J B
Topic: 1797 Message: 1797

Bill: Thanks for the information about re-tuning the packet tracker....we lost contact with it on the last flight...so it is now set at 2.97v, and we do use the Ultralife lithium batteries...

Will let you know how it goes. We fly again this Saturday...will be on 144.34

Thanks Jack, WY0F

_____
Yahoo! FareChase: Search multiple travel sites in one click.
http://farechase.yahoo.com

1798. Re: [GPSL] Project: Traveler to fly this morning

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-02 04:31:11 UTC
From: Mike Manes
Topic: 1767 Message: 1798

Hi Zack,

Yeah, a secondary motto for balloonacy might be "a little more heat".

What I find ironic about the excess of zeal that went into the PT's pea-power design is that the GPS itself consumes way more power all by itself than does a vanilla TT3 and DJC1.

Which opens the possibility of coupling heat from the GPS into the PT?

73 de Mike W5VSI

Zack wrote:

One thing to keep in mind, this was the first Project: Traveler flight to not have a single linear regulator on board. In a certain respect, I think that amateur ballooning has come to depend on inefficient circuits to provide self-heating.

Zack Clobes, W0ZC
Project: Traveler
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1799. Re: [GPSL] Reusable balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-02 06:51:50 UTC
From: Mike Manes
Topic: 1795 Message: 1799

Hi Nikhil,

If you're trying to save money by reusing a latex after a tethered test, then it would be a lot safer to use a much smaller and cheaper balloon filled to near burst diameter for the tether tests, and use a fresh big balloon, like a 2000 or 3000 gram, which has not been damaged by handling and UV exposure for your free flight.

Per Liftwin 0.41, a 200 gm Totex could lift 16 lb and still leave 4 lb tension left on your tether line. Not sure the neck is strong enough to hold 20 lb, but if it isn't, you havn't lost much money, except for the Helium.

73 de Mike W5VSI

Nikhil Paruchuri wrote:
>
> hi ,
>
> I am planning to do a few tests with tethered balloons. Since these
> balloons won't be used for a complete flight, I was looking for a
> reusable balloon . Any ideas ? My payload weighs about 16 pounds.
>
> Nikhil
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1800. RE: [GPSL] Digest Number 489

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-03 00:42:13 UTC
From: nikhil paruchuri
Topic: 1800 Message: 1800

Hi Mike,

Thanks on your input regarding using small latex balloons. What I would ideally like to use is a plastic balloon , which can filled up with helium and sealed. Once I am done testing the plastic balloon, I would let the helium out and I could reuse the balloon for my next test at a later date.

any ideas?

Nikhil

>From: GPSL@yahoogroups.com
>Reply-To: GPSL@yahoogroups.com
>To: GPSL@yahoogroups.com
>Subject: [GPSL] Digest Number 489
>Date: 2 Nov 2005 19:22:37 -0000
>
>
>There are 2 messages in this issue.
>
>Topics in this digest:
>
> 1. Re: Project: Traveler to fly this morning
> From: Mike Manes <manes@...>
> 2. Re: Reusable balloons
> From: Mike Manes <manes@...>
>
>
>_____
>_____
>
>Message: 1
> Date: Tue, 01 Nov 2005 21:31:11 -0700
> From: Mike Manes <manes@...>
>Subject: Re: Project: Traveler to fly this morning
>
>Hi Zack,
>
>Yeah, a secondary motto for balloonacy might be "a little more heat".
>
>What I find ironic about the excess of zeal that went into the PT's
>pea-power design is that the GPS itself consumes way more power all
>by itself than does a vanilla TT3 and DJC1.
>
>Which opens the possibility of coupling heat from the GPS into the PT?
>

>73 de Mike W5VSI
>
>Zack wrote:
>
>One thing to keep in mind, this was the first Project: Traveler flight
>to not have a single linear regulator on board. In a certain respect,
>I think that amateur ballooning has come to depend on inefficient
>circuits to provide self-heating.
>
>Zack Clobes, W0ZC
>Project: Traveler
>--
>Mike Manes manes@... Tel: 303-979-4899
>"Things should be made as simple as possible, but not more so." A.
>Einstein
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>_____
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>
>Message: 2
> Date: Tue, 01 Nov 2005 23:51:50 -0700
> From: Mike Manes <manes@...>
>Subject: Re: Reusable balloons
>
>Hi Nikhil,
>
>If you're trying to save money by reusing a latex after a tethered
>test, then it would be a lot safer to use a much smaller and
>cheaper balloon filled to near burst diameter for the tether tests,
>and use a fresh big balloon, like a 2000 or 3000 gram, which has
>not been damaged by handling and UV exposure for your free flight.
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>Per Liftwin 0.41, a 200 gm Totex could lift 16 lb and still leave 4 lb
>tension left on your tether line. Not sure the neck is strong
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>73 de Mike W5VSI
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>Nikhil Paruchuri wrote:
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> > Nikhil
> >
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> > Yahoo! Groups Links
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>Mike Manes manes@... Tel: 303-979-4899
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1801. Re: [GPSL] Digest Number 489

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-03 05:09:45 UTC
From: Mike Manes
Topic: 1800 Message: 1801

Hi Nikhil,

See my off-reflector reply a bit earlier.

Bottom line: latex is tougher and a LOT cheaper than plastic, but
Robert or Mark might be able to guide you on how to roll your own
plastic. Note that the helium necessary to hoist 16 lb ain't gonna
be cheap! Might consider finding a place with a LARGE door that
you could store the inflated balloon in.

Mike

nikhil paruchuri wrote:
>
> Hi Mike,
>
> Thanks on your input regarding using small latex balloons. What I would
> ideally like to use is a plastic balloon , which can filled up with helium
> and sealed. Once I am done testing the plastic balloon, I would let the
> helium out and I could reuse the balloon for my next test at a later date.
>
> any ideas?
>
> Nikhil
>
> >From: GPSL@yahoogroups.com
> >Reply-To: GPSL@yahoogroups.com
> >To: GPSL@yahoogroups.com
> >Subject: [GPSL] Digest Number 489
> >Date: 2 Nov 2005 19:22:37 -0000
> >
> >
> >There are 2 messages in this issue.
> >
> >Topics in this digest:
> >
> > 1. Re: Project: Traveler to fly this morning
> > From: Mike Manes <manes@...>
> > 2. Re: Reusable balloons
> > From: Mike Manes <manes@...>
> >
> >
> >_____
> >_____
> >
> >Message: 1

> > Date: Tue, 01 Nov 2005 21:31:11 -0700
> > From: Mike Manes <manes@...>
> >Subject: Re: Project: Traveler to fly this morning
> >
> >Hi Zack,
> >
> >Yeah, a secondary motto for balloonacy might be "a little more heat".
> >
> >What I find ironic about the excess of zeal that went into the PT's
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> >Zack Clobes, W0ZC
> >Project: Traveler
> >--
> >Mike Manes manes@... Tel: 303-979-4899
> >"Things should be made as simple as possible, but not more so." A.
> >Einstein
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> >_____
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> >
> >Message: 2
> > Date: Tue, 01 Nov 2005 23:51:50 -0700
> > From: Mike Manes <manes@...>
> >Subject: Re: Reusable balloons
> >
> >Hi Nikhil,
> >
> >If you're trying to save money by reusing a latex after a tethered
> >test, then it would be a lot safer to use a much smaller and
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> >73 de Mike W5VSI
> >
> >Nikhil Paruchuri wrote:
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> > > Nikhil
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1802. George Lower -- SK

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-04 23:41:09 UTC
From: Jon Riley
Topic: 1802 Message: 1802

I have bad news to pass along. George Lower , W5TOQ, was killed in a traffic accident this morning.

He will be missed.

Jon Riley
AJ0NR

1803. Congrats to EOSS on your upcoming 100th flight !!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-11 07:29:27 UTC
From: wb8elk@aol.com
Topic: 1803 Message: 1803

To the members of EOSS:

I want to send along my congratulations on making it to flight number 100...that's an amazing accomplishment and a testament to all those who have made EOSS into a successful 15 year institution. Another remarkable achievement is your 100 percent recovery record made possible by your well-organized mission control and recovery team members. I long ago gave up on achieving that kind of recovery record after dropping many payloads into lakes, rivers, alligator-filled swamps and the Bermuda Triangle.

I wish I could be there for the big event, however I will be following along vicariously via the internet.

Congratulations on your historic 100th flight and I will make every effort to attend your 200th !!!

- Bill Brown WB8ELK

1804. RE: [GPSL] Congrats to EOSS on your upcoming 100th flight !!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-11 16:33:11 UTC
From: Marty Griffin
Topic: 1803 Message: 1804

Hello Bill,
Thanks for the good words and for starting this fascinating part of our hobby. Your support over the past 15 years has encouraged EOSS to move forward into new, brave technologies. Your support has enforced our enthusiasm for zealously promoting science through amateur radio and ballooning.

We regret that you could not make this event, but we know you will be watching - and enjoying...
- Marty

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Friday, November 11, 2005 12:29 AM
To: manes@...
Cc: rick@...; GPSL@yahoogroups.com; balloon_sked@yahoogroups.com
Subject: [GPSL] Congrats to EOSS on your upcoming 100th flight !!!

To the members of EOSS:

I want to send along my congratulations on making it to flight number 100...that's an amazing accomplishment and a testament to all those who have made EOSS into a successful 15 year institution. Another remarkable achievement is your 100 percent recovery record made possible by your well-organized mission control and recovery team members. I long ago gave up on achieving that kind of recovery record after dropping many payloads into lakes, rivers, alligator-filled swamps and the Bermuda Triangle.

I wish I could be there for the big event, however I will be following along vicariously via the internet.

Congratulations on your historic 100th flight and I will make every effort to attend your 200th !!!

- Bill Brown WB8ELK

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s73WsoQ> radio

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* To unsubscribe from this group, send an email to:
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<http://docs.yahoo.com/info/terms/> .

1805. Re: Congrats to EOSS on your upcoming 100th flight !!!

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-11 18:31:55 UTC
From: Mike Manes
Topic: 1803 Message: 1805

Hi Bill,

Sorry you couldn't make the Big Event, but we'll sure be thinking
about you as we reminisce about how the heck we ever got here!

And keep the faith, Bill. Every time we launch, we put that recovery
record at risk, and we KNOW that Murphy's been working overtime on
this one!

73 de Mike W5VSI

WB8ELK@... wrote:
>
> To the members of EOSS:
>
> I want to send along my congratulations on making it to flight number
> 100...that's an amazing accomplishment and a testament to all those
> who have made EOSS into a successful 15 year institution. Another
> remarkable achievement is your 100 percent recovery record made
> possible by your well-organized mission control and recovery team
> members. I long ago gave up on achieving that kind of recovery record
> after dropping many payloads into lakes, rivers, alligator-filled
> swamps and the Bermuda Triangle.
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> I wish I could be there for the big event, however I will be
> following along vicariously via the internet.
>
> Congratulations on your historic 100th flight and I will make every
> effort to attend your 200th !!!
>
> - Bill Brown WB8ELK
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1806. Interesting alternative to a slingshot for retrieving payloads from trees

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-11 20:36:07 UTC
From: wb8elk@aol.com
Topic: 1806 Message: 1806

I just bought something called the "Cable Caster" from Home Depot...it was in their wiring/electrical department and is designed to launch line across false ceilings for wiring.

It works the same way as those kid's toy suction cup gun dart launchers only this one is on steroids with a fishing reel attached.

It will shoot the dart (attached to the fishing line) at least 50 feet straight up and perhaps a bit further and is very very accurate....just push the dart into the gun until it latches, release the fishing reel mechanism, aim and shoot.

Although it won't reach the really difficult tree landings that are 100 feet up....this is a great addition/alternative for those of us who are slingshot challenged.

It's made by Greenlee and is about $45 and comes with 3 darts and the attached fishing reel.

- Bill WB8ELK

1807. Re: [GPSL] Interesting alternative to a slingshot for retrieving payloads from trees

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-11 23:25:23 UTC
From: Paulus Adisoemarta
Topic: 1806 Message: 1807

According to wb8elk@...:
>
>
>It's made by Greenlee and is about $45 and comes with 3 darts and the
>attached fishing reel.

I use this to run network cables above the ceiling tiles, pretty handy
and accurate too.

Paulus N5SNN

--
Paulus Suryono Adisoemarta, Ph.D.
Assistant Professor
Petroleum Engineering Dept. paulus@...
Texas Tech University, Lubbock TX N5SNN / YG1QN

1808. Re: [GPSL] Interesting alternative to a slingshot for retrieving payloads from trees

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-13 04:19:56 UTC
From: Mike Manes
Topic: 1806 Message: 1808

I think Bill was expecting to use it "off label" as a means of
snagging balloon payloads from trees -- like the beautiful ones
in EOSS's recovery area - all both of 'em :=}. Power lines,
however ... :={.

73 de Mike W5VSI, EOSS

Paulus Adisoemarta wrote:
>
> According to wb8elk@...:
> >
> >
> >It's made by Greenlee and is about $45 and comes with 3 darts and the
> >attached fishing reel.
>
> I use this to run network cables above the ceiling tiles, pretty handy
> and accurate too.
>
> Paulus N5SNN
>
> --
> Paulus Suryono Adisoemarta, Ph.D.
> Assistant Professor
> Petroleum Engineering Dept. paulus@...
> Texas Tech University, Lubbock TX N5SNN / YG1QN
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1809. Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-14 23:18:03 UTC
From: Zack Clobes
Topic: 1809 Message: 1809

As was decided over the past couple of months, GPSL 2006 will be held in Hutchinson, KS on the weekend of 4-6 August. We plan on following the traditional schedule of symposium on Friday (4 Aug), flight on Saturday morning, and a rain-date of Sunday morning.

Hutchinson has a brand new (more or less, it's a long story) convention center in town that is part of a nice hotel, and includes an indoor water park. (http://www.grandprairiehotel.com/)

I have contacted Grand Prairie regarding use of a conference room. It basically boils down $125 for the Symposium on Friday, assuming we eat a meal or two at the restaurant. The obvious choices for that meal would be the Thursday evening "gathering" and the Friday lunch.

"Group" room rates are $79 + tax per room night. This includes access to the water park as well as high-speed Internet. We would be expected to reserve approximately 30 rooms for Friday night.

Food prices a little on the high end - think Applebees + 20%, although the serving size is probably 20% larger also. And very good food I might add.

They've agreed to provide water, and allow us to supply our own candy dishes during the Symposium. There is the restaurant that is 100' down the hall, and also a pop and ?candy? machine on premises.

THE QUESTION IS, DOES THE GROUP WANT TO COMMIT TO SPENDING MONEY FOR THIS EVENT? I will keep prices as low as possible, but I'm toying with the thought of charging each flying group a ?$25? "landing fee" to attend the event.

Zack Clobes, W0ZC
Project: Traveler

1810. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 02:08:08 UTC
From: wb8elk@aol.com
Topic: 1809 Message: 1810

Zack,

That sounds good to me....and no problem on the $25 flight fee to cover costs.

- Bill WB8ELK

1811. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 02:31:11 UTC
From: Keith Kaiser
Topic: 1809 Message: 1811

I guess I have to agree, $25.00 each seems very fair.

On 11/14/05, wb8elk@aol.com <wb8elk@...> wrote:
> Zack,
>
> That sounds good to me....and no problem on the $25 flight fee to cover
> costs.
>
> - Bill WB8ELK
>
> _____
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YIS/YIV
Keith D Kaiser -- Venturing Roundtable Commissioner
kaiserklan.com
kaiserklan.com/roundtable
kaiserklan.com/wa0tjt
keith.kaiser@gmail.com

1812. Sky Trek to the 'Near Space' Neighborhood

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 10:24:25 UTC
From: Ralph Wallio, W0RPK
Topic: 1812 Message: 1812

Sky Trek to the 'Near Space' Neighborhood
Space.com, November 9, 2005

Near Space is a region where few aircraft can tread. Floating high above the jet stream, lighter-than-air ships are now deemed as a way to loiter at length. They appear ideal for keeping tabs on a foe's troops or delivering telecommunications services to your own warriors.

From on-high, sensor-laden platforms might gaze at weather or monitor a huge expanse of airspace as part of a ballistic missile defense shield. Supporters of high-altitude platforms contend they can deliver services on a par with Earth orbiting spacecraft-at far lower cost.

General Lance Lord, Commander of the Air Force Space Command, touched upon emerging Near Space attributes at an October 20th Pacific Space Leadership Forum in Hawaii. Near Space is between 65,000 feet (20 kilometers) and 325,000 feet (99 kilometers) above sea level.

"The fact is space has transformed the modern battlefield. We are more precise, more efficient, and more combat effective because of space. We are also less destructive, less likely to inflict collateral damage, and less likely to go to war because of space," Lord said. "If you can tie it to a balloon you can get it to Near Space, our prototyping efforts with communication and imagery platforms [are] showing promise towards giving us a low cost persistent world-wide presence."

Trial runs

Lord's keenness was bolstered by Near Space demonstrations done earlier this year by the U.S. Air Force Space BattleLab at Schriever Air Force Base, Colorado. Tests of balloon-borne ground-to-ground and ground-to-air communications systems were staged to show the effectiveness of a low-cost, simple solution to meeting warfighter communication needs.

The trial runs involved balloon-borne SkySite command and control platforms developed by Space Data Corporation of Chandler, Arizona. Space BattleLab is now adapting this system to provide a platform for its Combat SkySat communications system, part of the laboratory's Near Space initiative.

Near Space is an altitude that is virtually unused currently - higher than planes fly, but below satellites. It is also a height that is above weather and most weapons systems that can do you harm, explained a BattleLab's statement on the tests.

In addition to this activity, also on the BattleLab's current initiatives roster is a Combat Sentinel Near Space and a Near Space Maneuvering Vehicle project.

Disposable spy ships

The Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland is delving into unpiloted spy ships too, but of the disposable kind.

The High Altitude Reconnaissance Vehicle (HARVe) would operate in Near Space, staying in one spot for roughly two weeks to 30 days. It would supply to military officials on the ground 24/7 (24 hours a day, 7 days a week) coverage of select areas on Earth.

According to APL's Bob Behler, Precision Engagement's business area executive and the project lead, the HARVe would be ejected from either a cruise missile or possibly a reusable rocket. A second booster would propel the vehicle to about 300,000 feet above sea level, and then the ship would inflate and descend to hover over a target area at about 100,000 feet.

HARVe could carry out radar and imaging missions, protect and track friendly forces, appraise battle damage and carry communications nodes. After the two weeks to a month, the vehicle would either disintegrate or be destroyed.

Anchoring in the right location

"We see the use of high-altitude, lighter-than-air vehicles in the 70,000 to 100,000 foot range as a tremendous, real asset to communications, surveillance and target acquisition for the military," said Tom Millett, Executive Vice President of Millennium Airship Incorporated (MAS). The company's corporate offices are located at Bremerton National Airport in Port Orchard, Washington.

Millett said, however, that several significant problems need to be overcome.

"The primary one is the ability to recharge the air vehicle's power source," Millett told SPACE.com, noting that passive regeneration of batteries does not handle the electrical load required. "We have the ability to regenerate the air vehicle power through a laser source. While this system is still in development, it shows great promise," he added.

One other issue is anchoring the air vehicle in the right location. Within its proprietary technology toolbox, MAS has a very small position control system that could solve this issue, Millett noted.

As for the overall utility of high-altitude air vehicles, Millett said they would be cheaper to launch and maintain than satellites and could be placed in strategic locations very easily.

Numerous benefits

There are, however, several overall problems to be resolved-such as weight to be placed high above terra firma, durability of the air vehicle, power regeneration, and several others. But Millett said "we believe the benefits of high-altitude air vehicles are numerous and would be a very economical solution to communications over specific regions on the globe."

Millennium Airship has recently steered its design talents toward a "SkyFreighter". This heavy-lift, but lower-altitude flying vehicle is envisaged as augmenting the already burdened sea and air cargo business.

Other countries are eyeing large stratospheric airships too.

For one, an aeronautic research arm of the Japan Aerospace Exploration Agency (JAXA) is sponsoring the Stratosphere Platform Project. They see a network of huge unpiloted airships that stay afloat high in the stratosphere, outfitted with telecommunications gear and sensors. From their aerial positions, broadcasting, Earth observation, and disaster monitoring could be executed.

Service by "Stratellite"

Then there's Sanswire Networks, LLC, engaged in "out of the atmosphere thinking". The firm is taking their wireless broadband network ideas to new heights. Sanswire Networks is a wholly owned subsidiary of GlobeTel Communications Corporation of Pembroke Pines, Florida.

Sanswire is prototyping a High-Altitude Airship Platform. Called a "Stratellite", it would transmit various types of wireless communications services currently handled from cell towers and satellites.

A Stratellite airship is 100 percent reclaimable, utilizing proprietary lifting gas technology. A concept, company officials report, could be exploited for many military and government uses like secure communications, border control, Homeland Security duties, Earth remote sensing and surveillance, battlefield control, as well as climate research.

I am the Walrus

In August, the Defense Advanced Research Projects Agency (DARPA) awarded two contractors first phase dollars for the Walrus program-a heavier-than-air vehicle that produces lift through advanced breakthrough technologies in aerodynamics, thrust vectoring and gas buoyancy generation and management.

Lockheed Martin Corporation's Advanced Development Programs of Palmdale, California and Aeros Aeronautical Systems Corporation of Tarzana, California were granted roughly $3 million each in funds.

DARPA's Walrus wishes are to develop and evaluate a very large airlifter. In particular, Walrus is seen as moving loads of up to 1,000 tons across international distances. Supporters of the concept foresee a complete Army brigade carried by Walrus, right from "the fort to the fight."

Airship traffic

Given the fact that airship work appears to be on the rise-from lower altitudes all the way up to stratospheric heights-what about classes of these sky trekking airships able to transport rubbernecking tourists?

That idea hasn't escaped one team of architects. The hotel and resort designer group, Wimberly Allison Tong & Goo (WATG), has already sketched out

some thoughts on a comfy-looking airship hotel.

And back in 2000, a study group of the International Space University (ISU)-comprised of 40 young professionals from 21 nations-produced the report: Space Tourism -- from Dream to Reality. The study was done as part of ISU's summer session, held at the Universidad T?cnica Federico Santa Mar?a in Valparasio, Chile.

One of their comments was that high-altitude balloon flights carrying passengers could help generate public interest in suborbital and orbital jaunts.

1813. Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 15:07:08 UTC
From: kc0mic
Topic: 1813 Message: 1813

CAPNSPACE and Near Space Ventures are planning on hosting a couple of "Near Space" workshops next year. Does anyone know if there are 'kits' for a balloon sat that would have a modified or modifieable digital camera, timer, HOBO, etc.

If not does anyone have a recommendation for a reasonably priced digital camera that could become a 'standard' if we have to source our own kits. That would go for timers, sensors, data recorders, etc too.

Any ideas or suggestions would be greatly appreciated.

Thanks

73 de Troy, KC0MIC

1814. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 19:31:17 UTC
From: Mike Manes
Topic: 1809 Message: 1814

Hi Zack,

The lecture hall at the college sure was a great venue for GPSL
'04, and it didn't tie any of the attendees to pricey accomodations.
Wouldn't that work again?

The $25 "landing fee" isn't an issue for EOSS, however.

73 de Mike W5VSI
EOSS

Zack Clobes wrote:
>
> As was decided over the past couple of months, GPSL 2006 will be held in
> Hutchinson, KS on the weekend of 4-6 August. We plan on following the
> traditional schedule of symposium on Friday (4 Aug), flight on Saturday
> morning, and a rain-date of Sunday morning.
>
> Hutchinson has a brand new (more or less, it's a long story) convention
> center in town that is part of a nice hotel, and includes an indoor
> water park. (http://www.grandprairiehotel.com/)
>
> I have contacted Grand Prairie regarding use of a conference room. It
> basically boils down $125 for the Symposium on Friday, assuming we eat a
> meal or two at the restaurant. The obvious choices for that meal would
> be the Thursday evening "gathering" and the Friday lunch.
>
> "Group" room rates are $79 + tax per room night. This includes access
> to the water park as well as high-speed Internet. We would be expected
> to reserve approximately 30 rooms for Friday night.
>
> Food prices a little on the high end - think Applebees + 20%, although
> the serving size is probably 20% larger also. And very good food I
> might add.
>
> They've agreed to provide water, and allow us to supply our own candy
> dishes during the Symposium. There is the restaurant that is 100' down
> the hall, and also a pop and ?candy? machine on premises.
>
> THE QUESTION IS, DOES THE GROUP WANT TO COMMIT TO SPENDING MONEY FOR
> THIS EVENT? I will keep prices as low as possible, but I'm toying with
> the thought of charging each flying group a ?$25? "landing fee" to
> attend the event.
>
> Zack Clobes, W0ZC
> Project: Traveler

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1815. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 19:37:47 UTC
From: PAUL VERHAGE
Topic: 1809 Message: 1815

I'll be staying with family, so the hotel isn't an issue for me. If the cost of the accomodations don't scare people away, they sound fine.

Paul

Zack Clobes wrote:
>
> As was decided over the past couple of months, GPSL 2006 will be held in
> Hutchinson, KS on the weekend of 4-6 August. We plan on following the
> traditional schedule of symposium on Friday (4 Aug), flight on Saturday
> morning, and a rain-date of Sunday morning.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
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Yahoo! Groups Links

1816. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 19:41:41 UTC
From: n9xtn@cox.net
Topic: 1813 Message: 1816

There are a couple of digital cameras at Wal-Mart that are reasonably priced and may be worth investigating for modification purposes. One is about $40 and is a 2Mpixel camera with no LCD display (obviously not a big deal for balloons). The other is $60 and 3 Mpixels with a display. I imagine they will be as easy to modify as the Concord 4060AF that several of us are using. However, I don't know of anyone who has modified one yet.

In the Wal-marts around here (Omaha metro), they are hanging on the wall next to the 1-hr photo section along with the SD/CF/xD cards.

I've also had thoughts of redesigning Paul's Basic Stamp 2 boards. I would include provisions for a MAX186 A/D converter and some EEPROM I2C chips on the same board. It might be nice to have a run of a couple dozen boards - I've used expresspcb.com with good results for their MiniBoard service and the cost would be $20/board (double-sided, no silkscreen, plated/tinned). This could be made into a standard kit (perhaps less the Basic Stamp) for a reasonable price.

- Mark

----- Original Message -----
From: "kc0mic" <kc0mic@...>
Date: Tuesday, November 15, 2005 9:07 am
Subject: [GPSL] Balloon Sat 'kits'

> CAPNSPACE and Near Space Ventures are planning on hosting a couple of
> "Near Space" workshops next year. Does anyone know if there are
> 'kits' for a balloon sat that would have a modified or modifieable
> digital camera, timer, HOBO, etc.
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> If not does anyone have a recommendation for a reasonably priced
> digital camera that could become a 'standard' if we have to source
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> own kits. That would go for timers, sensors, data recorders, etc
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> Thanks
>
> 73 de Troy, KC0MIC
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1817. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 19:51:19 UTC
From: PAUL VERHAGE
Topic: 1813 Message: 1817

We could talk to Parallax about a BalloonSat kit that uses the BS-2IC. I picture a kit witha controller like Mark indicated and a set of experiments that could be assembled by the buyer.

Paul

>>> n9xtn@... 11/15/2005 12:41 PM >>>
There are a couple of digital cameras at Wal-Mart that are reasonably priced and may be worth investigating for modification purposes. One is about $40 and is a 2Mpixel camera with no LCD display (obviously not a big deal for balloons). The other is $60 and 3 Mpixels with a display. I imagine they will be as easy to modify as the Concord 4060AF that several of us are using. However, I don't know of anyone who has modified one yet.

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- Mark

----- Original Message -----
From: "kc0mic" <kc0mic@...>
Date: Tuesday, November 15, 2005 9:07 am
Subject: [GPSL] Balloon Sat 'kits'

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1818. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 20:31:18 UTC
From: Ralph Wallio, W0RPK
Topic: 1809 Message: 1818

I wandered through Hutchinson visitor information at www.visithutch.com for all of this.

The National Trappers Association Convention will be held in Hutchinson August 4-6, 2006. Several accommodations are already 100% booked including Econo Lodge, Comfort Inn, Best Western and Scotsman Inn.

Both Grand Prairie and Holiday Inn Express still have rooms available (but maybe not for long). The Holiday Inn Express room rate is competitive with Grand Prairie.

Conference facilities are available at the Grand Prairie, Holiday Inn Express, ESSDACK (an education services organization), the Hutchinson Community College Student Center and others. See http://www.visithutch.com/facilities.htm

I suggest negotiations with both the Grand Prairie and Holiday Inn Express. The Holiday Inn Express does not have food facilities so coffee, rolls, lunch, et al., could be catered for less cost.

Perhaps ESSDACK and the community college could be approached for appropriate space. The college has food service which might present a rough edge but it all worked out ok in Omaha.

One way or another we will need to make decisions and get rooms reserved ASAP because it appears the trapper gathering is a big deal.

Thanks Zack,

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1819. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 21:56:52 UTC
From: Troy Campbell
Topic: 1813 Message: 1819

That would be a good start.

Maybe would we could eventually come up with is a base set of cababilites
(camera, a couple of sensors with a data recorder)
and then have "upgrades" (controllers, geiger counters, light sensors,
pressure sensors, etc)
Maybe have a 'science package' an 'amateur radio package' an imaging package, etc.

They would all conform (more or less) to the 1.2 pound 4-5 inch spaceframe model.

My biggest concern right now is to get a more or less consistent supply of cameras that can be modified somewhat easily. The target audience will be new to soldering.

73 de Troy, KC0MIC

PAUL VERHAGE <paul.verhage@...> wrote: We could talk to Parallax about a BalloonSat kit that uses the BS-2IC. I picture a kit witha controller like Mark indicated and a set of experiments that could be assembled by the buyer.

Paul

>>> n9xtn@... 11/15/2005 12:41 PM >>>
There are a couple of digital cameras at Wal-Mart that are reasonably
priced and may be worth investigating for modification purposes. One
is about $40 and is a 2Mpixel camera with no LCD display (obviously
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display. I imagine they will be as easy to modify as the Concord
4060AF that several of us are using. However, I don't know of anyone
who has modified one yet.

In the Wal-marts around here (Omaha metro), they are hanging on the
wall next to the 1-hr photo section along with the SD/CF/xD cards.

I've also had thoughts of redesigning Paul's Basic Stamp 2 boards. I
would include provisions for a MAX186 A/D converter and some EEPROM
I2C chips on the same board. It might be nice to have a run of a
couple dozen boards - I've used expresspcb.com with good results for
their MiniBoard service and the cost would be $20/board (double-sided,
no silkscreen, plated/tinned). This could be made into a standard kit
(perhaps less the Basic Stamp) for a reasonable price.

- Mark

----- Original Message -----
From: "kc0mic" <kc0mic@...>
Date: Tuesday, November 15, 2005 9:07 am
Subject: [GPSL] Balloon Sat 'kits'

> CAPNSPACE and Near Space Ventures are planning on hosting a couple of
> "Near Space" workshops next year. Does anyone know if there are
> 'kits' for a balloon sat that would have a modified or modifieable
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> digital camera that could become a 'standard' if we have to source
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> 73 de Troy, KC0MIC
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1820. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 22:01:00 UTC
From: PAUL VERHAGE
Topic: 1813 Message: 1820

I've sent an email to Partallax about this.

I suspect we'd leave things like camera mods out of the kit. So the camera would already come modified. But easier things I think should be left to the user.

Paul

>>> kc0mic@yahoo.com 11/15/2005 2:56 PM >>>
That would be a good start.

Maybe would we could eventually come up with is a base set of cababilites
(camera, a couple of sensors with a data recorder)
and then have "upgrades" (controllers, geiger counters, light sensors,
pressure sensors, etc)
Maybe have a 'science package' an 'amateur radio package' an imaging package, etc.

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73 de Troy, KC0MIC

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no silkscreen, plated/tinned). This could be made into a standard kit
(perhaps less the Basic Stamp) for a reasonable price.

- Mark

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From: "kc0mic" <kc0mic@yahoo.com>
Date: Tuesday, November 15, 2005 9:07 am
Subject: [GPSL] Balloon Sat 'kits'

> CAPNSPACE and Near Space Ventures are planning on hosting a couple of
> "Near Space" workshops next year. Does anyone know if there are
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1821. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 22:42:03 UTC
From: Mike Manes
Topic: 1813 Message: 1821

Hi Troy,

Almost sounds like you're planning to set up a course like Chris
Koehler's "Gateway to Space" at CU under Colo Space Grant program.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
>
> I've sent an email to Partallax about this.
>
> I suspect we'd leave things like camera mods out of the kit. So the camera would already come modified. But easier things I think should be left to the user.
>
> Paul
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> >>> n9xtn@... 11/15/2005 12:41 PM >>>
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> Date: Tuesday, November 15, 2005 9:07 am
> Subject: [GPSL] Balloon Sat 'kits'
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Mike Manes manes@... Tel: 303-979-4899
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1822. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 22:45:50 UTC
From: Troy Campbell
Topic: 1813 Message: 1822

I suppose we _could_ use a BS-2 to run the camera, rather than a timer. (I'm partial to the BS2-OEM rather than the IC. It's mechanically easier to deal with, the connections could be plugged onto the connector pretty easy, it's got an on board regulator that can supply other components too, though either would work. That would take care of the timer issue and add a _lot_ of flexibility for "upgrades"

For a classroom setting with 5-6 teams of 4-5 people and a regimented schedule, the camera is actually going to be the hard part. I'm looking for "all the same" so that we can at least have written instructions. I may just have to bite the bullet and see if I can get funding for 20-30 of them and count on having a different model every year.

73 de Troy, KC0MIC

PAUL VERHAGE <paul.verhage@...> wrote: I've sent an email to Partallax about this.

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(perhaps less the Basic Stamp) for a reasonable price.

- Mark

----- Original Message -----
From: "kc0mic" <kc0mic@...>
Date: Tuesday, November 15, 2005 9:07 am
Subject: [GPSL] Balloon Sat 'kits'

> CAPNSPACE and Near Space Ventures are planning on hosting a couple of
> "Near Space" workshops next year. Does anyone know if there are
> 'kits' for a balloon sat that would have a modified or modifieable
> digital camera, timer, HOBO, etc.
>
> If not does anyone have a recommendation for a reasonably priced
> digital camera that could become a 'standard' if we have to source
our
> own kits. That would go for timers, sensors, data recorders, etc
too.
>
> Any ideas or suggestions would be greatly appreciated.
>
> Thanks
>
> 73 de Troy, KC0MIC
>
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1823. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 22:46:26 UTC
From: n9xtn@cox.net
Topic: 1809 Message: 1823

The venue sounds fine to me, and $25 per group flying is pretty reasonable. Room rates are also OK - you can get cheaper, but having broadband Internet in the room is a definite plus. The water park may be nice for those bringing families.

Will we have wireless (or wired) Internet in the conference room? That was a big plus at GPSL 2004. The only downside to using the college was having to drive a ways for lunch - having lunch in walking distance sure is handy and saves time/hassle.

Will we be required to guarantee 30 rooms from GPSL attendees and X meals at the restaurant? I imagine lunch is no problem, but some folks may plan to arrive relatively late Thursday and would miss the evening meal.

73 de Mark N9XTN

1824. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 23:13:05 UTC
From: Zack Clobes
Topic: 1809 Message: 1824

I need to iron out some details on the numbers. She did not leave me with the impression that we'd have to guarantee the rooms, but that is yet to be seen. My opinion is that we're paying enough for the rooms as is, there shouldn't be any requirements. There is Internet in the conference room, but I forget if it was wired or not.

I know that we can get cheaper rates by shopping around, however I see that we gain several things in this scenario:
- An "official" hotel for everyone to stay at.
- Entertainment for spouses and children
- No traveling for lunch Friday which means more time for the conference
- Easier access for people arriving Friday during the day - they can check in and walk down the hall to the convention.

I can certainly check into the Juco again this year, but I think the group has out-grown most of the other possibilities around Hutch.

Zack

n9xtn@... wrote:

>The venue sounds fine to me, and $25 per group flying is pretty
>reasonable. Room rates are also OK - you can get cheaper, but having
>broadband Internet in the room is a definite plus. The water park may
>be nice for those bringing families.
>
>Will we have wireless (or wired) Internet in the conference room?
>That was a big plus at GPSL 2004. The only downside to using the
>college was having to drive a ways for lunch - having lunch in walking
>distance sure is handy and saves time/hassle.
>
>Will we be required to guarantee 30 rooms from GPSL attendees and X
>meals at the restaurant? I imagine lunch is no problem, but some
>folks may plan to arrive relatively late Thursday and would miss the
>evening meal.
>
>73 de Mark N9XTN
>
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1825. GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 23:19:16 UTC
From: Zack Clobes
Topic: 1825 Message: 1825

Please return one survey per group. Approximate numbers are fine - I just want to get a feel for the group. A more official form will be available early next year.

Name of group:

Number of members attending Friday's symposium:

Number of members attending Saturday's launch:

Number of hotel rooms needed Thursday night:

Number of hotel rooms needed Friday night:

Number of hotel rooms needed Saturday night:

Do you have spouses and/or children that would attend assuming we had kid-friendly entertainment Friday:

Number of helium tanks needed (K/T sized):

How many two meter APRS transmitters do you plan to fly

Do you have any other special requirements for flight?

1826. Re: [GPSL] Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-15 23:30:56 UTC
From: Troy Campbell
Topic: 1813 Message: 1826

That's the general idea. I got appointed the state Director of Aerospace Eductation. As you might guess, I'm going to go lean heavily on the 'space' portion of those duties, hopefully in conjunction with the Missouri Space Grant Consortium. I'm just trying to get all the duckies lined up and quacking in unison before I try to publish a schedule.

TMC

Mike Manes <manes@...> wrote: Hi Troy,

Almost sounds like you're planning to set up a course like Chris
Koehler's "Gateway to Space" at CU under Colo Space Grant program.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
>
> I've sent an email to Partallax about this.
>
> I suspect we'd leave things like camera mods out of the kit. So the camera would already come modified. But easier things I think should be left to the user.
>
> Paul
>
> >>> kc0mic@... 11/15/2005 2:56 PM >>>
> That would be a good start.
>
> Maybe would we could eventually come up with is a base set of cababilites
> (camera, a couple of sensors with a data recorder)
> and then have "upgrades" (controllers, geiger counters, light sensors,
> pressure sensors, etc)
> Maybe have a 'science package' an 'amateur radio package' an imaging package, etc.
>
> They would all conform (more or less) to the 1.2 pound 4-5 inch spaceframe model.
>
> My biggest concern right now is to get a more or less consistent supply of cameras that can be modified somewhat easily. The target audience will be new to soldering.
>
> 73 de Troy, KC0MIC
>
>
>
> PAUL VERHAGE <paul.verhage@...> wrote: We could talk to Parallax about a BalloonSat kit that uses the BS-2IC. I picture a kit witha controller like Mark indicated and a set of experiments that could be assembled by the buyer.
>
> Paul

>
> >>> n9xtn@... 11/15/2005 12:41 PM >>>
> There are a couple of digital cameras at Wal-Mart that are reasonably
> priced and may be worth investigating for modification purposes. One
> is about $40 and is a 2Mpixel camera with no LCD display (obviously
> not a big deal for balloons). The other is $60 and 3 Mpixels with a
> display. I imagine they will be as easy to modify as the Concord
> 4060AF that several of us are using. However, I don't know of anyone
> who has modified one yet.
>
> In the Wal-marts around here (Omaha metro), they are hanging on the
> wall next to the 1-hr photo section along with the SD/CF/xD cards.
>
> I've also had thoughts of redesigning Paul's Basic Stamp 2 boards. I
> would include provisions for a MAX186 A/D converter and some EEPROM
> I2C chips on the same board. It might be nice to have a run of a
> couple dozen boards - I've used expresspcb.com with good results for
> their MiniBoard service and the cost would be $20/board (double-sided,
> no silkscreen, plated/tinned). This could be made into a standard kit
> (perhaps less the Basic Stamp) for a reasonable price.
>
> - Mark
>
> ----- Original Message -----
> From: "kc0mic" <kc0mic@...>
> Date: Tuesday, November 15, 2005 9:07 am
> Subject: [GPSL] Balloon Sat 'kits'
>
> > CAPNSPACE and Near Space Ventures are planning on hosting a couple of
> > "Near Space" workshops next year. Does anyone know if there are
> > 'kits' for a balloon sat that would have a modified or modifieable
> > digital camera, timer, HOBO, etc.
> >
> > If not does anyone have a recommendation for a reasonably priced
> > digital camera that could become a 'standard' if we have to source
> our
> > own kits. That would go for timers, sensors, data recorders, etc
> too.
> >
> > Any ideas or suggestions would be greatly appreciated.
> >
> > Thanks
> >
> > 73 de Troy, KC0MIC
> >
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

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1827. GPSL 2005 CD and DVD

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 03:57:58 UTC
From: Mark Conner
Topic: 1827 Message: 1827

At long last, I finally got the pictures, presentations, and video assembled. I've burned the first batch and will be labeling and mailing them as I get time over the next couple of weeks. I plan to send one set to the head honcho for each balloon group that participated, plus some others who were key players in GPSL 2005. If you're with a balloon group that flew at GPSL 2005, please ask them for a copy of the disks.

Once I get this batch labeled and mailed, I'll be taking requests from others. Thanks to all who contributed photos and video.

73 de Mark N9XTN

1828. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 05:37:13 UTC
From: Mike Manes
Topic: 1825 Message: 1828

Hi Zack,

Here's a real SWAG based on GPSL 05:

Mike

Zack Clobes wrote:
>
> Please return one survey per group. Approximate numbers are fine - I
> just want to get a feel for the group. A more official form will be
> available early next year.
>
> Name of group: EOSS
>
> Number of members attending Friday's symposium: 10
>
> Number of members attending Saturday's launch: 10
>
> Number of hotel rooms needed Thursday night: 8
>
> Number of hotel rooms needed Friday night: 8
>
> Number of hotel rooms needed Saturday night: 3 - 8
>
> Do you have spouses and/or children that would attend assuming we had
> kid-friendly entertainment Friday: 3 spouses, 1@ 9 yr old boy
>
> Number of helium tanks needed (K/T sized): one T
>
> How many two meter APRS transmitters do you plan to fly: 1 or 2 plus DF
>
> Do you have any other special requirements for flight? ATV on 426.25
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1829. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 10:12:00 UTC
From: wb8elk@aol.com
Topic: 1825 Message: 1829

Approx 4 attendees from WB8ELK balloon group in Huntsville AL....2 to 4 rooms for the duration and all attending dinners.

- Bill WB8ELK

1830. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 10:25:06 UTC
From: wb8elk@aol.com
Topic: 1825 Message: 1830

Here's a more complete rough guess for the WB8ELK contingent:

Name of group: WB8ELK

Number of members attending Friday's symposium: 4

Number of members attending Saturday's launch: 4

Number of hotel rooms needed Thursday night: 2 - 4

Number of hotel rooms needed Friday night: 2 - 4

Number of hotel rooms needed Saturday night: 2 - 4

Do you have spouses and/or children that would attend assuming we had
kid-friendly entertainment Friday: 2

Number of helium tanks needed (K/T sized): 2

How many two meter APRS transmitters do you plan to fly 2

Do you have any other special requirements for flight? 439.25 or 434.00 ATV

1831. RE: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 11:39:14 UTC
From: Roger Hammond
Topic: 1825 Message: 1831

Zack,

Here's a rough guess.....

Rog - KC?MWM

****

Name of group: CNNSP

Number of members attending Friday's symposium: 3

Number of members attending Saturday's launch: 5

Number of hotel rooms needed Thursday night: 2

Number of hotel rooms needed Friday night: 2

Number of hotel rooms needed Saturday night: 2

Do you have spouses and/or children that would attend assuming we had
kid-friendly entertainment Friday:

Number of helium tanks needed (K/T sized): 1

How many two meter APRS transmitters do you plan to fly 2

Do you have any other special requirements for flight?

Yahoo! Groups Links

1832. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 13:56:27 UTC
From: Ralph Wallio, W0RPK
Topic: 1825 Message: 1832

Zack,

Name of group: W0RPK

Number of members attending Friday's symposium: 1

Number of members attending Saturday's launch: 1

Number of hotel rooms needed Thursday night: 1

Number of hotel rooms needed Friday night: 1

Number of hotel rooms needed Saturday night: 0

Do you have spouses and/or children that would attend assuming we had
kid-friendly entertainment Friday: 0

Number of helium tanks needed (K/T sized): 0

How many two meter APRS transmitters do you plan to fly: 0

Do you have any other special requirements for flight? 0

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1833. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 14:26:25 UTC
From: PAUL VERHAGE
Topic: 1825 Message: 1833

Name of group: Paul Verhage

Number of members attending Friday's symposium: 1

Number of members attending Saturday's launch: 1

Number of hotel rooms needed Thursday night: 0

Number of hotel rooms needed Friday night: 0

Number of hotel rooms needed Saturday night: 0

Do you have spouses and/or children that would attend assuming we had kid-friendly entertainment Friday: 0

Number of helium tanks needed (K/T sized): 1

How many two meter APRS transmitters do you plan to fly 2

Do you have any other special requirements for flight? none

1834. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 19:39:25 UTC
From: Ryan Butler
Topic: 1825 Message: 1834

On Tue, 2005-11-15 at 17:19 -0600, Zack Clobes wrote:

This is a rough guess as our group is very loosely defined at this point.

> Please return one survey per group. Approximate numbers are fine - I
> just want to get a feel for the group. A more official form will be
> available early next year.
>
>
> Name of group:
Central Iowa Balloon Enthusiasts
>
> Number of members attending Friday's symposium:

4
>
> Number of members attending Saturday's launch:

8
>
> Number of hotel rooms needed Thursday night:

4
>
> Number of hotel rooms needed Friday night:

6
>
> Number of hotel rooms needed Saturday night:
>
0 (unless weather, then probably 6)

> Do you have spouses and/or children that would attend assuming we had
> kid-friendly entertainment Friday:
>
>

Don't think so.

>
> Number of helium tanks needed (K/T sized):
>
1
> How many two meter APRS transmitters do you plan to fly
>
2

> Do you have any other special requirements for flight?
>
none

1835. Re: [GPSL] GPSL 2006 Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-16 20:20:24 UTC
From: n9xtn@cox.net
Topic: 1825 Message: 1835
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1836. Re: Balloon Sat 'kits'

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-17 01:28:49 UTC
From: Dave
Topic: 1813 Message: 1836

--- In GPSL@yahoogroups.com, Troy Campbell <kc0mic@y...> wrote:
>
> That would be a good start.
>
> Maybe would we could eventually come up with is a base set of
cababilites
> (camera, a couple of sensors with a data recorder)
> and then have "upgrades" (controllers, geiger counters, light sensors,
> pressure sensors, etc)
> Maybe have a 'science package' an 'amateur radio package' an
imaging package, etc.

You might want to glance over into the Balloonatics group. A
couple of us have been kicking around various sensor ideas a bit.

Radiation counting would be interesting, although you might be
better off going with a scintillation counter rather than a
Geiger-Mueller (GM) tube, since GM tubes are rather insensitive
to gamma radiation, which is what most cosmic rays are. They're
good for counting beta particles, and they do respond somewhat
to other radiation (alpha, gamma). Another problem is that the
Halogen based GM tubes may not function well at extremely low
temperatures due to the Halogen gas (Chlorine, Bromine) condensing.
At least test it before flying it.

Light sensing would be interesting, especially if you could add
some narrow band spectral filters to determine how the spectral
composition of the light changes. That might be especially
interesting if you could also do infrared and doubly so for
ultraviolet.

Sensing the atmospheric temperature would be interesting, as well
as the pressure. Something else that might be interesting would
be to see if you can determine atmospheric composition by
measuring the speed of propagation of sound or something along
those lines (Does the relative amount of Oxygen, Nitrogen,
Carbon Dioxide, etc. affect the speed of sound in air?).

Another idea would be to perform a particle capture experiment
to see how much dust/debris/etc. are floating along at altitude.
Could you use a fan with a piece of filter paper?

Some of the other ideas we've kicked around have been using a
strobe light on the payload as a QRSS data transmitter (as well
as making it easier to optically track the balloon/payload).

We've also mentioned the possibility of using a foil type of parachute to achieve steering during the descent phase of the flight.

There has also been a bit of discussion about cut-down circuits.

And, some discussion touched on exploiting the colour of the payload package to determine solar heating rates (More thermometers/thermisters/etc.?).

Then, you could always mount a magnetometer (Hall effect sensor? PPM?) to determine any shifts in the Earth's magnetic field with altitude. If you have the power and weight budget, you might even try magnetic steering/stabilization (although that's a pretty long shot).

Vibration sensing might also return some interesting data, especially across a several different flight configurations to determine stabilization techniques.

I'm sure the list of sensors are as long as our imaginations are.

> They would all conform (more or less) to the 1.2 pound 4-5 inch spaceframe model.

The biggest problem will be carrying everything you'd like within that weight budget. Maybe the best solution would be to make the science package as flexible as possible.

> My biggest concern right now is to get a more or less consistent supply of cameras that can be modified somewhat easily. The target audience will be new to soldering.

Cameras are nice. :-)

> 73 de Troy, KC0MIC

Dave
WA4QAL

1837. Balloon Sensors and Kits

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-17 02:04:36 UTC
From: Jeff Dailey
Topic: 1837 Message: 1837

Check out Stratostar

/www.stratostarsys.com

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http://farechase.yahoo.com

1838. Re: [GPSL] Opinions on GPSL 2006 - I need some feedback

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-17 13:31:32 UTC
From: Don KA0JLF
Topic: 1809 Message: 1838

Zack, I'm not sure I understand what you are asking.
Are you saying $25 per group to attend the Symposium
or to launch?

Here is a reply, to your question, sent to me:

********** Text to Post Follows **********

Don, there seems to be a discussion of the E-group
about charging a "landing
fee" for each team to offset the cost of renting a
high price room in a fancy
motel in Hutchinson. I would like to get my opinion
posted to the group.

It seems to me that the symposium held on Friday and
balloon launch on
Saturday are separate events and each should stand on
their own merits. If extra money is needed for the
room to hold the symposium then those attending the
symposium should "Pony Up" something $5 a head to pay
for the room.

Why should the entire launch team pay for something
they may not be able to
attend ?
Later - Nick
K?NMS
WPWG368

******** End of Text **********

73
Don

--- Zack Clobes <zclobes@...> wrote:

> As was decided over the past couple of months, GPSL
> 2006 will be held in
> Hutchinson, KS on the weekend of 4-6 August. We
> plan on following the
> traditional schedule of symposium on Friday (4 Aug),
> flight on Saturday
> morning, and a rain-date of Sunday morning.
>
> Hutchinson has a brand new (more or less, it's a
> long story) convention

> center in town that is part of a nice hotel, and
> includes an indoor
> water park. (http://www.grandprairiehotel.com/)
>
> I have contacted Grand Prairie regarding use of a
> conference room. It
> basically boils down $125 for the Symposium on
> Friday, assuming we eat a
> meal or two at the restaurant. The obvious choices
> for that meal would
> be the Thursday evening "gathering" and the Friday
> lunch.
>
> "Group" room rates are $79 + tax per room night.
> This includes access
> to the water park as well as high-speed Internet.
> We would be expected
> to reserve approximately 30 rooms for Friday night.
>
> Food prices a little on the high end - think
> Applebees + 20%, although
> the serving size is probably 20% larger also. And
> very good food I
> might add.
>
> They've agreed to provide water, and allow us to
> supply our own candy
> dishes during the Symposium. There is the
> restaurant that is 100' down
> the hall, and also a pop and ?candy? machine on
> premises.
>
>
> THE QUESTION IS, DOES THE GROUP WANT TO COMMIT TO
> SPENDING MONEY FOR
> THIS EVENT? I will keep prices as low as possible,
> but I'm toying with
> the thought of charging each flying group a ?$25?
> "landing fee" to
> attend the event.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
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1839. Re: [EOSS_Private] RE: [DMSC] Interesting Weather Balloon project..

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-24 18:13:39 UTC
From: Mike Manes
Topic: 1839 Message: 1839

Hi Guys,

There's a CAP group that has done some ballooning out here in the midwest going by the name CAPNSPACE (as I recall). They can prolly tell you how they integrated ballooning in with CAP ELT chasing.

Pretty sure they're up on one of the more popular email reflectors, which I've cc'ed to this email.

And all comers are more than welcome to come out to any EOSS flight to learn more about the operations both from a launch and tracking & recovery standpoint. Let us know if you have a payload you wanna fly - we usually have a lb or so of spare payload budget on most of our flights.

73 de Mike W5VSI
Prez EOSS

Rick von Glahn wrote:
>
> Gunner,
>
> Greetings from Edge of Space Sciences. We would be glad to have you and the
> CAP guys come out to a launch.
>
> EOSS usually flies at least two payloads. One of them is a pure RF radio
> direction finding beacon. It transmits continuous morse code announcing its
> identity and that is about all. It transmits (usually again) on 147.555 MHz.
> The second payload is an APRS package which sends out the payload's current
> latitude, longitude and altitude. For more on APRS see:
>
> http://www.eoss.org/aprs/index.html
>
> So, for CAP you could chase down the RF target in a manner similar to going
> after ELT transmitters, or you could go slightly higher tech and monitor the
> APRS data and just track the flight's progress.
>
> Be advised that the directionality of antennas is pretty much bound to them
> being properly designed to be resonant on the frequency of the target. For
> instance, many ham radio RDF types have tried to use their two meter beams to
> track down an ELT on 121.5 MHz. About all you can reliably tell with that far
> a mismatch is that the target is somewhere to one side of you and probably
> NOT on the other side. When you track at the antenna's resonant frequency you
> get a pretty sharp indication of just were the signal is emanating from +- the
> beam width of that particular design.
>

> Getting started. Well, let's see... I would go to:
>
> http://www.eoss.org/flight/index.html
>
> That page has our upcoming flight information. In this case we plan to fly in
> February. If you look at the bottom of the page you will see the expected
> flight schedule for next year. It will be pretty busy starting in April. On
> that web page you can also find the payloads and the frequencies we plan to
> use. Occasionally we change the payloads and frequencies around. But there is
> almost always a beacon transmitting somewhere in the 144 to 148 MHz range.
>
> Next you should visit:
>
> http://www.eoss.org/rdf/index.html
>
> That link takes you to the Tracking and Recovery section of our website. EOSS
> has flown 100 flights and recovered them all. But our most immediate concern
> for each flight is the safety of the hunting teams. So, read that page and the
> indicated links as a "getting started" process.
>
> Once you've read all that if you have any questions give me a shout. I'm the
> webmaster at EOSS and my email address is posted at the bottom of every page.
> If I can answer I will, but we, naturally, have a large group of folks who can
> discuss any aspect of this activity. Just remember, this is an avocation for
> everyone and they may need to actually pay attention to their families or job
> and put off questions about EOSS.
>
> 73 -- Rick, N?KKZ
>
> > -----Original Message-----
> > From: gunner@... [mailto:gunner@...]
> > Sent: Sunday, October 30, 2005 12:21 PM
> > To: Matt Clauson
> > Subject: Re: [DMSC] Interesting Weather Balloon project..
> >
> > Can you get me a contact with EOSS? I want to get my CAP
> > unit involved in one of the launches and tracking.
> > gunner
> >
> > Quoting Matt Clauson <mec@...>:
> >
> > > -----BEGIN PGP SIGNED MESSAGE-----
> > > Hash: SHA1
> > >
> > > Wayne Green wrote:
> > > > -------- Forwarded Message --------
> > > >>From friend in atlanta...
> > > >
> > > > Amateur launches balloon and gets lots of pictures.
> > > >

> > > > http://vpizza.org/~jmeehan/balloon/
> > >
> > > This is a routine occurence in the Northern Colorado area,
> > and there
> > > is a group dedicated to it, based in Denver -- Edge of
> > Space Sciences.
> > > I've gone out as a tracker on several of their launches.
> > >
> > > www.eoss.org
> > >
> > > - --mec
> > >
> > >
> >
> > --
> > No virus found in this outgoing message.
> > Checked by AVG Free Edition.
> > Version: 7.1.362 / Virus Database: 267.13.7/181 - Release Date: 11/24/2005
> >
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1840. Re: [GPSL] Re: [EOSS_Private] RE: [DMSC] Interesting Weather Balloon project..

Yahoo group: GPSL (2002 — 2008)
Date: 2005-11-27 22:02:57 UTC
From: Troy Campbell
Topic: 1839 Message: 1840

Gunner,

We've been doing ARHAB launches with CAP practice beacons (121.775 mhz) for about a year. We got an FAA tech that was going to discard an ELT to donate it instead, installed a new crystal and had it tuned and alligned. We only use 6volts on it so it doesn't put out the same wattage as even the practice beacons that squadrons' use.

It's a great way to get cadets involved in the Near Space program and is a Very good backup for recovery ops. We primarily use APRS but have a 2 meter voice beacon and the practice ELT . In the future, maybe we'll get the Wing to coordinate a SAREX with us and they can use an aircraft for recovery.

Let me know if you want more information on using them. Surprisingly (to me anyway) you can get a good elevation with an ELPR and we have had one 'find' using only the ELT.

www.capnspace.org

73 de Troy, KC0MIC
Director, Near Space Ventures, Inc.

Troy M. Campbell, Maj, USAF Aux-CAP
Director, CAP Near Space Program
DAE, Missouri Wing
SPO, North Central Region

Mike Manes <manes@...> wrote: Hi Guys,

There's a CAP group that has done some ballooning out here in the
midwest going by the name CAPNSPACE (as I recall). They can prolly
tell you how they integrated ballooning in with CAP ELT chasing.

Pretty sure they're up on one of the more popular email reflectors,
which I've cc'ed to this email.

And all comers are more than welcome to come out to any EOSS flight
to learn more about the operations both from a launch and tracking &
recovery standpoint. Let us know if you have a payload you wanna fly -
we usually have a lb or so of spare payload budget on most of our
flights.

73 de Mike W5VSI
Prez EOSS

Rick von Glahn wrote:
>
> Gunner,

>
> Greetings from Edge of Space Sciences. We would be glad to have you and the
> CAP guys come out to a launch.
>
> EOSS usually flies at least two payloads. One of them is a pure RF radio
> direction finding beacon. It transmits continuous morse code announcing its
> identity and that is about all. It transmits (usually again) on 147.555 MHz.
> The second payload is an APRS package which sends out the payload's current
> latitude, longitude and altitude. For more on APRS see:
>
> http://www.eoss.org/aprs/index.html
>
> So, for CAP you could chase down the RF target in a manner similar to going
> after ELT transmitters, or you could go slightly higher tech and monitor the
> APRS data and just track the flight's progress.
>
> Be advised that the directionality of antennas is pretty much bound to them
> being properly designed to be resonant on the frequency of the target. For
> instance, many ham radio RDF types have tried to use their two meter beams to
> track down an ELT on 121.5 MHz. About all you can reliably tell with that far
> a mismatch is that the target is somewhere to one side of you and probably
> NOT on the other side. When you track at the antenna's resonant frequency you
> get a pretty sharp indication of just were the signal is emanating from +- the
> beam width of that particular design.
>
> Getting started. Well, let's see... I would go to:
>
> http://www.eoss.org/flight/index.html
>
> That page has our upcoming flight information. In this case we plan to fly in
> February. If you look at the bottom of the page you will see the expected
> flight schedule for next year. It will be pretty busy starting in April. On
> that web page you can also find the payloads and the frequencies we plan to
> use. Occasionally we change the payloads and frequencies around. But there is
> almost always a beacon transmitting somewhere in the 144 to 148 MHz range.
>
> Next you should visit:
>
> http://www.eoss.org/rdf/index.html
>
> That link takes you to the Tracking and Recovery section of our website. EOSS
> has flown 100 flights and recovered them all. But our most immediate concern
> for each flight is the safety of the hunting teams. So, read that page and the
> indicated links as a "getting started" process.
>
> Once you've read all that if you have any questions give me a shout. I'm the
> webmaster at EOSS and my email address is posted at the bottom of every page.
> If I can answer I will, but we, naturally, have a large group of folks who can
> discuss any aspect of this activity. Just remember, this is an avocation for
> everyone and they may need to actually pay attention to their families or job

> and put off questions about EOSS.
>
> 73 -- Rick, N?KKZ
>
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> > From: gunner@... [mailto:gunner@...]
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> > Can you get me a contact with EOSS? I want to get my CAP
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> > gunner
> >
> > Quoting Matt Clauson <mec@...>:
> >
> > > -----BEGIN PGP SIGNED MESSAGE-----
> > > Hash: SHA1
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> > > Wayne Green wrote:
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> > > >
> > > > http://vpizza.org/~jmeehan/balloon/
> > >
> > > This is a routine occurence in the Northern Colorado area,
> > and there
> > > is a group dedicated to it, based in Denver -- Edge of
> > Space Sciences.
> > > I've gone out as a tracker on several of their launches.
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> > > www.eoss.org
> > >
> > > - --mec
> >
> >
>
> --
> No virus found in this outgoing message.
> Checked by AVG Free Edition.
> Version: 7.1.362 / Virus Database: 267.13.7/181 - Release Date: 11/24/2005
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

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1841. AFCEA article on balloon-borne comm

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 04:38:10 UTC
From: Mark Conner
Topic: 1841 Message: 1841

http://www.afcea.org/signal/articles/anmviewer.asp?a=1042
<http://www.afcea.org/signal/articles/anmviewer.asp?a=1042&z=39> &z=39

Looks a lot like what we've been doing..

Thanks to Wayne KE6DZD of NSTAR for this link.

73 de Mark N9XTN

1842. Long-duration balloons - GHOST program info

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 15:23:19 UTC
From: wb8elk@aol.com
Topic: 1842 Message: 1842
Attachments: 1 described; binary payloads are missing from this source WARC

On a round the world excursion...something I ve been planning on doing for some time and may attempt next year....you d have to have a lat/lon fence routine

1843. Another fascinating lnk about long duration balloon programs in the 60s

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 15:40:38 UTC
From: wb8elk@aol.com
Topic: 1843 Message: 1843

This link has some valuable info about long duration flights as well as the visibility of a balloon at altitude....this was written by Vin Lally whose papers inspired me to do my first balloon experiment in 1987.

http://ncas.sawco.com/condon/text/s6chap08.htm
(http://ncas.sawco.com/condon/text/s6chap08.htm)

- Bill WB8ELK

1844. RE: [GPSL] Another fascinating lnk about long duration balloon pr ograms in the 60s

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 16:08:04 UTC
From: Rochte, Robert
Topic: 1844 Message: 1844

I also have a copy of Lally's paper about RACOON balloons (long-ish duration zero pressure) around here somewhere... I'll post it to the web when I have time. (I thought I had come up with a great new idea in long duration ballooning last year - until I read this paper!)

73,
Robert
KC8UCH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of wb8elk@...
Sent: Thursday, December 01, 2005 10:41 AM
To: GPSL@yahoogroups.com
Cc: balloonatics@yahoogroups.com; GilMoore12@...
Subject: [GPSL] Another fascinating lnk about long duration balloon programs in the 60s

This link has some valuable info about long duration flights as well as the visibility of a balloon at altitude....this was written by Vin Lally whose papers inspired me to do my first balloon experiment in 1987.

http://ncas.sawco.com/condon/text/s6chap08.htm
<http://ncas.sawco.com/condon/text/s6chap08.htm>

- Bill WB8ELK

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<http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=J-__6L1W_lZQ58dekNdHLA> and crafts
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<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ> radio

_____

YAHOO! GROUPS LINKS

* Visit your group " GPSL <http://groups.yahoo.com/group/GPSL> " on the web.

* To unsubscribe from this group, send an email to: GPSL-unsubscribe@yahoogroups.com <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service <http://docs.yahoo.com/info/terms/> .

1845. Re: [GPSL] AFCEA article on balloon-borne comm

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 16:55:41 UTC
From: PAUL VERHAGE
Topic: 1841 Message: 1845

How did they figure that 65,000 feet represents near space? I've been looing for a standard for a while.

Paul

>>> n9xtn@... 11/30/2005 9:38 PM >>>
http://www.afcea.org/signal/articles/anmviewer.asp?a=1042
<http://www.afcea.org/signal/articles/anmviewer.asp?a=1042&z=39> &z=39

Looks a lot like what we've been doing..

Thanks to Wayne KE6DZD of NSTAR for this link.

73 de Mark N9XTN

1846. [Fwd: [Ballooning] 20 meter beacon for long duration balloons]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 17:29:00 UTC
From: Mike Manes
Topic: 1846 Message: 1846

Forwarded FYI.
73 de Mike W5VSI

-------- Original Message --------
Subject: [Ballooning] 20 meter beacon for long duration balloons
Date: Wed, 30 Nov 2005 21:34:39 -0000
From: "Steve Usary" <W3RFA@...>
To: Ballooning@yahoogroups.com

I've been working on a 20 meter BPSK beacon to act as a light weight payload for longer duration balloons. The total payload weight is 12 oz. including beacon, GPS, HF antenna, solar cells and short term energy storage for burst transmissions.

This will only transmit during daylight hours but a Battery can be added for night time use.

Total output power is 1 watt PEP. It transmits a BPSK31 string that is the same format as an APRS message except for the check sum format. The initial frequency will be 14.069 MHz, just below the PSK band.

It is capable of using the GPS output to correct the transmit frequency to within +- 10 Hz. Initially I plan to transmit a 25 second beacon every 5 minutes. This will allow 10 different beacons to use the same frequency since each one will be assigned a 30 second nonoverlaping timeslot.

No batteries are needed for daytime use and the expected life is unlimited (except for UV degradation of the solar cells).

The initial prototype should be ready in a month or two. It consistes of three PCBs mounted togather.

After I check out the prototype I will order the 3.5" X 3.5" PCB that will incorporate all parts on one PCB. This is a 4 layer PCB and has manufacturing setup costs of $140 and then about $20 per board, so it makes sense to get as many as possible.

I'll be setting up a web site in the future to post my progress.

Anyone interested in participating or making suggestions please drop me a line here or at w3rfa@....

Steve, W3RFA

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

1847. Re: [GPSL] AFCEA article on balloon-borne comm

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-01 21:16:37 UTC
From: John C Nordlie
Topic: 1841 Message: 1847

IIRC that's the top of controlled airspace, so maybe that's their
measure. I'd always heard NS was around 100K+.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
http://blizzard.rwic.und.edu/~nordlie/
==========

On Thu, 1 Dec 2005, PAUL VERHAGE wrote:

> How did they figure that 65,000 feet represents near space? I've been looing for a
standard for a while.
>
> Paul
>
> >>> n9xtn@... 11/30/2005 9:38 PM >>>
> http://www.afcea.org/signal/articles/anmviewer.asp?a=1042
> <http://www.afcea.org/signal/articles/anmviewer.asp?a=1042&z=39> &z=39
>
>
>
> Looks a lot like what we've been doing..
>
>
>
> Thanks to Wayne KE6DZD of NSTAR for this link.
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> 73 de Mark N9XTN
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> Yahoo! Groups Links
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1848. definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 01:41:56 UTC
From: K. Mark Caviezel
Topic: 1848 Message: 1848

>
> How did they figure that 65,000 feet represents near
> space? I've been looking for a standard for a
while.
>
> Paul

FWIW When I was at the X Prize Cup in Las Cruces, an
official of the state of New Mexico informed me that
'space' is now legally defined as anything over 60k
feet. In that state. Don'cha love the arbitrary
laws of mankind?

- KMC ng0x Denver (wondering if ANSR or EOSS will be
the first amateur group to put a latex balloon into
'space'.)

1849. Re: [GPSL] AFCEA article on balloon-borne comm

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 00:46:48 UTC
From: Mike Manes
Topic: 1841 Message: 1849

Well, in the US anyway, the FAA's jurisdiction tops out at FL600
(60K' pressure altitude). If "99%" means anything, then 100K', with
its ambient baro pressure of 10 mbar (1% of std MSL), then I guess
I'd have to say that the environment at 100K is 99% - >real< near -
of outer space. About the only orbital ambient condition that we
can't duplicate to 99% accuracy is microgravity, but we would if we
could get into a 17,000 kt jet stream :=}.

73 de Mike W5VSI

John C Nordlie wrote:
>
> IIRC that's the top of controlled airspace, so maybe that's their
> measure. I'd always heard NS was around 100K+.
>
> ===
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> 701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
> http://blizzard.rwic.und.edu/~nordlie/
> ===
>
> On Thu, 1 Dec 2005, PAUL VERHAGE wrote:
>
> > How did they figure that 65,000 feet represents near space? I've been looing for a
standard for a while.
> >
> > Paul
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1850. Re: [GPSL] definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 14:20:00 UTC
From: PAUL VERHAGE
Topic: 1848 Message: 1850

Ummm......

I do know that for the FAI, space begins at 100 km. I wonder how many other standards we can find.

Paul

>>> kmcaviezel@... 12/1/2005 6:41 PM >>>
>
> How did they figure that 65,000 feet represents near
> space? I've been looking for a standard for a
while.
>
> Paul

FWIW When I was at the X Prize Cup in Las Cruces, an official of the state of New Mexico informed me that 'space' is now legally defined as anything over 60k feet. In that state. Don'cha love the arbitrary laws of mankind?

- KMC ng0x Denver (wondering if ANSR or EOSS will be the first amateur group to put a latex balloon into 'space'.)

Yahoo! Groups Links

1851. Flight Underway

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 15:49:10 UTC
From: Holmes, Will
Topic: 1851 Message: 1851

We are a little in our announcement, but here it is anyway. We currently have a flight underway that can be tracked with the call sign kb9qls.

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

1852. Re: [GPSL] definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 16:36:55 UTC
From: John C Nordlie
Topic: 1848 Message: 1852

Quite a few: http://www.slate.com/id/2107381/

80 km, 100 km, 600 km, take your pick. Even the FAI Secretary
General called the 100 km choice "fairly arbitrary." The UN Office
for Outer Space Affairs doesn't name a number, "There is no agreement on
the limit of outer space."

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
http://blizzard.rwic.und.edu/~nordlie/
==========

On Fri, 2 Dec 2005, PAUL VERHAGE wrote:

> Ummm......
>
> I do know that for the FAI, space begins at 100 km. I wonder how many other standards we
can find.
>
> Paul
>
> >>> kmcaviezel@... 12/1/2005 6:41 PM >>>
> >
> > How did they figure that 65,000 feet represents near
> > space? I've been looking for a standard for a
> while.
> >
> > Paul
>
> FWIW When I was at the X Prize Cup in Las Cruces, an
> official of the state of New Mexico informed me that
> 'space' is now legally defined as anything over 60k
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> Yahoo! Groups Links

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1853. Re: [GPSL] Flight Underway

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 23:31:35 UTC
From: Ralph Wallio, W0RPK
Topic: 1851 Message: 1853

Will,

I note your GPS locked up at 91kft ascending. I hope you have recovered your payload AOK.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Holmes, Will" <wlholmes@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, December 02, 2005 9:49 AM
Subject: [GPSL] Flight Underway

We are a little in our announcement, but here it is anyway. We currently have a flight underway that can be tracked with the call sign kb9qls.

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

1854. Re: [GPSL] Flight Underway

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-02 23:45:18 UTC
From: Jeff Dailey
Topic: 1851 Message: 1854

We recovered it ok the 900Mhz system did not have the
same problem.

Burst 92,500 Ft.

Jeff Dailey

--- "Ralph Wallio, W0RPK" <W0RPK@...> wrote:

> Will,
>
> I note your GPS locked up at 91kft ascending. I
> hope you have recovered
> your payload AOK.
>
> TNX es 73 de Ralph Wallio, W0RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
> ----- Original Message -----
> From: "Holmes, Will" <wlholmes@...>
> To: <GPSL@yahoogroups.com>
> Sent: Friday, December 02, 2005 9:49 AM
> Subject: [GPSL] Flight Underway
>
>
> We are a little in our announcement, but here it is
> anyway. We
> currently have a flight underway that can be tracked
> with the call sign
> kb9qls.
>
> Will Holmes
>
> Assistant Professor of Engineering Physics
>
> Taylor University
>
> mailto: wlholmes@...
>
> voice: (765) 998-4672
>
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Start your day with Yahoo! - Make it your home page!
http://www.yahoo.com/r/hs

1855. [Fwd: [KNSP] Re: Light weight 20 meter beacon for long duration ballooning]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-04 13:42:54 UTC
From: Mike Manes
Topic: 1855 Message: 1855

Re Steve's 20m PSK31 beacon.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [KNSP] Re: Light weight 20 meter beacon for long duration
ballooning
Date: Sun, 04 Dec 2005 04:02:34 -0000
From: "Steve Usary" <W3RFA@...>
To: KNSP@yahoogroups.com

I've started a web site with more info at:

http://members.myactv.net/~w3rfa/

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP

Yahoo! Groups Links

1856. Re: [EOSS] FW: [aprssig] Kp4rf-10 ballon flight recovery story

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-05 03:29:51 UTC
From: Mike Manes
Topic: 1856 Message: 1856

Imagine how kewl it woulda been to have had a marine T&R team on site
near the forecast landing site during the descent phase! Would they
use a fish net in lieu of a bushel basket?

The PR team deserves a lot of credit for having mastered the bouyant
payload technology. Kudos!

And this was not the first maritime recovery for that team. Oscar KP4RF
showed some pix of a recovery just offshore from San Juan during his
visit at the Workshop flight this summer. But this one was well over
the horizon.

73 de Mike W5VSI, EOSS

Larry Cerney wrote:
>
> Sharing from the APRSSIG
>
> 73...
>
> Larry
> K0ANI
>
> "The intuitive mind is a sacred gift and the rational mind is a faithful
> servant. We have created a society that honors the servant and has forgotten
> the gift."
> --Albert Einstein
> > -----Original Message-----
> > From: aprssig-bounces@... [mailto:aprssig-
> > bounces@...] On Behalf Of Hector Cintron
> > Sent: Sunday, December 04, 2005 12:07 PM
> > To: 'TAPR APRS Mailing List'
> > Subject: [aprssig] Kp4rf-10 ballon flight recovery story
> >
> > Hi Everyone
> >
> > I just wanted to fill everyone in on a great APRS story, probably a
> > first for APRS. A little background, My name is Hector - N1TKK and I'm
> > a member of the Puerto Rico Space Grant Consortium. Our group consist
> > of teacher, students and Ham Radio Operators to launch and recover
> > balloons for 2 schools Marcelino Canino Canino Middle School in Dorado
> > and the University of Puerto Rico (UPR) in Rio Piedras. The hardest
> > part for us is recovery because we live in an island that is roughly
> > 100x35 miles.
> >
> > Yesterday the group had their 4th launch we were going to try to reach

> > burst (90k+ feet) altitude flight but winds predictions were starting to
> > shift the night before. Our choices were to cut the payload at around
> > 30k feet, this would land around Canovanas City, this was a great/easy
> > recovery area. 40k feet was going to land in "El Yunque". El Yunque is
> > a Rain forest, lots of trees, some as 100' high, water fall, you get the
> > idea :). The rest would land it in water between the east coast of
> > Puerto Rico and the island of Vieques. We opted the safe altitude of
> > 30k'.
> >
> > At cut-off altitude unfortunately we encounter an interference (a link
> > that we didn't hear before) so we weren't able to cut it so we had to
> > let it fly. As predictions said it landed on water between the islands.
> > The flight reached around 95,000 feet altitude. Once we arrived at the
> > coast we spend the afternoon trying to get a fix on the location. We
> > were able to hear a signal between S1-S3 but we weren't able to decode
> > any packets to get the GPS info. Doing some DF we knew the direction
> > were the payload was. We stop hearing the beacon around 2pm. We keep
> > going to different parts of the coast to see if we could hear it but no
> > luck. At around 6pm a local vendor in one of the peer told us he saw 3
> > Police boats going to an area were he was something land with a
> > parachute. He told us were their office was, so we started to head that
> > way hoping to hear a signal thinking they had it.
> >
> > When we arrived, we heard nothing and the confirmed it they didn't run
> > or received any reports of the payloads. The officer on duty was
> > familiar with balloon payload because they have come across NWS and
> > Coastguard dropsone, they have either found or recovered. The officer
> > on duty wanted to help but he was alone (It looked like he had a boring
> > day and he needed some action). He called a fellow officer that had
> > just left to see if he could returned. He had every thing setup then
> > another higher officer came in and wasn't sure that we should go out.
> > After the officer convinced him that we had GPS position, had radios
> > that would give us locations once were close. He reluctantly agree.
> >
> > Now the good part, it wasn't until around 6:30pm (night time) that 2
> > officer, Oscar Rest KP4RF, Omi WP4DM and myself. We started to head to
> > the last GPS fix under one condition. Because the weather conditions
> > were still a little ruff (we have been under surf advisories until 11am
> > that morning) they were going to try to get there but if conditions got
> > worse we would have to abort. The ride was a bit choppy, 15 mins into
> > the ride I was beginning to get worry I wasn't hearing anything, not a
> > peep. But then out of nowhere a packet burst, it's alive, It's alive.
> > We were screaming did you decode it to each other. But again no packet
> > data a couple of minutes later finally a decoded packet, but as Omi
> > started to read the coordinates off, wait that can't be right we are too
> > far off. Then the next packet came in as he read the coordinates off,
> > yes that's much better. But once we finally got there under the rain we
> > saw:
> >
> > http://www.aprspr.net/balloon/kp4rf/flight4/IMG_6865b.jpg

> >
> > YES we finally found it around 7:15pm after 8hrs of search. So as you
> > can see APRS did it's job a couple of miles out to sea (you can make out
> > some light from the coast in the picture), we impressed a couple of
> > Police Officers from the Marine Division, everyone was happy specially
> > the students, now we await to get the photos/telemetry from the
> > payloads.
> >
> >
> > 73
> > Hector.
> >
> >
> > _____
> > aprssig mailing list
> > aprssig@...
> > https://lists.tapr.org/cgi-bin/mailman/listinfo/aprssig
>
>
>
> Yahoo! Groups Links
>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1857. [Fwd: Re: Balloon Flight]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-05 03:52:48 UTC
From: Mike Manes
Topic: 1857 Message: 1857

Check out Oscar's web site in his first paragraph. Neat maps and
geosat photos!

73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: Re: Balloon Flight
Date: Sun, 4 Dec 2005 23:05:06 -0400
From: "Oscar Resto" <kp4rf@...>
To: "K. Mark Caviezel" <kmcaviezel@...>,"Richard Hackney"
<richard.hackney@...>,<dru@...>,"Jennifer Fowler"
<jennifer.fowler@...>,"Chris Koehler"
<Koehler@...>,"Juan Agrinsoni"
<juan_agrinsoni@...>,<w5vsi@...>
References: <web-117303616@...>
<web-126999829@...>
<20051204202038.di7jcextrrusowcg@...>
<web-127204293@...>

Hi,

Bellow is a short summary sent to TAPR by Hector N1TKK witch is my
tracker
director of our recent flight of December 3, also is he page updated
http://www.aprspr.net/balloon/kp4rf/. As soon we process the pictures
they
will be on the site. We are working on it.

73,

Oscar KP4RF

==
Hi Everyone

I just wanted to fill everyone in on a great APRS story, probably a
first for APRS. A little background, My name is Hector - N1TKK and I'm
a member of the Puerto Rico Space Grant Consortium. Our group consist
of teacher, students and Ham Radio Operators to launch and recover
balloons for 2 schools Marcelino Canino Canino Middle School in Dorado
and the University of Puerto Rico (UPR) in Rio Piedras. The hardest
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100x35 miles.

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burst (90k+ feet) altitude flight but winds predictions were starting to
shift the night before. Our choices were to cut the payload at around

30k feet, this would land around Canovanas City, this was a great/easy recovery area. 40k feet was going to land in "El Yunque". El Yunque is a Rain forest, lots of trees, some as 100' high, water fall, you get the idea :). The rest would land it in water between the east coast of Puerto Rico and the island of Vieques. We opted the safe altitude of 30k'.

At cut-off altitude unfortunately we encounter an interference (a link that we didn't hear before) so we weren't able to cut it so we had to let it fly. As predictions said it landed on water between the islands. The flight reached around 95,000 feet altitude. Once we arrived at the coast we spend the afternoon trying to get a fix on the location. We were able to hear a signal between S1-S3 but we weren't able to decode any packets to get the GPS info. Doing some DF we knew the direction were the payload was. We stop hearing the beacon around 2pm. We keep going to different parts of the coast to see if we could hear it but no luck. At around 6pm a local vendor in one of the peer told us he saw 3 Police boats going to an area were he was something land with a parachute. He told us were their office was, so we started to head that way hoping to hear a signal thinking they had it.

When we arrived, we heard nothing and the confirmed it they didn't run or received any reports of the payloads. The officer on duty was familiar with balloon payload because they have come across NWS and Coastguard dropsone, they have either found or recovered. The officer on duty wanted to help but he was alone (It looked like he had a boring day and he needed some action). He called a fellow officer that had just left to see if he could returned. He had every thing setup then another higher officer came in and wasn't sure that we should go out. After the officer convinced him that we had GPS position, had radios that would give us locations once were close. He reluctantly agree.

Now the good part, it wasn't until around 6:30pm (night time) that 2 officer, Oscar Rest KP4RF, Omi WP4DM and myself. We started to head to the last GPS fix under one condition. Because the weather conditions were still a little ruff (we have been under surf advisories until 11am that morning) they were going to try to get there but if conditions got worse we would have to abort. The ride was a bit choppy, 15 mins into the ride I was beginning to get worry I wasn't hearing anything, not a peep. But then out of nowhere a packet burst, it's alive, It's alive. We were screaming did you decode it to each other. But again no packet data a couple of minutes later finally a decoded packet, but as Omi started to read the coordinates off, wait that can't be right we are too far off. Then the next packet came in as he read the coordinates off, yes that's much better. But once we finally got there under the rain we saw:

http://www.aprspr.net/balloon/kp4rf/flight4/IMG_6865b.jpg

YES we finally found it around 7:15pm after 8hrs of search. So as you can see APRS did it's job a couple of miles out to sea (you can make out

some light from the coast in the picture), we impressed a couple of Police Officers from the Marine Division, everyone was happy specially the students, now we await to get the photos/telemetry from the payloads.

73
Hector.

1858. Summary data of 100 balloon flights

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-05 11:50:39 UTC
From: Rick von Glahn
Topic: 1858 Message: 1858

Edge of Space Sciences, Inc. has been flying for 15 years and we just launched and recovered our 100th flight last month.

As webmaster of EOSS, I've become a sort of de facto keeper of the data. Periodically I have posted a summary of flights to our website. With the completion of our 100th flight I decided it was time to expand our summary page with a few additional graphs and data.

http://www.eoss.org/ansrecap/overview/flight_history_1_to_100.htm

Included on this page is a description of the spread sheet of data available for all flights which includes 34 fields of information. In the early days we didn't keep quite as comprehensive a record of each flight as we now do, but it was surprising just how much information could be mined from various sources. The spread sheet is available in two formats, Excel 2003 and a plain text CSV file. The Excel file contains all the graphs seen on the website.

I'd like to thank Mike Manes, W5VSI, Merle McCaslin K0YUK and Marty Griffin WA0GEH for their submission of LOTS of information on early flights I seemed to have lost. Mike even had telemetry files from EOSS-030 and 31 which have both been added to their respective recap pages as well as incorporated into the summary data. I'd also like to thank Nick Hanks N0LP for his help and great ideas on what data should be added to this spread sheet to make it more comprehensive.

73 -- Rick, NØKKZ

1859. > 1. definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-06 00:55:11 UTC
From: K. Mark Caviezel
Topic: 1859 Message: 1859

> From: "PAUL VERHAGE"
> <paul.verhage@...>
> Subject: Re: definition of space
>
> Ummm......
>
> I do know that for the FAI, space begins at 100 km.
> I wonder how many other standards we can find.

US Airforce used 50 nautical miles for astronaut wings criteria, a la X-15. I've also heard the armstrong line ~45k feet defined as 'space'. Rationale for that was that you'd need a pressure suit above that altitude, an O2 mask just doesn't cut it. I think I broke 45k on a long haul 747 once..... but it really didn't make me feel like I've been to space.

The more I think about it, the more I like the New Mexico 60,000 foot definition. It's the law. All of the other definitions I've seen are less formal.

Personally, altitudes lower than what a satellite can orbit at are lower than space to me. So about 100 nautical miles altitude.

- KMC

1860. Re: [GPSL] > 1. definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-06 14:19:43 UTC
From: PAUL VERHAGE
Topic: 1859 Message: 1860

I can support the Armstrong line as being the boundary for space. The air pressure is low enough there that your blood will boil if you're unprotected. But, I believe it occurs at an altitude of 63,000 feet. In the past, I've used the 75,000 foot altitude.

I'll dig up my write up on my justification for the boundary of near space.

Paul

>>> kmcaviezel@... 12/5/2005 5:55 PM >>>
> From: "PAUL VERHAGE"
> <paul.verhage@...>
> Subject: Re: definition of space
>
> Ummm......
>
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> I wonder how many other standards we can find.
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Personally, altitudes lower than what a satellite can
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nautical miles altitude.

- KMC

Yahoo! Groups Links

1861. Nuts and Volts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-06 14:20:24 UTC
From: PAUL VERHAGE
Topic: 593 Message: 1861

If you get a chance, look at the comic at the beginning of Nuts and Volts. It's about us.

Paul

1862. Re: [GPSL] Nuts and Volts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-07 01:07:08 UTC
From: Don KA0JLF
Topic: 593 Message: 1862

I saw...

--- PAUL VERHAGE <paul.verhage@...>
wrote:

> If you get a chance, look at the comic at the
> beginning of Nuts and Volts. It's about us.
>
> Paul

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

1863. RE: [GPSL] Nuts and Volts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-07 01:13:58 UTC
From: Roger Hammond
Topic: 593 Message: 1863

Didn't Zack have a similar situation this year at GPSL 2005?

;-)

Rog - KCOMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
PAUL VERHAGE
Sent: Tuesday, December 06, 2005 8:20 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Nuts and Volts

If you get a chance, look at the comic at the beginning of Nuts and Volts.
It's about us.

Paul

Yahoo! Groups Links

1864. Re: [GPSL] Nuts and Volts

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-07 02:20:29 UTC
From: Zack Clobes
Topic: 593 Message: 1864

Yeah, that's it... an airplane hit my balloon.. :-)

Roger Hammond wrote:

>Didn't Zack have a similar situation this year at GPSL 2005?
>
>;-)
>
>Rog - KCOMWM
>
>
>
>
>-----Original Message-----
>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
>PAUL VERHAGE
>Sent: Tuesday, December 06, 2005 8:20 AM
>To: GPSL@yahoogroups.com
>Subject: [GPSL] Nuts and Volts
>
>
>If you get a chance, look at the comic at the beginning of Nuts and Volts.
>It's about us.
>
>Paul
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>Yahoo! Groups Links
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>Yahoo! Groups Links
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1865. Re: [GPSL] > 1. definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-07 05:03:29 UTC
From: Troy Campbell
Topic: 1859 Message: 1865

I'm not sure where I read it but I seem to remember
"75,000 to 325,000 ft"

That's what I've been using for classes and public speaking.

Troy

PAUL VERHAGE <paul.verhage@...> wrote: I can support the Armstrong line as being the boundary for space. The air pressure is low enough there that your blood will boil if you're unprotected. But, I believe it occurs at an altitude of 63,000 feet. In the past, I've used the 75,000 foot altitude.

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> Ummm......
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criteria, a la X-15. I've also heard the armstrong
line ~45k feet defined as 'space'. Rationale for
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altitude, an O2 mask just doesn't cut it. I think I
broke 45k on a long haul 747 once..... but it really
didn't make me feel like I've been to space.

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the other definitions I've seen are less formal.

Personally, altitudes lower than what a satellite can
orbit at are lower than space to me. So about 100
nautical miles altitude.

- KMC

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1866. Re: [GPSL] definition of space

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-07 15:41:15 UTC
From: Harry M
Topic: 1848 Message: 1866

I've found two government definitions.

Look on page 9...
http://www.au.af.mil/au/awc/awcgate/cadre/ari_2005-01.pdf

and here for another definition...
http://www.airpower.maxwell.af.mil/airchronicles/apj/apj05/win05/tomme.html

73 Harry

> Subject: [GPSL] definition of space

1867. Univ of TN Knoxville 20 meter balloon still transmitting

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-11 03:14:03 UTC
From: wb8elk@aol.com
Topic: 1867 Message: 1867

UTARC sent up on Saturday a small 20m 1-watt CW transmitter to test out their HF circuit before their big flight next weekend....I estimate it landed just east of Wytheville, VA.....they've received numerous signal reports from across the country and they think it'll still be transmitting for most of the day on Sunday..many reports have come in well after it landed so it more than likely is in a tree with the dipole stretched out nicely...if you hear it (kinda drifty and chirpy CW on 14.328 MHz)....send a report to the list here and also fill out the reception form on the UTARC website: http://www.utarc.org.

The CW message is AA4UT/b...followed by battery voltage and QSL info.

73s de Bill WB8ELK

1868. Re: [Balloon_Sked] Univ of TN Knoxville 20 meter balloon still transmitting

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-11 18:02:41 UTC
From: Harry M
Topic: 1868 Message: 1868

Hi Bill,

It is 1740z 121105 and I am hearing CW on 14.328
in Tulsa, but very weak and un-copyable. I only
managed to copy an A and a B. I'm using a TS-130S,
MFJ Signal Enhancer II and a Cushcraft R5 @ 20ft.

The following report is from Jim K5LAD in Owasso, Ok.
The time of his report was 1400z.

Harry --
After I got your note last night I listened but the 20 meter
band was dead.
This morning when I got ready to check into my QCWA net
on 80, I turned the rig on and the receiver was sitting on the
20m freq. I heard the beacon sending AA4UT/B in a slow
and shakey tone. That was at 8AM. Signal not too much
above the noise but it's there.
Jim

----
73 Harry

1869. 10m QQRP CW Beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-14 16:07:17 UTC
From: Harry M
Topic: 1869 Message: 1869

I have a QQRP CW beacon on 28.635 +/-.
It will run for a couple days.
QSL reports are appreciated.

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

1870. WB8ELK Balloon now floating at 61,700 feet

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-17 23:32:34 UTC
From: wb8elk@aol.com
Topic: 1870 Message: 1870

The Sun went down and the balloon stopped ascending and has now leveled off at 61,700 feet and appears to be happy there for the time being....it will probably track across Virginia...go over Richmond and out to sea....it's currently northeast of Knoxville, TN...over 200 miles downrange.

My latest landing site prediction: The Bermuda Triangle.

It's -46 deg. C inside the payload and it still is working.....also the 50 milliwatt beacon on 146.565 is still operating (update - it just died out at 5:18 pm CST but the APRS packet is still working)...it is using a 9-volt lithium with only 3 layers of bubble wrap for insulation...it's amazing that it still is operating.

- Bill WB8ELK

1871. Re: [GPSL] WB8ELK Balloon now floating at 61,700 feet

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 00:02:28 UTC
From: Zack Clobes
Topic: 1870 Message: 1871

60k has always been a magical number for "floaters", I assume because of
the whole concept of controlled vs. uncontrolled airspace.

Being exempt and all, is there any real significance to this number?
Would there be a real problem with a floater that was at 50k?

Zack Clobes, W0ZC
Project: Traveler

wb8elk@... wrote:

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> leveled off at 61,700 feet and appears to be happy there for the time
> being....it will probably track across Virginia...go over Richmond and
> out to sea....it's currently northeast of Knoxville, TN...over 200
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>
> - Bill WB8ELK
>
>
>
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> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2
=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=Sz5ebNg-ZsVyHTzaR4PnAg>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=_8V4kQCK4PEN_MzUUBx-hQ>
> Hobbies and crafts
> <http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Hobby+and+craft+supply&w2=Cra
ft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=J-__6L1W_lZQ58dekNdHLA>
>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ>
>
>
>

> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
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> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
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> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

1872. East Coast stations please listen in the morning (Sun) for WB8ELK balloon beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 03:30:44 UTC
From: wb8elk@aol.com
Topic: 1872 Message: 1872

My estimated flight path from the last packet signal at 5:48 pm CST (near Kingsport, TN) indicates that the payload may fly out to sea east of Richmond, VA and at sunrise may be about 200 miles offshore.....at sunrise, it will be within 200 miles of the following locations: Philadelphia, NYC, Boston, Wash DC and may also be heard from Richmond or Virginia Beach, VA.

There is a chance that the balloon beacon on 146.565 MHz FM (WB8ELK - audio CW - on for 18 seconds and off for 12 seconds) may come back to life after the sun warms it up....also, the packet may start to work again as well - WB8ELK-11 on 144.39.

The balloon will stay up several hours after sunrise until it hits peak altitude so anyone that can monitor Sunday morning (or even afternoon), please email me if you hear anything from it.

wb8elk@... (mailto:wb8elk@...)

73s de Bill WB8ELK

1873. Re: [Balloonatics] East Coast stations please listen in the morning (Sun) for WB8ELK balloon beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 15:18:14 UTC
From: David Hoffman
Topic: 1872 Message: 1873

I see it on findu this morning about 1300 miles down range at 110,000' high.? It's 231.5 miles southeast of SHELBURNE, NS and still moving.? Looks like it woke up around 1320 hours zulu.? Internal temperature came up to -5 degrees C when it first transmitted.? It was at 100,000' then.
Position of WB8ELK-11 --- 231.5 miles southeast of SHELBURNE, NS --- Report received 11 seconds ago
Status: HiBall-6 Balloon Course: 73.0 Speed: 145.0 MPH Altitude: 110972 feet
David Hoffman - KE4FGW

>
>
>
>
> My estimated flight path from the last packet signal at 5:48 pm CST (near
> Kingsport, TN) indicates that the payload may fly out to sea east of
> Richmond,
> VA and at sunrise may be about 200 miles offshore.....at sunrise, it will
> be
> within 200 miles of the following locations: Philadelphia, NYC, Boston,
> Wash
> DC and may also be heard from Richmond or Virginia Beach, VA.
>
> There is a chance that the balloon beacon on 146.565 MHz FM (WB8ELK -
> audio
> CW - on for 18 seconds and off for 12 seconds) may come back to life
> after
> the sun warms it up....also, the packet may start to work again as well -
> WB8ELK-11 on 144.39.
>
> The balloon will stay up several hours after sunrise until it hits peak
> altitude so anyone that can monitor Sunday morning (or even afternoon),
> please
> email me if you hear anything from it.
>
> _wb8elk@..._ (mailto:wb8elk@...)
>
> 73s de Bill WB8ELK
>
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>
> [Non-text portions of this message have been removed]
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>
> YAHOO! GROUPS LINKS
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>
> Visit your group "Balloonatics" on the web.
> To unsubscribe from this group, send an email to:
> Balloonatics-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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1874. WB8ELK balloon still alive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 16:03:13 UTC
From: wb8elk@aol.com
Topic: 1874 Message: 1874

The WB8ELK-11 balloon is still transmitting as of 9:55 am CST Sunday morning...it came back alive this morning after sunrise and is 250 miles southeast of Halifax, Nova Scotia....it appears to be parachuting down at the moment.

http://map.findu.com/wb8elk-11 (http://map.findu.com/wb8elk-11)

73s de Bill WB8ELK

1875. Re: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 17:09:46 UTC
From: K. Mark Caviezel
Topic: 1874 Message: 1875

VERY cool flight Bill!

192 mph is pretty darn cool!

There is a balloon group in the Southwestern US that
may put up a couple of small plastic floaters before
the end of the year, designed to float at about 35k
feet. It will be interesting to see how that mission
works out. Might land in your backyard.
But I like what you're doing with latex. Definately
cool to see how your winter flights work out. Thanks
for sharing them!

- Mark Caviezel, NG0X Denver (an advocate of a
mission a 1/2lb dissolvable alka-seltzer ballast
weight on long string..... Descent to ocean surface
results in a relaunch.... in theory... would be fun
to try)

--- wb8elk@... wrote:

> The WB8ELK-11 balloon is still transmitting as of
> 9:55 am CST Sunday
> morning...it came back alive this morning after
> sunrise and is 250 miles southeast
> of Halifax, Nova Scotia....it appears to be
> parachuting down at the moment.
>
> _http://map.findu.com/wb8elk-11_
> (http://map.findu.com/wb8elk-11)
>
> 73s de Bill WB8ELK
>

1876. Re: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 17:17:10 UTC
From: David Hoffman
Topic: 1874 Message: 1876

I wouldn't pick 35K for a floater.

David Hoffman - KE4FGW

>
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>
> VERY cool flight Bill!
>
> 192 mph is pretty darn cool!
>
> There is a balloon group in the Southwestern US that
> may put up a couple of small plastic floaters before
> the end of the year, designed to float at about 35k
> feet. It will be interesting to see how that mission
> works out. Might land in your backyard.
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> weight on long string..... Descent to ocean surface
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> < of Halifax, Nova Scotia....it appears to be
> < parachuting down at the moment.
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> < _http://map.findu.com/wb8elk-11_
> < (http://map.findu.com/wb8elk-11)
> <

> < 73s de Bill WB8ELK
> <
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> YAHOO! GROUPS LINKS
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> Visit your group "Balloon_Sked" on the web.
> To unsubscribe from this group, send an email to:
> Balloon_Sked-unsubscribe@yahoogroups.com
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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1877. 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still al ive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 17:57:05 UTC
From: Rochte, Robert
Topic: 1877 Message: 1877

>I wouldn't pick 35K for a floater.

Really? And the hundreds of floaters used in various Lagrangian studies over the years floated at what altitude? Are you going to say, "above 60,000 feet"? No, I didn't think so...

Payloads that fall under the FAR 101 exemption are exempt for a reason - that is, because they are relatively harmless to commercial aviation. They are not exempt only above controlled airspace - they are exempt, period. And yes, they still must not "create a hazard" (101.7), but it's pure imagination that defines a 35k foot floater as a "hazard" and yet considers a flight with dual six pound payloads ascending from ground to 110k feet as safe.

Simply put, there is no legal or ethical reason to not fly a tropospheric floater. The only ones that tend to object are those obsessed with "playing NASA" and making AHAB out to be more than just a hobby or (at best) educational activity.

[FLAMESUIT=ON]
73,
Robert
KC8UCH

1878. Re: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 18:12:32 UTC
From: Harry M
Topic: 1874 Message: 1878

Nova Scotia Recent Marine Data
http://www.ndbc.noaa.gov/Maps/NovaScotia.shtml

hhm

1879. Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 18:45:52 UTC
From: PAUL VERHAGE
Topic: 1879 Message: 1879

Is there any interest in outting together ab article for the Wikipedia?
This would be a chance for us to create definitions for ARHAB.

Paul (At an undisclosed location for the Christmas holidays)

1880. Re: [GPSL] 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still al ive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 18:53:51 UTC
From: PAUL VERHAGE
Topic: 1877 Message: 1880

Not meant as a flame, but I guess the concern is that it we keep our balloons above the average flying altitude of aircraft, we stand less of a chance of someone seeing them or making comments on them. Anything that reduces the chances of the FAA even thinking of us is to our best interest.

Paul

>>> rrochte@... >>>
>I wouldn't pick 35K for a floater.

Really? And the hundreds of floaters used in various Lagrangian studies over the years floated at what altitude? Are you going to say, "above 60,000 feet"? No, I didn't think so...

Payloads that fall under the FAR 101 exemption are exempt for a reason - that is, because they are relatively harmless to commercial aviation. They
are not exempt only above controlled airspace - they are exempt, period. And yes, they still must not "create a hazard" (101.7), but it's pure imagination that defines a 35k foot floater as a "hazard" and yet considers
a flight with dual six pound payloads ascending from ground to 110k feet as
safe.

Simply put, there is no legal or ethical reason to not fly a tropospheric
floater. The only ones that tend to object are those obsessed with "playing
NASA" and making AHAB out to be more than just a hobby or (at best) educational activity.

[FLAMESUIT=ON]
73,
Robert
KC8UCH

Yahoo! Groups Links

1881. 60k has always been a magical number for "floaters",

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 19:13:00 UTC
From: K. Mark Caviezel
Topic: 1881 Message: 1881

> 60k has always been a magical number for "floaters",
> I assume because of
> the whole concept of controlled vs. uncontrolled
> airspace.
>
> Being exempt and all, is there any real significance
> to this number?
> Would there be a real problem with a floater that
> was at 50k?

>>>> Zack: I think the ~62k initial float altitude of Bill's balloon was a case of "that's just the way it worked out". It is very interesting how he gets the performance from latex balloons which are so dramatically different from the vast majority of other latex users.
Looking at the aprsworld data, looks like 42k feet would have been the 'optimal' altitude for Bill's flight yesterday, it was hauling at over 185 mph between 41k and 42k feet. That is, optimal to go somewhere. For an FAA part 101 exempt flight, there is no obligation to report the balloon position as the FAA presumably does not care about the affect of exempt flights on other airspace users. Literally hundreds of RAOB balloons are launched every day by NOAA often from sites near to busy airports with no attempt to re-route air traffic away from the sondes. In decades of doing this, the first ever airstrike just occurred about a year ago. With no damage to the jetliner AFAIK.
And in fact much heavier missions are easily accomodated by the FAA with proper co-ordination. Example: the 152 pound "ES-OS SEVEN" mission floated at 39k feet before it was commanded to terminate its float. There are a portion of ARHABers that will comment on the inadvisability/danger of someone else's exempt mission while making no attempt to cease their own exempt and non-exempt activities. Seems ironic.

Gonna slip into some asbestos long underwear about now.

- KMC ng0x Denver

1882. Re: 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 19:23:53 UTC
From: David Hoffman
Topic: 1877 Message: 1882

No flaming needed here. I was just thinking of the "what ifs" and thought that a floater may not be well suited for 35K. Who am I to say one way or another. Have at it.

David Hoffman - KE4FGW

>>I wouldn't pick 35K for a floater.
>
> Really? And the hundreds of floaters used in various Lagrangian studies
> over the years floated at what altitude? Are you going to say, "above
> 60,000 feet"? No, I didn't think so...
>
> Payloads that fall under the FAR 101 exemption are exempt for a reason -
> that is, because they are relatively harmless to commercial aviation.
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> a flight with dual six pound payloads ascending from ground to 110k feet
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> safe.
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> Simply put, there is no legal or ethical reason to not fly a tropospheric
> floater. The only ones that tend to object are those obsessed with
> "playing
> NASA" and making AHAB out to be more than just a hobby or (at best)
> educational activity.
>
> [FLAMESUIT=ON]
> 73,
> Robert
> KC8UCH
>
>

1883. Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 19:53:00 UTC
From: John C Nordlie
Topic: 1883 Message: 1883

My appologies if this has been covered before (I couldn't find anything in the archives), but one of the things our group at UND has been trying to find out is the availability of some sort of radar transponder that could be flown on an amateur balloon.

All the commercial ones we've found are too heavy and/or too power-hungry and/or too expensive to put on our payloads. It seems to me that with the state of the art of electronics these days, it shouldn't be a huge task to design and build a transponder that would be compatible with the FAA's radar system (although GPS altitude would be better for us than the normal barometric altimeters used in present models).

I realize that it's economies of scale that bring down the prices of things like radios and computers, and the market for such transponders might be too small for any company to be interested (I'd think balloon groups and possibly ultra-light aircraft operators would be the only takers). If the unit had to be FAA certified it would also drive the cost up and be rather daunting to developers, but that's somewhat questionable since none of our balloon carry passengers. Probably the biggest issue is that it would transmit on a non-amateur frequency.

Progress has been made with things like findu.com to allow position info to be accessable directly by ATC centers, and those who have worked to make this possible are to be commended, but I get the feeling that we'd make the most friends, or at least remove the most objections, if we had something that integrated into their system directly.

To clarify: no one including the FAA has asked us to do this, I'm just exploring the idea.

Thanks for your time, and Happy Holidays.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
http://blizzard.rwic.und.edu/~nordlie/
==========

1884. Re: [GPSL] Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 20:15:25 UTC
From: wb8elk@aol.com
Topic: 1883 Message: 1884

Terra used to make a radar transponder that weighed about 1.5 pounds...TRT150 I believe was the model and it was designed for the glider market or small aircraft. I could be powered with lightweight batteries as well....however, they discontinued it and later models were too heavy and power hungry.

The TRT-150 was used in a couple of flights from Utah years ago with good results.

- Bill WB8ELK

1885. Re: [GPSL] 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still al ive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 21:56:52 UTC
From: Mark Garrett
Topic: 1877 Message: 1885
Attachments: 1 described; binary payloads are missing from this source WARC

I would agree with Paul, keep it above their realm and all will be
fine. Problem is that you need to provide some external heat source to
keep the equipment going. Problem is that the balloon probably dropped
down below 50 K overnight but that part of the flight did not report back
due to the internal temperatures.
Bill's package stopped working when it got down to -50C inside the
package. I thought of using one of those chemical thermal wraps but Bill
pointed it out that they use oxygen to make them work. I would think that
a little air might keep it from getting down to the point that electronics
would still operate and keep the batteries somewhat operational but since I
am not sure of the chemicals used to create the heat I would also be
concerned that any gasses released might attack the electronics or corrode
traces. Would anyone know what they use in the

Mark Garrett
ka9szx

>Not meant as a flame, but I guess the concern is that it we keep our
>balloons above the average flying altitude of aircraft, we stand less of
>a chance of someone seeing them or making comments on them. Anything
>that reduces the chances of the FAA even thinking of us is to our best
>interest.
>
>Paul
>
> >>> rrochte@... >>>
> >I wouldn't pick 35K for a floater.
>
>Really? And the hundreds of floaters used in various Lagrangian studies
>over the years floated at what altitude? Are you going to say, "above
>60,000 feet"? No, I didn't think so...
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>Payloads that fall under the FAR 101 exemption are exempt for a reason -
>that is, because they are relatively harmless to commercial aviation.
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>are not exempt only above controlled airspace - they are exempt, period.
>And yes, they still must not "create a hazard" (101.7), but it's pure
>imagination that defines a 35k foot floater as a "hazard" and yet
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>a flight with dual six pound payloads ascending from ground to 110k feet
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>safe.
>

>Simply put, there is no legal or ethical reason to not fly a
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>NASA" and making AHAB out to be more than just a hobby or (at best)
>educational activity.
>
>[FLAMESUIT=ON]
>73,
>Robert
>KC8UCH
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>Yahoo! Groups Links
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>YAHOO! GROUPS LINKS
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> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
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> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
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>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.371 / Virus Database: 267.14.1/206 - Release Date: 12/16/2005

1886. Re: [GPSL] 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still al ive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 22:13:40 UTC
From: Mark Garrett
Topic: 1877 Message: 1886
Attachments: 1 described; binary payloads are missing from this source WARC

I got cut off. The question is " would anyone know what they use in the
over the counter heat sport wraps"?
Mark Garrett, ka9szx

At 03:56 PM 12/18/2005, you wrote:

>I would agree with Paul, keep it above their realm and all will be
>fine. Problem is that you need to provide some external heat source to
>keep the equipment going. Problem is that the balloon probably dropped
>down below 50 K overnight but that part of the flight did not report back
>due to the internal temperatures.
>Bill's package stopped working when it got down to -50C inside the
>package. I thought of using one of those chemical thermal wraps but Bill
>pointed it out that they use oxygen to make them work. I would think
>that a little air might keep it from getting down to the point that
>electronics would still operate and keep the batteries somewhat
>operational but since I am not sure of the chemicals used to create the
>heat I would also be concerned that any gasses released might attack the
>electronics or corrode traces. Would anyone know what they use in the
>
>Mark Garrett
>ka9szx
>
>>Not meant as a flame, but I guess the concern is that it we keep our
>>balloons above the average flying altitude of aircraft, we stand less of
>>a chance of someone seeing them or making comments on them. Anything
>>that reduces the chances of the FAA even thinking of us is to our best
>>interest.
>>
>>Paul
>>
>> >>> rrochte@... >>>
>> >I wouldn't pick 35K for a floater.
>>
>>Really? And the hundreds of floaters used in various Lagrangian studies
>>over the years floated at what altitude? Are you going to say, "above
>>60,000 feet"? No, I didn't think so...
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>>Payloads that fall under the FAR 101 exemption are exempt for a reason -
>>that is, because they are relatively harmless to commercial aviation.
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>>are not exempt only above controlled airspace - they are exempt, period.
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>>a flight with dual six pound payloads ascending from ground to 110k feet
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>>NASA" and making AHAB out to be more than just a hobby or (at best)
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>>
>>[FLAMESUIT=ON]
>>73,
>>Robert
>>KC8UCH
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>>Yahoo! Groups Links
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>>YAHOO! GROUPS LINKS
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>> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
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ps.com
>>
>> *
>> * Your use of Yahoo! Groups is subject to the
>> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
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> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
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> * To unsubscribe from this group, send an email to:
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> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
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1887. Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 22:35:37 UTC
From: Gene Harlan
Topic: 1887 Message: 1887

Time to think about articles for the Winter 2006 issue of Amateur Television Quarterly. Deadline is January 1st, but earlier is nice.

Not to late to get a subscription to ATVQ for Christmas. I had to laugh yesterday at one of the large retailers with the ad titled "Last Minute Holiday Gifts" and one of the items was a large box of garbage bags. A subscription to ATVQ would me much better, or other items from our web site (CD of ATV Secrets, cameras, tripods.....) or use www.hampubs.com to find our fine advertisers under the ATV section. Good for gifts or just for yourself anytime.

Check out the video cameras at http://cameras.hampubs.com .

Merry Christmas!

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

1888. WB8ELK floater - altitude vs. time

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-18 22:41:57 UTC
From: Mark Conner
Topic: 1888 Message: 1888
Attachments: 2 described; binary payloads are missing from this source WARC

I graphed the FindU reports with Excel - a very definite and sudden stop to the ascent in the evening, and two distinct ascent rates in the morning prior to burst or whatever happened Saturday morning. Very peculiar.

73 de Mark N9XTN

1889. Re: [GPSL] 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still al ive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-19 00:47:56 UTC
From: Harry M
Topic: 1889 Message: 1889

HotHands ingredients are...

Iron Powder, Water, Salt, Activated Charcoal and Vermiculite.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

I got cut off. The question is " would anyone know what they use in the over the counter heat sport wraps"?
Mark Garrett, ka9szx

1890. WB8ELK HiBall-6 balloon and payload details

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-19 02:27:31 UTC
From: wb8elk@aol.com
Topic: 1890 Message: 1890

HiBall-6 Flight data:

Launch: UAH NSSTC at 2027z on Dec. 17th
Ascent rate until float: 500 ft/min on average.
Float occurred at sunset at 61,700 feet northeast of Knoxville, TN

Downrange travel to LOS at 37k feet: 1414 miles (270 mi SE of Halifax)
Flight time: 19hrs 32min
Peak Alt: 111,449 feet

Balloon: 2000 gram Scientific Sales latex weather balloon
APRS Payload weight: 1.5 pounds
Tracking Beacon weight: 4 oz
Total flight train weight including 3 foot parachute: 1 lb 15 oz
Total nozzle lift: 2lb 9 oz for a total of 10 oz free lift

APRS payload (WB8ELK-11): Opentracker APRS board, Garmin GPS-18LVC, Alinco DJ-S11T
Beacon payload: Doppler DF Systems Microhunt Foxhunt circuit...50 mW FM (audio CW).

Batteries: 6 AA lithiums to power APRS board and GPS
3 AA lithiums inside the Alinco DJ-S11T

9 volt lithium powered the Beacon

73s de Bill WB8ELK

1891. 20m QQRP CW Beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-19 17:03:10 UTC
From: Harry M
Topic: 1891 Message: 1891

The 10m Beacon is off the air.

I now have a 20m beacon on 14.055 +/-
It will be on the air for several days.
QSL reports are appreciated.

73 Harry

1892. WB8ELK 50 mW balloon beacon was heard in Maine during flight

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-19 18:17:35 UTC
From: wb8elk@aol.com
Topic: 1892 Message: 1892

I just received this report which answered my nagging question as to whether my 50 mW beacon on it's 9-volt battery had thawed out as well...I believe he's over 360 miles away from where the balloon was.

73s de Bill WB8ELK

Signal report:

Thought you might be interested in the following: Last Sunday, 12-18-05, I had my 2 meter rig on scan and it locked up on 146.565, which is the freq the local hams use simplex.I first thought some one was sitting on their key! It was an S 2 sig. Then I heard cw which was weak but Q5.It was sending "kb8elk balloon ar" I copied it from 0745 to 0930 EDT.My home qth is Hancock,Me, small town on the NE coast of Me, approximately 30 miles East of Bangor, Me.When I wascopying the sig I was at Winter Harbor, Me, small town just East of Hancock. At that location I was using a home made ground plane in the attic.Just thot you might like to know!

73, Bob, W1KMG

1893. > 5. Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-19 21:59:29 UTC
From: K. Mark Caviezel
Topic: 1893 Message: 1893

John:
I'll be following up on Bill's suggestion, but if you find anything different or better, I'd love to hear about it. I am itching to equip my hot air balloon with a transponder for those really high flights. Everything I have found so far (except the Terra 150 that Bill mentioned) is at least 3.5 lbs, current gobbling 1.2+ amps at 14V. I talked to an application engineer at Bendix/King today and he mentioned that the 35k foot limitation on the 76A was due to ambient cabin pressure so as to avoid arc'ing things out. Yeah seems odd that even new design transponders are heavy power pigs. The transmitter is 200 or 250W but only transmitting for microseconds, so average radiated power is low.

- KMC

1894. Re: [GPSL] > 5. Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-19 22:55:58 UTC
From: Zack Clobes
Topic: 1893 Message: 1894

For a 200+W output, 1.2 amps doesn't seem all that excessive. :-) I suspect a small portion of the current drain is going to what balloonist would consider useless stuff like back-lighting and display.

One thing to consider is that just because you can get a 3 pound transponder, that doesn't mean your out of the woods yet. You still need a blind encoder to convert the _pressure_ altitude (not the absolute altitude that you get from a GPS receiver) to a digital "gray-scale" signal. Secondly, a traffic controller always want the aircraft that he is communicating with to be using a unique 4-digit code (squawk code). I suppose that this could possibly be arranged prior to launch, but I think it's probably more practical to have some method by which to change that code in flight. Lastly, you'll need an antenna capable of handling 250W at 100k feet - not a trivial task in and of itself.

As for the arc'ing, that doesn't especially surprise me - all of the transponders that I've played with all use a high-voltage vacuum tube for the RF final.

Call me a pessimist, but I'd have to say that unless someone was to account for ?10lbs? of transponder on their flights, having a radar return is probably out of the scope of amateur ballooning. Building our own would probably be out of the question. It would have to be a type-accepted FCC transmitter, FAA approved encoder, piece of mechanical and electrical engineering marvel.

Zack Clobes, W0ZC
Project: Traveler

K. Mark Caviezel wrote:

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>find anything different or better, I'd love to hear
>about it. I am itching to equip my hot air balloon
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>application engineer at Bendix/King today and he
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>due to ambient cabin pressure so as to avoid arc'ing
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>transponders are heavy power pigs. The transmitter
>is 200 or 250W but only transmitting for microseconds,
>so average radiated power is low.

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1895. Re: [GPSL] > 5. Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 00:57:37 UTC
From: wb8elk@aol.com
Topic: 1893 Message: 1895

The Terra TRT150 had a thumbwheel display so no need for unnecessary display current drain....I believe that the balloon ID code was always requested to be 1200. I'm not sure, but I believe that the altitude encoder wasn't a requirement for a balloon as I recall, they just liked to know it's position. I believe Gil Moore would have more info on it since he used that one for the balloon flight in the early 90s.

- Bill WB8ELK

-----Original Message-----
From: Zack Clobes <zclobes@...>
To: GPSL@yahoogroups.com
Sent: Mon, 19 Dec 2005 16:55:58 -0600
Subject: Re: [GPSL] > 5. Radar transponder?

For a 200+W output, 1.2 amps doesn't seem all that excessive. :-) I suspect a small portion of the current drain is going to what balloonist would consider useless stuff like back-lighting and display.

One thing to consider is that just because you can get a 3 pound transponder, that doesn't mean your out of the woods yet. You still need a blind encoder to convert the _pressure_ altitude (not the absolute altitude that you get from a GPS receiver) to a digital "gray-scale" signal. Secondly, a traffic controller always want the aircraft that he is communicating with to be using a unique 4-digit code (squawk code). I suppose that this could possibly be arranged prior to launch, but I think it's probably more practical to have some method by which to change that code in flight. Lastly, you'll need an antenna capable of handling 250W at 100k feet - not a trivial task in and of itself.

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Call me a pessimist, but I'd have to say that unless someone was to account for ?10lbs? of transponder on their flights, having a radar return is probably out of the scope of amateur ballooning. Building our own would probably be out of the question. It would have to be a type-accepted FCC transmitter, FAA approved encoder, piece of mechanical and electrical engineering marvel.

Zack Clobes, W0ZC
Project: Traveler

K. Mark Caviezel wrote:

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>is 200 or 250W but only transmitting for microseconds,
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>- KMC
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Yahoo! Groups Links

1896. RE: [GPSL] > 5. Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 03:48:47 UTC
From: Steve Griffin
Topic: 1893 Message: 1896

Garmin’s transponders have solid state finals but still consume a fair amount of power. The GTX327 weighs 3.1 lb but you will need 4-5lb of battery to run it for a couple of hours

Steve

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Tuesday, 20 December 2005 8:56 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] > 5. Radar transponder?

For a 200+W output, 1.2 amps doesn't seem all that excessive. :-) I suspect a small portion of the current drain is going to what balloonist would consider useless stuff like back-lighting and display.

One thing to consider is that just because you can get a 3 pound transponder, that doesn't mean your out of the woods yet. You still need a blind encoder to convert the _pressure_ altitude (not the absolute altitude that you get from a GPS receiver) to a digital "gray-scale" signal. Secondly, a traffic controller always want the aircraft that he is communicating with to be using a unique 4-digit code (squawk code). I suppose that this could possibly be arranged prior to launch, but I think it's probably more practical to have some method by which to change that code in flight. Lastly, you'll need an antenna capable of handling 250W at 100k feet - not a trivial task in and of itself.

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Zack Clobes, W0ZC
Project: Traveler

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>that Bill mentioned) is at least 3.5 lbs, current
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5ebNg-ZsVyHTzaR4PnAg"Hobby and craft supply

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s73WsoQ"Ham radio

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No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.1/207 - Release Date: 19/12/2005

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No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.1.371 / Virus Database: 267.14.1/207 - Release Date: 19/12/2005

1897. Re: 35k foot floater? was RE: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 03:37:41 UTC
From: Mike Manes
Topic: 1877 Message: 1897

Hi Robert,

Be careful about what you are promoting. Yes, what we pop up there is
a hazard to air navigation. I've seen what 6 lb goose did to the
windscreen of a bizjet at 250 kt, and the face of the pilot behind that
windscreen. His injuries were not imaginary.

Airlines have been sued for injuries to passengers incurred
during flight thru heavy clear air turbulence; a violent avoidance
maneuver at 550 kt can be much worse, especially if the seat belt sign
is turned off.

That 6 lb rule was written in the 60's when airliners were slower
and heavier, and most likely to accomodate the NWS radiosonds of that
era. Today's craft travel twice that speed in the jet airways, so that
same goose would have four times that impact energy against a
windscreen that's probably even lighter than those of yore. And there
are a WHOLE lot more airliners aloft today than back then.

We in the research ballooning community should strive our best to be
"good neighbors" in civil airspace, lest some dumb cluck exercising
what he believes are his "rights" gets some innocent schmuck hurt and
prompts the FAA to update FAR 101. Witness the latest UAV regs ...
There are no "hobby" or "educational" exemptions from neighborliness.

Re tropospheric floaters: NOAA recently flew some, but they were at
25K', well below enroute airways, and flew from the east coast across
most of the Atlantic. Gives you a clue, eh?

Woe be unto he who molluxes it for the rest of us!

73 de Mike W5VSI
EOSS

"Rochte, Robert" wrote:
>
> >I wouldn't pick 35K for a floater.
>
> Really? And the hundreds of floaters used in various Lagrangian studies
> over the years floated at what altitude? Are you going to say, "above
> 60,000 feet"? No, I didn't think so...
>
> Payloads that fall under the FAR 101 exemption are exempt for a reason -
> that is, because they are relatively harmless to commercial aviation. They
> are not exempt only above controlled airspace - they are exempt, period.

> And yes, they still must not "create a hazard" (101.7), but it's pure
> imagination that defines a 35k foot floater as a "hazard" and yet considers
> a flight with dual six pound payloads ascending from ground to 110k feet as
> safe.
>
> Simply put, there is no legal or ethical reason to not fly a tropospheric
> floater. The only ones that tend to object are those obsessed with "playing
> NASA" and making AHAB out to be more than just a hobby or (at best)
> educational activity.
>
> [FLAMESUIT=ON]
> 73,
> Robert
> KC8UCH
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1898. Re: [GPSL] WB8ELK floater - altitude vs. time

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 05:39:40 UTC
From: Mike Manes
Topic: 1888 Message: 1898

Hi Mark,

Hmmm ... imagine the ends of the broken lines being connected by
a U-shaped curve that bottoms out on the surface. Then imagine
that some weight suspended at the bottom of the flight line gets
broken away while being dragged across the ground ... It's happened.

If there were no such "detachable" weight, then it's also possible that
the GPS was simply "lying thru its teeth" -- this has happened as well.

73 de Mike W5VSI, EOSS

> Mark Conner wrote:
>
> I graphed the FindU reports with Excel ? a very definite and sudden
> stop to the ascent in the evening, and two distinct ascent rates in
> the morning prior to burst or whatever happened Saturday morning.
> Very peculiar.
>
>
>
> 73 de Mark N9XTN
>
>
>
> [Image]
>
> Name: wb8elk 18Dec2005.gif
> wb8elk 18Dec2005.gif Type: GIF Image (image/gif)
> Encoding: base64

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1899. Re: [GPSL] Re: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifa...

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 11:01:29 UTC
From: wb8elk@aol.com
Topic: 1899 Message: 1899

Hi Mike,

I've analyzed the winds aloft quite a bit the past couple of days and it sure looks like it stayed at 61,700 feet or at least within a few thousand feet of that level all night long until the Sun hit it and it started to ascend again. If it had gone much lower than that in altitude, it would've veered off course from the track and gone much farther out to sea since the winds were higher....the gap in the track lines connect pretty well indicating a fairly stable float altitude at night.

The interesting thing is that exactly a year ago, my balloon then did nearly the same flight path and also ended up off the coast of Nova Scotia.

The bottom payload was the APRS system so it definitely didn't get knocked off the flight train.

There was good GPS lock with over 9 satellites and an excellent HDOP as well so nothing appeared goofy with the Garmin.

I just happened to hit the free lift just right to achieve equilibrium at sunset.

73s de Bill WB8ELK

1900. Re: [GPSL] Re: [Balloon_Sked] WB8ELK balloon still alive southeast of Halifax,Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 02:53:35 UTC
From: Mike Manes
Topic: 1900 Message: 1900

Neither would I - right smack in the middle of commercial jet airways. Sounds like a solid FAR 101.7 bust! Unless one made sure all affected ARTCC's were kept aprised of current location and alt.

All it would take is a single airliner making an abrupt avoidance maneuver during food service to bring on the tort suits! I'd rather see this hobby last a while longer.

73 de Mike W5VSI
Prez EOSS

David Hoffman wrote:
>
> I wouldn't pick 35K for a floater.
>
> David Hoffman - KE4FGW
>
> >
> >
> >
> >
> > VERY cool flight Bill!
> >
> > 192 mph is pretty darn cool!
> >
> > There is a balloon group in the Southwestern US that
> > may put up a couple of small plastic floaters before
> > the end of the year, designed to float at about 35k
> > feet. It will be interesting to see how that mission
> > works out. Might land in your backyard.
> > But I like what you're doing with latex. Definately
> > cool to see how your winter flights work out. Thanks
> > for sharing them!
> >
> > - Mark Caviezel, NG0X Denver (an advocate of a
> > mission a 1/2lb dissolvable alka-seltzer ballast
> > weight on long string..... Descent to ocean surface
> > results in a relaunch.... in theory... would be fun
> > to try)
> >
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> >
> > --- wb8elk@... wrote:
> >
> > < The WB8ELK-11 balloon is still transmitting as of
> > < 9:55 am CST Sunday
> > < morning...it came back alive this morning after
> > < sunrise and is 250 miles southeast
> > < of Halifax, Nova Scotia....it appears to be
> > < parachuting down at the moment.
> > <
> > < _http://map.findu.com/wb8elk-11_
> > < (http://map.findu.com/wb8elk-11)
> > <
> > < 73s de Bill WB8ELK
> > <
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> > YAHOO! GROUPS LINKS
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> > Visit your group "Balloon_Sked" on the web.
> > To unsubscribe from this group, send an email to:
> > Balloon_Sked-unsubscribe@yahoogroups.com
> > Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
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Mike Manes manes@... Tel: 303-979-4899
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Einstein

1901. Re: [GPSL] Radar transponder?

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 05:04:53 UTC
From: Mike Manes
Topic: 1883 Message: 1901

Hi John,

Our local FAA folks have expressed their desire for us to fly a transponder, But they haven't made it a requirement, perhaps because of our expressed concerns re weight, cost and EMC - especially QRM to our GPS receivers. Imagine the EMC immunity measures needed to protect against 200 PEP at 1 GHz with approx 500 Hz PRF!

They are pretty happy with the findu.com VOR reports, however. And in our last two annual blanket waivers for Colo Space Grant, they have made findu reports mandatory.

I recently surveyed modern commercial Mode C transponders, and found some that could be pressed into unmanned balloon service. E.g., the MicroAir T2000SFL weighs just 1.35 lb and draws 80 mA rx / 500 mA tx from 13.5 Vdc. It's pricey, tho, at $3K, plus annual recertification to ARINC standards. There are cheaper ones, in the $2K range, that are heavier and more power hungry. And used gear is even cheaper, but still bigger.

There is a new scheme similar to GPS-based APRS and findu that the FAA hopes to use to replace enroute radar and transponders. It's in "beta test" on the east coast, and I've been told that most more advanced nations like Europe and Australia have already fully adopted it. This implies:

1. Transponders will eventually go the way of dinosaurs.
2. It may be a trivial matter to tie findu reports into the FAA's new system.

So it may be best to sit on your transponder bucks for the time being, and take steps to get findu reports for every flight onto your local FAA control floors.

Re a "homebrew" transponder. Yes, it's no major technical challenge for a talented ham. The rub is getting an FAA / ARINC certification. That's the part that makes those silly little boxes cost so much. Note that they don't operate in ham bands, and even if they did, pulse modulation isn't an authorized mode until you get deep into the microwave ham bands.

73 de Mike W5VSI
Prez EOSS

John C Nordlie wrote:
>
> My appologies if this has been covered before (I couldn't find anything

> in the archives), but one of the things our group at UND has been trying
> to find out is the availability of some sort of radar transponder that
> could be flown on an amateur balloon.
>
> All the commercial ones we've found are too heavy and/or too power-
> hungry and/or too expensive to put on our payloads. It seems to me
> that with the state of the art of electronics these days, it shouldn't
> be a huge task to design and build a transponder that would be
> compatible with the FAA's radar system (although GPS altitude would be
> better for us than the normal barometric altimeters used in present
> models).
>
> I realize that it's economies of scale that bring down the prices of
> things like radios and computers, and the market for such transponders
> might be too small for any company to be interested (I'd think balloon
> groups and possibly ultra-light aircraft operators would be the only
> takers). If the unit had to be FAA certified it would also drive the cost
> up and be rather daunting to developers, but that's somewhat questionable
> since none of our balloon carry passengers. Probably the biggest
> issue is that it would transmit on a non-amateur frequency.
>
> Progress has been made with things like findu.com to allow position
> info to be accessable directly by ATC centers, and those who have
> worked to make this possible are to be commended, but I get the feeling
> that we'd make the most friends, or at least remove the most objections,
> if we had something that integrated into their system directly.
>
> To clarify: no one including the FAA has asked us to do this, I'm just
> exploring the idea.
>
> Thanks for your time, and Happy Holidays.
>
> ==
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> 701-777-6112 / 701-777-3888 fax | PO Box 9007, Grand Forks, ND 58202-9007
> http://blizzard.rwic.und.edu/~nordlie/
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Mike Manes manes@... Tel: 303-979-4899
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Einstein

1902. Re: [GPSL] 35k foot floater? was RE: [Balloon_Sked] WB8ELKballoon still al ive southeast of Halifax, Nova Scotia

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-20 05:31:39 UTC
From: Mike Manes
Topic: 1902 Message: 1902

Hi Mark,

I understand that some of the Colo Space Grant balloonsats have used glove warmers that carry their own oxidizers rather than relying on ambient PO2. Might be worth googling for "high altitude glove warmers".

Now, the issue becomes "how long will they last?", since this is gonna be a long-duration flight. Perhaps its better to conserve what heat's locally available, e.g., GPS receivers dissipate about 1/2 W continuously,
and the xcvr and linear voltage regulator may match that amount. If one runs the thermals, it seems reasonable to approach the problem thru additional package insulation. Now, it might be a good idea to provide means for distributing heat from the "hot spots" thruout the package, since normal convective heat transfer (hot air goes up) isn't very effective at 10 mbar. In fact, I've heard stories about some well-insulated balloon payloads actually burning up due to lack of convective cooling mechanisms that work fine on the surface.

I think Bill's approach thru adding insulation may prove to be effective.

73 de Mike W5VSI

Mark Garrett wrote:
>
> I got cut off. The question is " would anyone know what they use in
> the over the counter heat sport wraps"?
> Mark Garrett, ka9szx
>
> At 03:56 PM 12/18/2005, you wrote:
>
> > I would agree with Paul, keep it above their realm and all will be
> > fine. Problem is that you need to provide some external heat source
> > to keep the equipment going. Problem is that the balloon
> > probably dropped down below 50 K overnight but that part of the
> > flight did not report back due to the internal temperatures.
> > Bill's package stopped working when it got down to -50C inside the
> > package. I thought of using one of those chemical thermal wraps but
> > Bill pointed it out that they use oxygen to make them work. I
> > would think that a little air might keep it from getting down to the
> > point that electronics would still operate and keep the batteries
> > somewhat operational but since I am not sure of the chemicals used
> > to create the heat I would also be concerned that any gasses
> > released might attack the electronics or corrode traces. Would

> > anyone know what they use in the
> >
> > Mark Garrett
> > ka9szx
> >
> >> Not meant as a flame, but I guess the concern is that it we keep
> >> our
> >> balloons above the average flying altitude of aircraft, we stand
> >> less of
> >> a chance of someone seeing them or making comments on them.
> >> Anything
> >> that reduces the chances of the FAA even thinking of us is to our
> >> best
> >> interest.
> >>
> >> Paul
> >>
> >> >>> rrochte@... >>>
> >> >I wouldn't pick 35K for a floater.
> >>
> >> Really? And the hundreds of floaters used in various Lagrangian
> >> studies
> >> over the years floated at what altitude? Are you going to say,
> >> "above
> >> 60,000 feet"? No, I didn't think so...
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> >> safe.
> >>
> >> Simply put, there is no legal or ethical reason to not fly a
> >> tropospheric
> >> floater. The only ones that tend to object are those obsessed
> >> with
> >> "playing
> >> NASA" and making AHAB out to be more than just a hobby or (at
> >> best)
> >> educational activity.

> >>
> >> [FLAMESUIT=ON]
> >> 73,
> >> Robert
> >> KC8UCH
> >>
> >>
> >>
> >>
> >> Yahoo! Groups Links
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >>
> >> --
> >> YAHOO! GROUPS LINKS
> >>
> >> * Visit your group "GPSL" on the web.
> >> *
> >> * To unsubscribe from this group, send an email to:
> >> * GPSL-unsubscribe@yahoogroups.com
> >> *
> >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> >> Service.
> >>
> >>
> >> --
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG Anti-Virus.
> >> Version: 7.1.371 / Virus Database: 267.14.1/206 - Release Date:
> >> 12/16/2005
> >>
> >>
> >> --
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "GPSL" on the web.
> > *
> > * To unsubscribe from this group, send an email to:
> > * GPSL-unsubscribe@yahoogroups.com
> > *
> > * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service.
> >

> >
> > ---
> >
> >
> > No virus found in this incoming message.
> > Checked by AVG Anti-Virus.
> > Version: 7.1.371 / Virus Database: 267.14.1/206 - Release Date:
> > 12/16/2005
>
> SPONSORED LINKS
>
> Hobby and craft supply Craft hobby Hobbies and crafts
>
> Ham radio
>
> ---
> YAHOO! GROUPS LINKS
>
> + Visit your group "GPSL" on the web.
>
> + To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> + Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
> ---
>
> ---
>
> No virus found in this outgoing message.
> Checked by AVG Anti-Virus.
> Version: 7.1.371 / Virus Database: 267.14.1/206 - Release Date:
> 12/16/2005

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

1903. [Fwd: [Ballooning] APRS users]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-21 22:08:20 UTC
From: Mike Manes
Topic: 1903 Message: 1903

Forward from the ANSR reflector.

73 es PC greetings de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [Ballooning] APRS users
Date: Wed, 21 Dec 2005 09:44:36 -0000
From: "hxc98" <hxc98@...>
To: Ballooning@yahoogroups.com

If you use MapPoint with either APRSPoint or UI-View, you can update
MapPoint 2004 with the latest map data very inexpensively. All you need
is a copy of Streets 2006 or AutoRoute 2006. Go to
http://www.aprspoint.com/ for step by step instructions.

1904. WB8ELK Balloon delayed until Dec. 26th at 11:00 am CST

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-24 12:12:59 UTC
From: wb8elk@aol.com
Topic: 1904 Message: 1904

Although there is a very slim chance I'll fly something tomorrow, due to the high surface winds and 90 percent rain forecast, I'm going to postpone until Monday, Dec. 26th at 11:00 am CST from my farm in Falkville, AL.

Payloads:

144.39 - WB8ELK-12 (Callsign change)

Beacon(s): (one or more of the following:)

147.42 - WB8ELK audio message (FM)
146.565 - WB8ELK (audio CW)

28.322 - CW

Launchsite: Falkville, AL

73s de Bill WB8ELK

1905. WB8ELK flight today (Sat. Dec 24th) definitely a scrub

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-24 18:32:04 UTC
From: wb8elk@aol.com
Topic: 1905 Message: 1905

Lots of heavy rain about to hit, so no chance of a flight today.

Rescheduled for Monday, Dec. 26th at 11:00 am CST from Falkville, AL

http://www.arhab.org (http://www.arhab.org) for launch details as well as other flights across the world.

- Bill WB8ELK

1906. WB8ELK balloon launch status update

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-26 09:07:37 UTC
From: wb8elk@aol.com
Topic: 1906 Message: 1906

Surface winds are still high and gusting at 3:00 am....not sure if things
will die down enough to be able to inflate outside....I'll send out a status as
to whether I'll fly or not on Monday by noon....the latest I could lift off
is 2:30 pm CST....flight path will take the payload towards Atlanta.

Rain dates (all 10:00 am CST): Tuesday morning, Dec. 27th, Thurs morning
Dec. 29th or Friday morning Dec. 30th.

Payloads:

144.39 APRS - WB8ELK-12
Beacons: 147.42 FM (voice message), 146.565, 28.322 CW or 14.318 CW

73s de Bill WB8ELK

1907. WB8ELK balloon now scheduled for 9:00 am CST on Tuesday Dec 27th

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-26 18:15:39 UTC
From: wb8elk@aol.com
Topic: 1907 Message: 1907

Looks like good conditions early Tuesday morning....launch has been
recheduled for between 9 and 10 am Tuesday Dec. 27th....flight path will take it
between Calhoun and Dahlonega, GA.

I'll post another update around midnight Monday.

144.39 APRS - WB8ELK-12

Beacon: 147.42 FM (voice message)

- Bill WB8ELK

1908. WB8ELK balloon landing site prediction for Dec. 27th - noon launch

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-27 17:13:03 UTC
From: wb8elk@aol.com
Topic: 1908 Message: 1908

Very high winds with big gusts, so no go with the zero pressure plastic balloon, but will attempt it anyways with a 2000 gram balloon....launch in about 45 minutes at noon CST.

http://www.map.findu.com/wb8elk-12

Landing site prediction:

Armuchee, GA
34.2558
85.0704

73s de Bill WB8ELK

1909. WB8ELK Balloon in the air at 1828z from Falkville, Alabama

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-27 19:14:43 UTC
From: wb8elk@aol.com
Topic: 1909 Message: 1909

Wow...now that was a thrill...20 knot plus wind gusts with a 2000 gram balloon...bouncing off our heads during inflation and at launch missed the barbed wire fence by 1 inch...but it's up in the air and on it's way towards Armuchee, Georgia....going up around 800 to 900 ft/min.

Launched at 12:28 pm CST from Falkville, AL about 20 miles due south of Huntsville, AL

http://map.findu.com/wb8elk-12

APRS - 144.39 WB8ELK-12
Beacon - 147.42 FM (audio voice message every 8 seconds) - 50 milliwatts...should last 28 hours.

73s de Bill WB8ELK

1910. RE: [EOSS] WB8ELK-12 is off the ground

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-27 20:02:46 UTC
From: K. Mark Caviezel
Topic: 1910 Message: 1910

Go, Bill, Go!
Sounds like a real tricky launch!
Only 80 miles downrange so far with a still-healthy
ascent rate... I think your 1400+ mile flight of a
week ago won't have any challenge from this one, but
you might get the sonde back.

- KMC ng0x Denver

--- Art Hostmark <ahostma@...> wrote:

> Hey Marty,
>
> I saw that message on the Ballon_Sked list also. I
> missed the first few
> packets. Not quite as good as being there but
> close.
>
> Art KI4GYZ
>
> On Tue, 2005-12-27 at 12:30 -0700, Marty Griffin
> wrote:
> > Hi Art,
> > Just got a message from Bill. Said he missed a
> fence by inches. This is
> > fun.
> > - Marty
> >
> > -----Original Message-----
> > From: EOSS@yahoogroups.com
> [mailto:EOSS@yahoogroups.com] On Behalf Of Art
> > Hostmark
> > Sent: Tuesday, December 27, 2005 12:09 PM
> > To: EOSS@yahoogroups.com
> > Subject: Re: [EOSS] WB8ELK-12 is off the ground
> >
> > Looking good 34,000 and climbing.
> >
> > Art KI4GYZ
> >
> > On Tue, 2005-12-27 at 11:40 -0700, Marty Griffin
> wrote:
> > >
> > > Looks like Bill got it off! Good luck Bill!
> > >
> > >

>
http://www.findu.com/cgi-bin/track.cgi?call=WB8ELK-12
> > >
> > > - Marty, WA0GEH, EOSS
> > >
> >
>
>
>

1911. Re: WB8ELK Balloon in the air at 1828z from Falkville, Alabama

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-27 20:14:17 UTC
From: David Hoffman
Topic: 1909 Message: 1911

I've been watching it on findu. looking good. Did you find anyone to go after it yet? It's tempting to go after I get off from work.

David Hoffman - KE4FGW

> Wow...now that was a thrill...20 knot plus wind gusts with a 2000 gram
> balloon...bouncing off our heads during inflation and at launch missed the
> barbed
> wire fence by 1 inch...but it's up in the air and on it's way towards
> Armuchee,
> Georgia....going up around 800 to 900 ft/min.
>
> Launched at 12:28 pm CST from Falkville, AL about 20 miles due south of
> Huntsville, AL
>
> http://map.findu.com/wb8elk-12
>
>
> APRS - 144.39 WB8ELK-12
> Beacon - 147.42 FM (audio voice message every 8 seconds) - 50
> milliwatts...should last 28 hours.
>
> 73s de Bill WB8ELK
>

1912. ATVQ Winter 2006 issue

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-29 03:05:52 UTC
From: Gene Harlan
Topic: 1912 Message: 1912

The deadline for articles is just about here for the Winter 2006 issue of Amateur Television Quarterly. Please send any material as soon as possible. Already have some good material. Thanks to those that sent their articles early!

Renew your subscription early so you do not miss even one issue!

Happy New Year to all.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

1913. [Fwd: [Ballooning] ANSR-28 Flight Announcement]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-29 04:35:56 UTC
From: Mike Manes
Topic: 1913 Message: 1913

-------- Original Message --------
Subject: [Ballooning] ANSR-28 Flight Announcement
Date: Wed, 28 Dec 2005 00:16:35 -0000
From: "kd7lmo" <mgray@...>
To: Ballooning@yahoogroups.com

Arizona Near Space Research (ANSR) in conjunction with ES-OS
(Experimental Sub-Orbital Society) is pleased to announce the flight
of ANSR-28. This high altitude balloon flight will take place on
Thursday, December 29th at 3:00 PM MST (2200 UTC). The launch site
will be announced closer to the flight date and will be based on winds
aloft.

The balloons will be two zero pressure balloons designed to ascend and
float for an extended period of time. Ballast will be released to
maintain altitude. A cut down mechanism will release one of the
balloon as it approaches populated areas on the east coast.

The flight will be attempt to set a number records as part of the 2005
Onset ARHAB (Amateur Radio High Altitude Ballooning Record)
competition. The portion we are attempting on this flight includes:

1. Longest Great Circle Distance
2. Longest Mission Duration
3. Greatest telemetry Distance (50 MHz and above)
4. Greatest telemetry distance (HF)

The following is the payload frequency plan:

APRS once a minute
50.62 MHz packet at 57 seconds UTC time via KD7LMO-11

14070.450 KHz PSK-31
At 0, 10, 20, 30, 40, and 50 minutes starting at 00 seconds UTC time

Additional details to follow.

ES-OS Yahoo Group:
http://groups.yahoo.com/group/ES-OS_Launch/

73s de KD7LMO
Michael Gray

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

1914. [Fwd: UX-5 Balloon Launch Saturday, December 31]

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-30 14:04:28 UTC
From: David Hoffman
Topic: 1914 Message: 1914

FYI...

David Hoffman - KE4FGW

---------- Original Message ----------
Subject: UX-5 Balloon Launch Saturday, December 31
From: "Greg Williams" <k4hsm@...>
Date: Fri, December 30, 2005 5:13 am
To: chat@...

Please share this PR with any group that may be interested.
Greg

The University of Tennessee Amateur Radio Club (UTARC) is planning to launch the UX-5 balloon on Saturday, Dec. 31. Approximate time for liftoff will be at 1830 UTC, or 1:30 PM Eastern Time.

UTARC will attempt the official distance record for this launch with a CW beacon on HF relaying telemetry and location information as the balloon takes to the air.

The balloon for the launch is designed for distance and longevity, so the flight may last over 24 hours if winds and equipment are favorable.

On UTARC's previous balloon flight, UX-4 was carried aloft by a 200 gram latex weather balloon, and was in the air for an estimated 2 hours, although the transmitter continued to operate for over 36 hours. Predictions indicate it probably landed in Virginia. The transmitter was built by Carl Lyster (WA4ADG) and had a 0.8 watt output. Reception reports were received from as far away as Minnesota, Utah, and British Columbia.

Recovery of the balloon is not anticipated at this time unless the balloon bursts early into the flight. Contact information will be on the balloon in case of a physical recovery.

The telemetry feedback will be in the following format:

Frequency: 14.325 MHz ? 2kHz
Mode: CW
Sequence: AA4UT/B every 15 seconds; full telemetry every 4 minutes as follows:
HI HI AA4UT/B
ALT xxxxxM
LAT xx.xxxxxx(N|S)
LON xxx.xxxxxx(W|E)

SATS xx
TEMP (P|N)xxxC
BATT xx.x VOLTS
SEQ xxxxx
PSE QSL WWW.UTARC.ORG <http://WWW.UTARC.ORG>

Weather forecasts for the launch are not looking pleasant, but UTARC is still planning to launch even if conditions are less than favorable. Weather does not normally affect a balloon launch unless adverse conditions affect the safety of the crew.

As of now, the forecast is as follows:

Saturday: A 30 percent chance of showers, mainly before 8am. Partly cloudy, with a high around 54. West wind between 5 and 10 mph.
Saturday Night: Partly cloudy, with a low around 32.

As with the the last launch, postings on DX Clusters will be made and signal reports can be sent via the web site at http://balloon.utarc.org

This is a long-distance record attempt. Your reception reports will be most welcome and valuable.

Greg Williams, K4HSM

_____
This mailing list is for general discussion of UTARC activities.
You can manage your subscription by going to
http://www.utarc.org and following instructions.

1915. ANSR-28 launched and heard on 20m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-30 17:22:59 UTC
From: Ralph Wallio, W0RPK
Topic: 1915 Message: 1915

PSK31 telemetry on 14,070.450. Altitude 23kft.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1916. UT Knoxville AA4UT balloon in the air at 2:31 pm EST Dec 31 on 14.325 MHz CW

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-31 20:49:59 UTC
From: wb8elk@aol.com
Topic: 1916 Message: 1916

The UX-5 balloon lifted off from Knoxville, TN at 2:31 pm EST (1931z) and is ascending around 200 ft/min or so....please listen to 14.325.5 for the CW message....The callsign repeats every 15 seconds and the telemetry sequence is sent out a minute after a 8 callsign intervals...but could take as long as 10 minutes if the GPS isn't locking.

Signal reports are already coming in from OH, NY, NJ, OK, WI, CO and MA.

This is a long duration flight that should go out over the Atlantic and could fly all night like the one I did 2 weeks ago.

Please post signal reports to: _http://www.utarc.org_ (http://www.utarc.org)

- Bill WB8ELK

1917. UX-5 CW telemetry heard in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-31 20:53:52 UTC
From: Ralph Wallio, W0RPK
Topic: 1917 Message: 1917

Mike,

Heard first telemetry at ~2017z but QRM clobbered everything but altitude = 2859.9m

Tried again at ~2024z but QRM made copy impossible.

Tried again at ~2038z. Frequency was quiet. Heard QRX and started recording. Nothing heard after that until 2048z:

ALT 5185.0M
LAT 35N50.4689
LON 082W46.3186
SAT 09
TEMP P014C
BATT 12.3V
SEQ 006

Well done!

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1918. Re: [GPSL] UT Knoxville AA4UT balloon in the air at 2:31 pm EST Dec 31 on 14.325 MHz CW

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-31 20:59:32 UTC
From: Zack Clobes
Topic: 1916 Message: 1918

I'm very faintly hearing it in KS. My poor skills can't copy that far
into the noise, but there's definitely something there.

I have about S-6 noise at the moment, and the CW isn't touching the needle.

Zack Clobes, W0ZC
Project: Traveler

wb8elk@... wrote:

> The UX-5 balloon lifted off from Knoxville, TN at 2:31 pm EST
> (1931z) and is ascending around 200 ft/min or so....please listen to
> 14.325.5 for the CW message....The callsign repeats every 15 seconds
> and the telemetry sequence is sent out a minute after a 8 callsign
> intervals...but could take as long as 10 minutes if the GPS isn't locking.
>
> Signal reports are already coming in from OH, NY, NJ, OK, WI, CO and MA.
>
> This is a long duration flight that should go out over the Atlantic
> and could fly all night like the one I did 2 weeks ago.
>
> Please post signal reports to: http://www.utarc.org
>
>
> - Bill WB8ELK
>
>
>
>
>
>
> SPONSORED LINKS
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2
=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
>
>
>
> --
> YAHOO! GROUPS LINKS

>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

1919. RE: [GPSL] UT Knoxville AA4UT balloon in the air at 2:31 pm EST Dec 31 on 14.325 MHz CW

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-31 21:04:27 UTC
From: Roger Hammond
Topic: 1916 Message: 1919

S7 noise here in Nebraska, but able to hear the majority of the telemetry.
Will try and copy an entire sequence...

Good Luck!

Roger - KCOMWM
Central Nebraska Near Space Program

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
wb8elk@...
Sent: Saturday, December 31, 2005 2:50 PM
To: balloonatics@yahoogroups.com
Cc: balloon_sked@yahoogroups.com; GPSL@yahoogroups.com;
ka9szx@...; ka8lwr@...; w0rpk@...; hhm_74115@...
Subject: [GPSL] UT Knoxville AA4UT balloon in the air at 2:31 pm EST Dec
31 on 14.325 MHz CW

The UX-5 balloon lifted off from Knoxville, TN at 2:31 pm EST (1931z) and
is ascending around 200 ft/min or so....please listen to 14.325.5 for the CW
message....The callsign repeats every 15 seconds and the telemetry sequence
is sent out a minute after a 8 callsign intervals...but could take as long
as 10 minutes if the GPS isn't locking.

Signal reports are already coming in from OH, NY, NJ, OK, WI, CO and MA.

This is a long duration flight that should go out over the Atlantic and
could fly all night like the one I did 2 weeks ago.

Please post signal reports to: http://www.utarc.org

- Bill WB8ELK

SPONSORED LINKS Hobby and craft supply Craft hobby Ham radio

--
YAHOO! GROUPS LINKS

a.. Visit your group "GPSL" on the web.

b.. To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
Service.

--

1920. UX-5 balloon reports are live on a forum page on www.utarc.org

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-31 21:52:59 UTC
From: wb8elk@aol.com
Topic: 1920 Message: 1920

Live reports....about a minute after receiving the telemetry the UTARC club members are posting the telemetry on a forum at the following website location:

http://forums.utarc.org (http://forums.utarc.org)

Click on the "Balloon Report" section.

Now at 34,300 feet.

To submit a signal report...go to : _http://www.utarc.org_ (http://www.utarc.org)

- Bill WB8ELK

1921. Left out a step to get to the UX-5 live position report page

Yahoo group: GPSL (2002 — 2008)
Date: 2005-12-31 22:07:25 UTC
From: wb8elk@aol.com
Topic: 1921 Message: 1921

http://forums.utarc.org (http://forums.utarc.org)

Go to Balloon Chat

Then go to Balloon Report

- Bill WB8ELK

1922. UX-5 balloon now at 10882 meters just east of I-95 near Rahleigh NC as of 2318z

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-01 00:14:29 UTC
From: wb8elk@aol.com
Topic: 1922 Message: 1922

Hi Harry...you've got the perfect place in the country to copy both AZ and TN balloons!!!....as of 2318z, the UX-5 balloon was crossing I-95 east of Rahleigh, NC at about 35,700 feet...(10,882.6 meters). I appears to be descending at about 150 ft/min so it will take 4 more hours to come back down...by that time it will be well out to sea....they've designed the payload to float in the water and then go back up at sunrise, so keep listening for it in the morning and during the day tomorrow.

73s de Bill WB8ELK

http://www.utarc.org (http://www.utarc.org) has a form for reception reports on it.

http://forums.utarc.org (http://forums.utarc.org) go to Balloon Chat....then Balloon Report...for live updates as they come in.

1923. UX-5 balloon now probably over the Atlantic off the coast of Cape Hatteras NC

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-01 01:41:09 UTC
From: wb8elk@aol.com
Topic: 1923 Message: 1923

The GPS stopped giving good reports after 2318z....at the time it was near I-95 east of Rahleigh, NC heading east at 35,700 feet.

The last reception I had on it was via a remote receiver (_www.dxtuners.com_ (http://www.dxtuners.com)) from Tidewater, VA which is near Virginia Beach and about 80 miles from the balloon at the time....tough copy since they are using a PCR-100 with no CW or USB mode (with a discone no less)...I copied the telemetry by listening to the noise change via AM mode...reminded me of Aurora buzz mode CW.

Last copiable report was 00:44z...nothing since then....Battery was 10.4V and temp was -39C but the lat/lon hasn't changed since 2318z.

I estimate that if they hold altitude around 35,700 feet all night, they'll go out to sea and veer northeast towards Nova Scotia and Newfoundland...It is more likely that it is coming down slowly which would have it splashing down soon about 100 miles east of the NC coastline....they have designed it to be waterproof and to float with the antenna sticking up (nice seawater groundplane)....so please listen in on 14.325.5 tomorrow morning and during the day since it will probably take off again at sunrise even if it's floating on the Gulf Stream instead of the Jet Stream.

73s de Bill WB8ELK

1924. Re: UX-5 balloon now at 10882 meters just east of I-95 near Rahleigh NC as of 2318z

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-01 02:55:01 UTC
From: Harry M
Topic: 1922 Message: 1924

Hi Bill,

I had a good time trying to copy both balloons.
I've never tried to copy PSK before. It is an
interesting mode. I wish I could've copied more
of UX-5's cw. It was in and out and the short
time it was in it was very hard to copy. It will
be interesting to see if we start getting reception
tomorrow. GLuck!

73
Harry KC5TRB

Hi Harry...you've got the perfect place in the country to copy both AZ and TN
balloons!!!....

1925. Contests for 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-01 19:50:29 UTC
From: wb8elk@aol.com
Topic: 1925 Message: 1925

I propose that we keep the same contests for 2006....any other category possibilities that you can think of?

One possibility that comes to mind is a "Lindy" award plaque for the first trans-Atlantic flight....but this one doesn't need to be limited to just 2006.

- Bill WB8ELK

1926. Re: [Balloon_Sked] UX-5 balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-01 21:22:07 UTC
From: mgray@ess-us.com
Topic: 1926 Message: 1926

It was recover yeasterday (December 31st) around 5 PM local New Mexico time. Here is a note from Jack, W7JLC:

We were still getting reports back from it during the morning as soon as the band opened up again.

So it will live to fly again!

Pat, N5BBD was able to get away and has just recovered the ANSR Payload. It came down through a Mesquite tree, the balloons were shreaded. The package was upright with the antenna still vertical up into the tree. There was only a small amount of the ballast liquid left. More later.

On Sun, 1 Jan 2006, Joe wrote:

> Any News Of The Balloon This Morning Yet?
>
> Joe
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> Yahoo! Groups Links
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1927. NOAA Smart Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-02 16:24:23 UTC
From: Ralph Wallio, W0RPK
Topic: 1927 Message: 1927

http://www.noaa.inel.gov/Capabilities/smartballoon/

With funding from the U.S. Weather Research Program (USWRP), NOAA Air Resources Laboratory, Field Research Division, in collaboration with the University of Hawaii have made improvements to the smart balloon (constant volume adjustable density balloon) that will make this platform suitable for hurricane research. The 10.3-foot diameter balloon shell has been redesigned to allow the transponder and sensors to reside inside the balloon shell to help protect them from turbulence and rain that may be encountered inside a hurricane. The temperature and relative humidity sensors are no longer passively aspirated but are housed in a radiation shield and are fan aspirated to increase accuracy. A rain gage has been added to provide information on the precipitation rate as the smart balloon moves through rain bands within a hurricane. An infrared temperature sensor has also been added to provide remote sea-surface temperature data. Satellite communications replaces the point to point radio system to allow continuous monitoring of the balloon position and sensor data without requiring an aircraft to be in close proximity to the smart balloon.

The improved smart balloons will be deployed as a part of a Lagrangian experimental strategy to better characterize the evolution of the energy content of the marine boundary-layer inflow to a hurricane and its relationship with hurricane intensity changes. This effort will be accomplished in cooperation with reconnaissance missions flown by the NOAA Hurricane Research Division.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1928. Re: [GPSL] NOAA Smart Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-03 16:29:27 UTC
From: n9xtn@cox.net
Topic: 1927 Message: 1928

This is an interesting concept of using compressed air as ballast. It requires a firm shell for pressurization. Their initial concept used ordinary weather balloons that were treated with some sort of polymer. More on this at
http://www.soest.hawaii.edu/MET/Faculty/businger/information/PDF/DOC02.pdf

Depending on cost and weight, this could provide a low-cost means to create ARHAB floaters. The polymer may not be necessary for our purposes. The fun part may be getting the smaller balloon inside the larger one, though it may be possible to place the balloons side by side within the outer shell.

If the outer shell could be made relatively air-leak-free, then perhaps only one balloon would be needed, or perhaps a polyurethane bladder could be used as the outer balloon if it's not too expensive.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
Date: Monday, January 2, 2006 10:24 am
Subject: [GPSL] NOAA Smart Balloon

> http://www.noaa.inel.gov/Capabilities/smartballoon/
>

1929. Re: [GPSL] NOAA Smart Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-04 07:26:30 UTC
From: Mike Manes
Topic: 1927 Message: 1929

Hi,

This is the scheme used in the NOAA GAINS project that EOSS has test-flown a few times. The hard part is compressing the air with a pump that doesn't require more battery weight than the balloon can lift. The rigid shell was made from sewn-up ripstop nylon enclosing a latex balloon, and there was a second latex balloon inside for the compressed air. Spectran can be used in lieu of nylon for UV-resistance for LOOOOONG duration flights of many days.

Compressed air ballast has been used before, I believe, like on one of the manned circumnavigation flights. Dense ballast, like sand or fluid, is considered "fuel" by manned helium balloonists. When you run out of ballast, yer coming down (eventually)!

Russ Chadwick KB0TVJ manages that project for NOAA, and he's also a valuable EOSS member. Russ is responsible for the FAA reporting scheme on findu.com.

73 de Mike W5VSI

n9xtn@... wrote:
> This is an interesting concept of using compressed air as ballast. It requires a firm shell for pressurization. Their initial concept used ordinary weather balloons that were treated with some sort of polymer. More on this at
> http://www.soest.hawaii.edu/MET/Faculty/businger/information/PDF/DOC02.pdf
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> Depending on cost and weight, this could provide a low-cost means to create ARHAB floaters. The polymer may not be necessary for our purposes. The fun part may be getting the smaller balloon inside the larger one, though it may be possible to place the balloons side by side within the outer shell.
>
> If the outer shell could be made relatively air-leak-free, then perhaps only one balloon would be needed, or perhaps a polyurethane bladder could be used as the outer balloon if it's not too expensive.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "Ralph Wallio, W0RPK" <W0RPK@...>
> Date: Monday, January 2, 2006 10:24 am
> Subject: [GPSL] NOAA Smart Balloon
>
>
>>http://www.noaa.inel.gov/Capabilities/smartballoon/
>>

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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1930. Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-04 21:12:50 UTC
From: k7rkt
Topic: 1930 Message: 1930

Hi everyone,

THe following announcement was made to some of the high power rocket groups, thought I'd forward it to this group to see if there's any interest. I know that it's pretty simple to put together a small HT, tinytrack and GPS to make an APRS tracker, but if size or weight is important, take a look..... I'm also willing to listen to requests for customizing firmware. For example, adding a temperature sensor.

Original message follows......

BigRedBee is please to announce the availability of the BeeLine GPS Transmitter!

Priced at less than $260, weighing less than 2 ounces and fitting inside a 38mm body tube, tracking your rocket has never been easier or more affordable!

http://www.bigredbee.com/beelinegps.htm

The BeeLine GPS consists of a 70cm FM transmitter and a GPS receiver. Data from the GPS receiver is encoded into standard APRS data packets and then sent out via the embedded 440 Mhz FM transmitter. A standard ham radio receiver along with a PC soundcard and/or amateur radio gear (standard TNC hardware) can be used to decode the data packets. No need for dedicated receiver hardware!

A complete package consists of the BeeLine GPS transmitter, an RS-232 serial adapter, 750mah lithium poly battery (that lasts for more than 8 hours), a li-po battery charger, and SMA antenna connector. The serial adapter and battery charger are compatible with the existing BeeLine transmitter.

A valid amateur radio license is required.

Regards,

-- Greg BigRedBee, LLC

1931. Re: [GPSL] Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-04 22:22:15 UTC
From: Hank Riley
Topic: 1930 Message: 1931

Greg,

I think for this audience especially you need to specify
output power.

Hank

> thought I'd forward it to this group to see
> if there's any interest.

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

1932. Re: Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-04 22:38:08 UTC
From: k7rkt
Topic: 1930 Message: 1932

+12 dBm, or about 16mw.

-- Greg
>
> Greg,
>
> I think for this audience especially you need to specify
> output power.
>
> Hank
> ----------
>
> > thought I'd forward it to this group to see
> > if there's any interest.
>
>
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> _____
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>

1933. Re: NOAA Smart Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-04 23:15:43 UTC
From: nssdz
Topic: 1927 Message: 1933

This isn't new really, We (Near Space Sciences)played with it maybe close to ten years ago. With limited success. Or possibly a total success, we honestly do not know.

I placed into the Photos area on the group page a new folder called NSS. Inside it has 5 pictures you can look at to see what I'm describing.

I'm still trying to find the pictures of the launch, but after moving three times since that flight, i can not seem to find them at the moment. When I do I'll put them also in that folder.

Picture #1
This is a picture of "EarthWinds" a manned version of the similar idea.

Picture #2
A more closeup detailed image of a similar configuration.

Picture #3
This is our project we called it "EarthBreeze" we were doing this at the same time as the "EarthWinds" project, so adopted a similar name.

The Anchor balloon, was made of a slightly heavier wall latex balloon, it was made for the advertising industry, and had a thicker wall so it could take a wee bit more abuse. It similar in size to a TA-300,, but weighed in at the weight of a TA-600.

Anyway the restriction envelope was made from a custom rip stop nylon, It weighed like 10% of similar thicknesses and thread counts, and yet was like twice as strong. It was donated to the project by the manufacturer,, Who? I don't remember, all I remember is when they said how much it cost I almost died!

The diameter of the restriction envelope was determined by three things,

Required amount of anchor.

Available "Bladder" balloons

And most important the final surface tension on the restrictor envelope. I had a program from the fabric maker that would calculate the surface tension for a given diameter vs presure,, and it was incrredible!!

We went "Passive" No pumps, or valves etc. We crunched tons of numbers, we knew what the max altitude would be for the system, so we knew we needed to stay below that height,, so we targeted, 90% of the POP height as our ceiling. ~80K

And then we figured the needed lift that the system would need to stay aloft after sundown. And stay above 60K

Then we figured in the sun-up gain, and calculated the amount of anchor required to stay below the~80K level.

Pushing all those numbers around finally came up with a certain restrictor diameter, that would work with minimal size yet enough anchoring capability. so it would have zero lift at say 65K and yet enough anchor to stay below ~80K

We also knew what the amout of cubic feet of air we needed at ground level we needed to put into the anchor balloon. And then simply tied it off. And that is what you see in Picture #3 The partially inflated Bladder balloon (blue) in the restrictor bag.

Picture #4
Is the Payload itself, it was just a small aluminum project box, maybe 3" cube? It had attached on the ende styrofoam "Floats" Just in Case it went for a swim. The ends of a 20 meter dipole came out the top and bottom.

Picture #5
This is the inside of the payload. definately a throw away! This was before GPS's and all that, all it was, was a pair of the "D" size surplus lithium cells, one of those clock osccilators, and a modified radiosonde baroswitch.

We removed the switchplate, and replaced it with the sliding portion of a slide potentiometer.

The variable resistor controlled the message interval.

A LONG CW message was made with that chip.. It was great! Not totally sure anymnore who made it,, But I got it from Mark KA9SZX.

Anyway, at ground level it ran like 1 WPM. so slow it was annoying it took like 5 min to send the whole message!.

But at altitude, it would have sent the whole message in about 10 seconds or so.

So, how did it work? Hard to say, wish GPS's were available back then,,, well cheap ones at least. because all we had to go on was the timing of the message, (shows altitude) and peoples Beam headings (shows location)

Well, it lifted off at about 2 hours after sun-up without trouble,, was surely a strange sight tho. All was working great. it climbed at an normal rate through our estimated by the timing interval through 30K the ballon then seemed to slow some. but kept climbing. Finally, after more than 4 hours of flight, the message interval stopped changing and stayed constant. By the interval we determined that it was slightly past the desired ~80K and was more close to ~90K! but it

was staying up there,

We and a net on HF followed it all day, and we thought YEAH!, then the moment of truth,, sundown!

The interval message almost immediately started slowing down as expected, we just didn't expect that soon.

Now we though it's now to see how far it sinks till it levels off again.

It was quite slow, took over 2 hours to drop to ~70K (estimate) Then it happened,

I'm thinking the cold finally made it into the resistor card, what happens to resistance under extreme cold,,? you guessed it!

The WPM speed started climbing, we thought something happened to the anchor balloon,, like a seam popped or something because we thought it was climbing again.

But it started going crazy warp speed! The whole message sounded more like packet then CW.

Someone with their computer with a soundcard was listening to it,, and the whole message was going out in like 1/2 a second!

A houir later it started getting a hissy broadband sound to it. then it started getting intermittent, and a hour later dead scilence!

We listened for a few hours more, Nothing.

At sunup we started listening again.. Thought maybe we could hear it,, maybe not,,? started asking for reports on freq, and several station came on saying they hear it in Florida, colorado, and up in VE3 land,,

I told them to time the interval, and get their best beamheading they can.

By the interval, it seemed to be at ~75K or so. YEAH!!!! And by the beam headings somewhere in 1 land.

DAMM I CAN'T HEAR IT!

Kept tabbs on it all day,, and into the next night, when the same thing happened,, hyperspeed,, then death.
Last guess beamheading was from Maine, England and again Florida, and they crossed someplace slightly east of Iceland.

So did it work? sems so, but without better gear and GPS onboard, will never know for sure,, Will we try it again?

Love to!

Take Care

Joe
WB9SBD
Near Space Sciences

--- In GPSL@yahoogroups.com, n9xtn@c... wrote:
>
> This is an interesting concept of using compressed air as ballast.
It requires a firm shell for pressurization. {snip}

1934. Re: [GPSL] Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 18:43:40 UTC
From: Mike Manes
Topic: 1930 Message: 1934

That, plus operation in ambient temperatures down to -80C and
GPS funtionality to over 120,000 ft MSL (preferably to at least
40 km elevation in $GPGGA word.

73 de Mike W5VSI, EOSS

Hank Riley wrote:
> Greg,
>
> I think for this audience especially you need to specify
> output power.
>
> Hank
> ------------------
>
>
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>>if there's any interest.
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> _____________________________________
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1935. Re: NOAA Smart Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 19:18:40 UTC
From: K. Mark Caviezel
Topic: 1927 Message: 1935

Some very interesting history of air ballasted
balloons - the Earthwinds project - is included in
"Just Winds", Bill Armstrong Jr.'s book primarily
about the Earthwinds Project.

It seems like a lot of technology for a low level,
couple day flight - sand or liquid ballast can do the
same job with much less hassle it seems.

-KMC

--- GPSL@yahoogroups.com wrote:

> There is 1 message in this issue.
>
> Topics in this digest:
>
> 1. Re: NOAA Smart Balloon
> From: Mike Manes <manes@...>
>
>
>

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>

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>
> Message: 1
> Date: Wed, 04 Jan 2006 00:26:30 -0700
> From: Mike Manes <manes@...>
> Subject: Re: NOAA Smart Balloon
>
> Hi,
>
> This is the scheme used in the NOAA GAINS project
> that EOSS has test-
> flown a few times. The hard part is compressing the
> air with a pump
> that doesn't require more battery weight than the
> balloon can lift.
> The rigid shell was made from sewn-up ripstop nylon
> enclosing a latex
> balloon, and there was a second latex balloon inside
> for the compressed
> air. Spectran can be used in lieu of nylon for
> UV-resistance for
> LOOOOONG duration flights of many days.

>
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> believe, like on one
> of the manned circumnavigation flights. Dense
> ballast, like sand or
> fluid, is considered "fuel" by manned helium
> balloonists. When you
> run out of ballast, yer coming down (eventually)!
>
> Russ Chadwick KB0TVJ manages that project for NOAA,
> and he's also
> a valuable EOSS member. Russ is responsible for the
> FAA reporting
> scheme on findu.com.
>
> 73 de Mike W5VSI
>
> n9xtn@... wrote:
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> air as ballast. It requires a firm shell for
> pressurization. Their initial concept used ordinary
> weather balloons that were treated with some sort of
> polymer. More on this at
> >
>
http://www.soest.hawaii.edu/MET/Faculty/businger/information/PDF/DOC02.pdf
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> low-cost means to create ARHAB floaters. The
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> the larger one, though it may be possible to place
> the balloons side by side within the outer shell.
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> > If the outer shell could be made relatively
> air-leak-free, then perhaps only one balloon would
> be needed, or perhaps a polyurethane bladder could
> be used as the outer balloon if it's not too
> expensive.
> >
> > 73 de Mark N9XTN
> >
> > ----- Original Message -----
> > From: "Ralph Wallio, W0RPK" <W0RPK@...>
> > Date: Monday, January 2, 2006 10:24 am
> > Subject: [GPSL] NOAA Smart Balloon
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>>http://www.noaa.inel.gov/Capabilities/smartballoon/

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> Mike Manes manes@... Tel:
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
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1936. Re: [GPSL] Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 20:43:21 UTC
From: Hank Riley
Topic: 1930 Message: 1936

> That, plus operation in ambient temperatures down to -80C and
> GPS funtionality to over 120,000 ft MSL (preferably to at least
> 40 km elevation in $GPGGA word.

Mike,

I almost made a short list that would have included low
temp. operation, but just stuck with the power output.

Greg, I think Mike's questions are certainly worth
including in specs for ballooners, and to that I'd add
the lower voltage limit for proper operation.

Have you been able to test the stability of the PLL to
any kind of cold temperature, say at least -10 F? I use
that because it might not be too hard to attain in a
consumer freezer, not that it's adequate for balloon
use.

It looks like a nice product, but my impression is that
it's very expensive from a ham (at least this one)
perspective.

Hank

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

1937. Re: Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 21:26:40 UTC
From: k7rkt
Topic: 1930 Message: 1937

Good points, all of them. I'll see what kind of specs I can dig up
on temperature, as well as do some actual testing in the deep-freeze.

From the feedback I've gotten, the biggest drawback is the lack of
support on 2 meters-- perhaps something I can address in a new
version of the product.

As for the price.... The pricepoint was picked to be be *way* below
some of the other small, integrated devices out there intended for
the high power rocket market (where size is critical), like
GPSFlight. But I agree, compared to an old HT and a surplus GPS,
this product is more expensive unless size/weight is a factor.

Regareds,

-- Greg

--- In GPSL@yahoogroups.com, Hank Riley <n1ltv@y...> wrote:
>
> > That, plus operation in ambient temperatures down to -80C and
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> Hank
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>

1938. Re: [GPSL] Re: Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 21:39:00 UTC
From: John C Nordlie
Topic: 1930 Message: 1938

Engineering students here were able to get a commercial freezer
down to -38F by bypassing the thermostat. Adding insulation
would probably help too. Avoid self-defrosting models :).

On Thu, 5 Jan 2006, k7rkt wrote:

> Good points, all of them. I'll see what kind of specs I can dig up
> on temperature, as well as do some actual testing in the deep-freeze.
>
> >From the feedback I've gotten, the biggest drawback is the lack of
> support on 2 meters-- perhaps something I can address in a new
> version of the product.
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1939. Re: [GPSL] Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 22:02:54 UTC
From: Mike Manes
Topic: 1930 Message: 1939

It's pretty simple to maintain a min internal temp of -10C if
there's a few watts of power dissipation inside and the package
includes even modest thermal insulation. But I wasn't sure if
the BeeLine came packaged - at 2 oz, I reckon not.

73 de Mike W5VSI

Hank Riley wrote:
>>That, plus operation in ambient temperatures down to -80C and
>>GPS funtionality to over 120,000 ft MSL (preferably to at least
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1940. Re: [GPSL] Re: NOAA Smart Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-05 21:56:18 UTC
From: Mike Manes
Topic: 1927 Message: 1940

I agree, if the flight's just a day or so. But for longer
flights, ballast is like fuel - when you run out, the end is
near. But air is always there for the pumping, if you have
the power to do it.

73 de Mike W5VSI

K. Mark Caviezel wrote:
> Some very interesting history of air ballasted
> balloons - the Earthwinds project - is included in
> "Just Winds", Bill Armstrong Jr.'s book primarily
> about the Earthwinds Project.
>
> It seems like a lot of technology for a low level,
> couple day flight - sand or liquid ballast can do the
> same job with much less hassle it seems.
>
> -KMC
>
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> --- GPSL@yahoogroups.com wrote:
>
>
>>There is 1 message in this issue.
>>
>>Topics in this digest:
>>
>> 1. Re: NOAA Smart Balloon
>> From: Mike Manes <manes@...>
>>
>>
>>
> _____
>
> _____
>
>>Message: 1
>> Date: Wed, 04 Jan 2006 00:26:30 -0700
>> From: Mike Manes <manes@...>
>>Subject: Re: NOAA Smart Balloon
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>>Hi,
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>>This is the scheme used in the NOAA GAINS project
>>that EOSS has test-
>>flown a few times. The hard part is compressing the
>>air with a pump
>>that doesn't require more battery weight than the
>>balloon can lift.
>>The rigid shell was made from sewn-up ripstop nylon
>>enclosing a latex
>>balloon, and there was a second latex balloon inside
>>for the compressed
>>air. Spectran can be used in lieu of nylon for
>>UV-resistance for
>>LOOOOONG duration flights of many days.
>>
>>Compressed air ballast has been used before, I
>>believe, like on one
>>of the manned circumnavigation flights. Dense
>>ballast, like sand or
>>fluid, is considered "fuel" by manned helium
>>balloonists. When you
>>run out of ballast, yer coming down (eventually)!
>>
>>Russ Chadwick KB0TVJ manages that project for NOAA,
>>and he's also
>>a valuable EOSS member. Russ is responsible for the
>>FAA reporting
>>scheme on findu.com.
>>
>>73 de Mike W5VSI
>>
>>n9xtn@... wrote:
>>
>>>This is an interesting concept of using compressed
>>
>>air as ballast. It requires a firm shell for
>>pressurization. Their initial concept used ordinary
>>weather balloons that were treated with some sort of
>>polymer. More on this at
>>
> http://www.soest.hawaii.edu/MET/Faculty/businger/information/PDF/DOC02.pdf
>
>>>Depending on cost and weight, this could provide a
>>
>>low-cost means to create ARHAB floaters. The
>>polymer may not be necessary for our purposes. The
>>fun part may be getting the smaller balloon inside
>>the larger one, though it may be possible to place
>>the balloons side by side within the outer shell.
>>
>>>If the outer shell could be made relatively

>>
>>air-leak-free, then perhaps only one balloon would
>>be needed, or perhaps a polyurethane bladder could
>>be used as the outer balloon if it's not too
>>expensive.
>>
>>>73 de Mark N9XTN
>>>
>>>----- Original Message -----
>>>From: "Ralph Wallio, W0RPK" <W0RPK@...>
>>>Date: Monday, January 2, 2006 10:24 am
>>>Subject: [GPSL] NOAA Smart Balloon
>>>
>>>
>>
>>>http://www.noaa.inel.gov/Capabilities/smartballoon/
>>>
>>>
>>>
>>>
>>>
>>>Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>
>>--
>>Mike Manes manes@... Tel:
>>303-979-4899
>>"Things should be made as simple as possible, but
>>not more so." A. Einstein
>>
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>>Yahoo! Groups Links
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>> GPSL-unsubscribe@yahoogroups.com
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> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1941. Re: [GPSL] Re: Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-06 15:48:40 UTC
From: Stephanie Steele
Topic: 1930 Message: 1941

Hi Greg,

I think your price point is quite reasonable. I understand that making quality products designed for hams is a challenge as the market is fairly small and the investment in time and capital is signifigant. I appreciate the work you have put into this design and making us aware of it. I would suggest that you consider using dry ice for your temperature testing. It will get you to realistic balloon temperatures (-92 degrees) with little cost and without causing probable damage to your freezer by modification.

Stephanie

k7rkt wrote:

>Good points, all of them. I'll see what kind of specs I can dig up
>on temperature, as well as do some actual testing in the deep-freeze.
>
>>From the feedback I've gotten, the biggest drawback is the lack of
>support on 2 meters-- perhaps something I can address in a new
>version of the product.
>
>As for the price.... The pricepoint was picked to be be *way* below
>some of the other small, integrated devices out there intended for
>the high power rocket market (where size is critical), like
>GPSFlight. But I agree, compared to an old HT and a surplus GPS,
>this product is more expensive unless size/weight is a factor.
>
>Regareds,
>
>-- Greg
>
>--- In GPSL@yahoogroups.com, Hank Riley <n1ltv@y...> wrote:
>
>
>>>That, plus operation in ambient temperatures down to -80C and
>>>GPS funtionality to over 120,000 ft MSL (preferably to at least
>>>40 km elevation in $GPGGA word.
>>>
>>>
>>Mike,
>>
>>I almost made a short list that would have included low
>>temp. operation, but just stuck with the power output.
>>
>>Greg, I think Mike's questions are certainly worth

>>including in specs for ballooners, and to that I'd add
>>the lower voltage limit for proper operation.
>>
>>Have you been able to test the stability of the PLL to
>>any kind of cold temperature, say at least -10 F? I use
>>that because it might not be too hard to attain in a
>>consumer freezer, not that it's adequate for balloon
>>use.
>>
>>It looks like a nice product, but my impression is that
>>it's very expensive from a ham (at least this one)
>>perspective.
>>
>>Hank
>>
>>
>>
>>
>>_____
>>Yahoo! DSL ? Something to write home about.
>>Just $16.99/mo. or less.
>>dsl.yahoo.com
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>Yahoo! Groups Links
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--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

The information contained in this e-mail message is private and confidential information intended only for the use of the individual or entity to whom it is addressed. If the reader of this e-mail message is not the intended recipient you are notified any disclosure, dissemination, distribution, copying or the taking of any action based upon the information contained in this message is strictly prohibited.

de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

IMPORTANT: This email is intended for the use of the
individual addressee(s) named above and may contain
information that is confidential privileged or unsuitable
for overly sensitive persons with low self-esteem, no
sense of humor or irrational religious beliefs. If you are
not the intended recipient, any dissemination, distribution
or copying of this email is not authorized (either explicitly
or implicitly) and constitutes an irritating social faux pas.
Unless the word absquatulation has been used in its
correct context somewhere other than in this warning,
it does not have any legal or grammatical use and may
be ignored. No animals were harmed in the transmission
of this email, although the kelpie next door is living on
borrowed time, let me tell you.

Those of you with an overwhelming fear of the unknown
will be gratified to learn that there is no hidden message
revealed by reading this warning backwards, so just ignore
that Alert Notice from Microsoft. However, by pouring a
complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

1942. HABITAT SkyLab balloon launch 1/8/6

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-07 15:45:49 UTC
From: Don KA0JLF
Topic: 1930 Message: 1942

Forwarded email, on HABITAT SkyLab balloon launch
Sunday 1/8/6:

I got my BigRedBee "Beeline" GPS back today with the
latest firmware and it
is ready for it's maiden balloon flight.

Don & Group this what I have setup for Sunday's 10am
launch at the park.

TT3 Package = 144.34 K0NMS-11 and is set for time
slotting on the 13
second.
Beeline GPS = 441.175 K0NMS-7 and is set to beacon
once every 15
seconds.
Beeline Beacon = 433.72 CW of K0NMS and it also
does CW of bat voltage.
Rino = Chan 13

I have my new chute with the cut down device installed
and ready for it's
1st
flight.

As you can see from the above call signs -- I seem to
have the Vegas
gamble
in me with using "7 / 11".

Later - Nick
K?NMS
WPWG368

73
Don KA0JLF

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

1943. Re: [GPSL] Announcing BeeLine GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-07 16:08:28 UTC
From: Don KA0JLF
Topic: 1930 Message: 1943

We (Nick) will be flying one tomorrow.

From Nick email to our group:

"I got my BigRedBee "Beeline" GPS back today with the
latest firmware and it
is ready for it's maiden balloon flight.

Don & Group this what I have setup for Sunday's 10am
launch at the park.

...

Beeline GPS = 441.175 K0NMS-7 and is set to beacon
once every 15
seconds.
Beeline Beacon = 433.72 CW of K0NMS and it also
does CW of bat voltage.
Rino = Chan 13 "

Today, I hope to get the RINO (FRS) Text-To-Speech
add-on packed up for flight tomorrow. I haven't
decided on the FRS channel yet. First flight will be
pretty simple, periodic altitude voice announcements
and ID. IF I don't break it. ;-) Either way Dean and
my RINO/OpenTrak package should fly tomorrow with my
callsign.

73
Don KA0JLF
HABITAT SkyLab

--- k7rkt <gregclark@...> wrote:

> Hi everyone,
>
> THe following announcement was made to some of the
> high power rocket
> groups, thought I'd forward it to this group to see
> if there's any
> interest. I know that it's pretty simple to put
> together a small
> HT, tinytrack and GPS to make an APRS tracker, but
> if size or weight
> is important, take a look..... I'm also willing to
> listen to
> requests for customizing firmware. For example,

> adding a
> temperature sensor.
>
> Original message follows......
>
>
> BigRedBee is please to announce the availability of
> the BeeLine GPS
> Transmitter!
>
> Priced at less than $260, weighing less than 2
> ounces and fitting
> inside a 38mm body tube, tracking your rocket has
> never been easier
> or more affordable!
>
> http://www.bigredbee.com/beelinegps.htm
>
> The BeeLine GPS consists of a 70cm FM transmitter
> and a GPS receiver.
> Data from the GPS receiver is encoded into standard
> APRS data packets
> and then sent out via the embedded 440 Mhz FM
> transmitter. A standard
> ham radio receiver along with a PC soundcard and/or
> amateur radio
> gear (standard TNC hardware) can be used to decode
> the data packets.
> No need for dedicated receiver hardware!
>
> A complete package consists of the BeeLine GPS
> transmitter, an RS-232
> serial adapter, 750mah lithium poly battery (that
> lasts for more than
> 8 hours), a li-po battery charger, and SMA antenna
> connector. The
> serial adapter and battery charger are compatible
> with the existing
> BeeLine transmitter.
>
> A valid amateur radio license is required.
>
> Regards,
>
> -- Greg BigRedBee, LLC

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dsl.yahoo.com

1944. Habitat SkyLab reception reports from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-08 19:24:25 UTC
From: Ralph Wallio, W0RPK
Topic: 1944 Message: 1944

Don,

All of this was over a line-of-sight path distance of ~180mi (181.78mi when at 35kft).

144.34 APRS data was copied from 15k on up via an omni-directional vertical.

BeeLine CW beacon came up out of the noise via a vertically polarized 10ele Yagi e/w a mast-mount low-noise preamp from ~25kft on up. It was armchair copy ~35kft on up:

~25kft N0NMS V1 4.24 V0 4.11
~35kft N0NMS V1 4.24 V0 4.11
~45kft N0NMS V1 4.23 V0 4.10

(Note the difference in transmitted characters ~45kft vs both ~25kft and ~35kft. At first I thought these were software version numbers but, with the difference in characters, maybe not.)

I was listening via two receivers and antennas but never heard a peep of BeeLine APRS data on 441.175.

RINO locating data on chan-13 was full quieting on an FRS HT from ~35kft on up. If I were RINO equipped I probably would have received position reports. This is an interesting experiment which I would like to read about in someone's web pages.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1945. Re: [GPSL] Habitat SkyLab reception reports from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-08 23:51:06 UTC
From: Don KA0JLF
Topic: 1944 Message: 1945

Thanks for the report Ralph. I just got the truck
unloaded and walked in the door to check email.

Got some other reports. All in all another successful
flight, after a VERY WINDY launch!! Thankfully, a very
easy recovery, in a corn field.

If Nick/Jerome don't write something up on it, I will.
I got some good photos, I hope, of both CW and GPS at
lunch. It was a very interesting topic at lunch. I
think several of us are sold on them.

More later,
73 to all,
Don

--- "Ralph Wallio, W0RPK" <W0RPK@...> wrote:

> Don,
>
> All of this was over a line-of-sight path distance
> of ~180mi (181.78mi when
> at 35kft).
>
> 144.34 APRS data was copied from 15k on up via an
> omni-directional vertical.
>
> BeeLine CW beacon came up out of the noise via a
> vertically polarized 10ele
> Yagi e/w a mast-mount low-noise preamp from ~25kft
> on up. It was armchair
> copy ~35kft on up:
>
> ~25kft N0NMS V1 4.24 V0 4.11
> ~35kft N0NMS V1 4.24 V0 4.11
> ~45kft N0NMS V1 4.23 V0 4.10
>
> (Note the difference in transmitted characters
> ~45kft vs both ~25kft and
> ~35kft. At first I thought these were software
> version numbers but, with
> the difference in characters, maybe not.)
>
> I was listening via two receivers and antennas but
> never heard a peep of
> BeeLine APRS data on 441.175.

>
> RINO locating data on chan-13 was full quieting on
> an FRS HT from ~35kft on
> up. If I were RINO equipped I probably would have
> received position
> reports. This is an interesting experiment which I
> would like to read about
> in someone's web pages.
>
> TNX es 73 de Ralph Wallio, W0RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
>
>
>

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1946. Re: [GPSL] Habitat SkyLab reception reports from Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-09 00:05:06 UTC
From: Don KA0JLF
Topic: 1944 Message: 1946

--- "Ralph Wallio, W0RPK" <W0RPK@...> wrote:
> RINO locating data on chan-13 was full quieting on
> an FRS HT from ~35kft on
> up. If I were RINO equipped I probably would have
> received position
> reports. This is an interesting experiment which I
> would like to read about
> in someone's web pages.

As you could tell I didn't fly the Text-To-Speech board on the RINO as I had hoped. It will be more of a priority for me on the next flight. It should allow anyone with an FRS to get voice flight updates, primarily location, altitude, temperature, course and direction from the balloon. Should allow and kid with a cheap FRS particpate. Did I understand; you heard it ok, at least the position report data.

My experiments, should show up, at some point but it's been years in the making so far. ;-) As is true with my other projects, I am being tought to just keep my mouth shut. Good training in that regard today. ;-)

73
Don

_____
Yahoo! DSL ? Something to write home about.
Just $16.99/mo. or less.
dsl.yahoo.com

1947. Li-poly batteries for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-11 19:37:36 UTC
From: K. Mark Caviezel
Topic: 1947 Message: 1947

Possibly of interest to ARHABians with power hungry
payloads.

> Message: 1
> Date: Mon, 09 Jan 2006 23:32:51 -0000
> From: "jonnyclaw" <solar-flight@...>
> Subject: Li-poly batteries for sale
>
> Greetings,
>
> I have a shipment of brand new RC Li-poly battery
> packs from
> Advanced Battery Factory (ABF) in China for sale. I
> imported them
> to use on one of my electric vehicles but couldn't
> continue the
> project for various reasons (money). These would be
> excellent for
> electric scooters/motorcycles, electric bikes,
> battle-bots, or large
> scale electric RC aircraft. The packs are 14.8V and
> 11000mAh (or
> 11Ah) in a 4S5P configuration. The best part about
> these packs is
> each comes with an integrated battery management
> system (BMS) to
> insure safety and pack longevity, which no other RC
> Li-poly provider
> currently offers. In other words, no worrying about
> your pack
> exploding or catching fire. The packs can easily be
> charged from
> any number of lithium-friendly hobby chargers (I use
> the Triton
> charger). These packs are brand new, never used!
> I've put each
> pack through one charge/discharge cycle (controlled
> by the Triton
> charger) to verify functionality. You can't beat
> the energy and
> power density of these things!
>
> Please email me directly for the complete
> specifications and
> pricing. I'm not a distributor for ABF, just trying

> to re-coup my
> investment. You can reach me at
> solar-flight@.... I can
> email pictures as well.
>
> Regards,
> jonnyclaw
>
>

1948. ARHAB 2005 Contest results

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-11 20:41:19 UTC
From: Ralph Wallio, W0RPK
Topic: 1948 Message: 1948

ARHAB 2005 Contest results:

Highest GPS Reported Altitude (feet ASL)
118,352 14Jul05 ISU/HABET L-93
115,942 22Oct05 UTARC UX-3
114,973 03Sep05 HiBall-4 (WB8ELK)
113,953 22Oct05 EOSS-99
111,453 29Jan05 SUNTRACKER-XIII
111,446 17Dec05 HiBall-6 (WB8ELK)
111,259 19Nov05 ASTRO-4
111,088 01Oct05 TRAVELER 2005C
108,681 24May05 LaACES-02
101,945 10Dec05 ASTRO-05
100,131 24May05 LaACES-03
98,445 05Nov05 ASTRO-3
97,434 09Apr05 2005A (Explorer Post 632)
95,565 21May05 ORB-17

Longest Great Circle Distance, Release to Touchdown
1,411.41 17Dec05 HiBall-6 (WB8ELK) last known position
174.30 21Jun05 GPA DIY ZP SD-8
135.87 29Jan05 SUNTRACKER-XIII
93.10 05Nov05 ASTRO-3

Longest Flight Time, Release to Touchdown
20:05 17Dec05 HiBall-6 (WB8ELK) last known position
5:46 21Jun05 GPA DIY ZP SD-8
3:12 29Jan05 SUNTRACKER-XIII

Greatest Telemetry Downlink Reception Range - >50MHz
374.3 08Oct05 ORB-19 W?RPK
309.1 01Oct05 TRAVELER 2005C W?RPK
246.0 27Aug05 CNNSP-03 W?RPK
245.0 10Sep05 HABITAT SKYLAB W?RPK
190.8 26Feb05 KU KUBEsat HABS-7 W?RPK
170.5 30May05 NSTAR-05C W?RPK

Greatest Telemetry Downlink Reception Range - <50MHz
1,870 30Dec05 ANSR-28/ES-OS PSK-31/20m KF4KJQ
1,853 31Dec05 UTARC UX-5 CW/20m HP1AC (Panama)
1,719 03Sep05 ANSR-25 PSK-31/20m W8CSN
1,324 30Dec05 ANSR-28/ES-OS PSK-31/20m N4MSJ
1,316 03Sep05 ANSR-25 PSK-31/20m K?HZI
1,179 03Sep05 ANSR-25 PSK-31/20m W?RPK
1,149 30Dec05 ANSR-28/ES-OS PSK-31/20m W?RPK
1,118 30Dec05 ANSR-28/ES-OS PSK-31/20m KD7KST

860 31Dec05 UTARC UX-5 CW/20m NG5E/MM
843 31Dec05 UTARC UX-5 CW/20m W?RPK

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance
497 28Aug05 HABITAT SkyLab KC5TRB<>KA9SZX
471 08Oct05 ANSR-26 XE2BSS<>XE2MXZ
386 28Aug05 HABITAT SkyLab KC5TRB<>W?RPK

Additional 2005 Contest entries may be submitted until 15Jan06. There is no time limit for all-time record entries.

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1949. Re: [GPSL] Li-poly batteries for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-11 22:39:13 UTC
From: n9xtn@cox.net
Topic: 1947 Message: 1949

http://home.earthlink.net/~solar-flight/

The seller quoted a price of $295 for qty 1, discounts for more than that are available. Details at the URL above.

73 de Mark N9XTN

----- Original Message -----
From: "K. Mark Caviezel" <kmcaviezel@...>
Date: Wednesday, January 11, 2006 1:37 pm
Subject: [GPSL] Li-poly batteries for sale

> Possibly of interest to ARHABians with power hungry
> payloads.
>
>

1950. EOSS-102 back on docket for UKy Big Blue 4

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-14 04:31:05 UTC
From: Mike Manes
Topic: 1950 Message: 1950

Hi Ralph,

EOSS-102 is back on as EOSS-102, now resked for 8/9 April out of
Windsor CO. APRs TBD-11 on 144.34, DF/cutter on 147.555 and ATV on
426.25. Balloon size and payload particulars pending.

73 de Mike W5VSI
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1951. ARHAB 2005 Contest results (final report)

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-18 13:39:53 UTC
From: Ralph Wallio, W0RPK
Topic: 1951 Message: 1951

A few additional 2005 Contest entries were received before our 15Jan06 deadline. Our 2005 Contest is now closed. Distribution of prizes is now in the capable hands of Paul Verhage, KD4STH.

There is no time limit for all-time record entries.

ARHAB 2005 Contest results:

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115,942 22Oct05 UTARC UX-3
114,973 03Sep05 HiBall-4 (WB8ELK)
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111,446 17Dec05 HiBall-6 (WB8ELK)
111,259 19Nov05 ASTRO-4
111,088 01Oct05 TRAVELER 2005C
108,681 24May05 LaACES-02
105,761 19Nov05 ANSR-27
101,945 10Dec05 ASTRO-05
100,131 24May05 LaACES-03
98,445 05Nov05 ASTRO-3
97,434 09Apr05 2005A (Explorer Post 632)
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265.30 30Dec05 ANSR-28
174.30 21Jun05 GPA DIY ZP SD-8
135.87 29Jan05 SUNTRACKER-XIII
93.10 05Nov05 ASTRO-3

Longest Flight Time, Release to Touchdown
20:05 17Dec05 HiBall-6 (WB8ELK) last known position
7:50 30Dec05 ANSR-28
5:46 21Jun05 GPA DIY ZP SD-8
3:12 29Jan05 SUNTRACKER-XIII

Greatest Telemetry Downlink Reception Range - >50MHz
374.3 08Oct05 ORB-19 W?RPK
309.1 01Oct05 TRAVELER 2005C W?RPK
246.0 27Aug05 CNNSP-03 W?RPK
245.0 10Sep05 HABITAT SKYLAB W?RPK
190.8 26Feb05 KU KUBEsat HABS-7 W?RPK
170.5 30May05 NSTAR-05C W?RPK

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1,324 30Dec05 ANSR-28/ES-OS PSK-31/20m N4MSJ
1,316 03Sep05 ANSR-25 PSK-31/20m K?HZI
1,179 03Sep05 ANSR-25 PSK-31/20m W?RPK
1,149 30Dec05 ANSR-28/ES-OS PSK-31/20m W?RPK
1,118 30Dec05 ANSR-28/ES-OS PSK-31/20m KD7KST
860 31Dec05 UTARC UX-5 CW/20m NG5E/MM
843 31Dec05 UTARC UX-5 CW/20m W?RPK

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance
497 28Aug05 HABITAT SkyLab KC5TRB<>KA9SZX
471 08Oct05 ANSR-26 XE2BSS<>XE2MXZ (Mexico)
386 28Aug05 HABITAT SkyLab KC5TRB<>W?RPK

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1952. Re: [GPSL] ARHAB 2005 Contest results (final report)

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-18 20:28:27 UTC
From: PAUL VERHAGE
Topic: 1951 Message: 1952

I'll need a name and address for the awards.

Who is my POC for HABET?
WB8ELK, what addresses do you want me to use? You get two subscriptions, so please pick two team members.
Harry
Michael, are you my POC for ANSR?
Don

Thanks everyone.

Paul

I'm still waiting to hear from OnSet and Kaymont.

>>> W0RPK@... 1/18/2006 6:39 am >>>
A few additional 2005 Contest entries were received before our 15Jan06
deadline. Our 2005 Contest is now closed. Distribution of prizes is now in
the capable hands of Paul Verhage, KD4STH.

There is no time limit for all-time record entries.

ARHAB 2005 Contest results:

Highest GPS Reported Altitude (feet ASL)
118,352 14Jul05 ISU/HABET L-93
115,942 22Oct05 UTARC UX-3
114,973 03Sep05 HiBall-4 (WB8ELK)
113,953 22Oct05 EOSS-99
111,453 29Jan05 SUNTRACKER-XIII
111,446 17Dec05 HiBall-6 (WB8ELK)
111,259 19Nov05 ASTRO-4
111,088 01Oct05 TRAVELER 2005C
108,681 24May05 LaACES-02
105,761 19Nov05 ANSR-27
101,945 10Dec05 ASTRO-05
100,131 24May05 LaACES-03
98,445 05Nov05 ASTRO-3
97,434 09Apr05 2005A (Explorer Post 632)
95,565 21May05 ORB-17

Longest Great Circle Distance, Release to Touchdown
1,411.41 17Dec05 HiBall-6 (WB8ELK) last known position
265.30 30Dec05 ANSR-28
174.30 21Jun05 GPA DIY ZP SD-8
135.87 29Jan05 SUNTRACKER-XIII
93.10 05Nov05 ASTRO-3

Longest Flight Time, Release to Touchdown
20:05 17Dec05 HiBall-6 (WB8ELK) last known position
7:50 30Dec05 ANSR-28
5:46 21Jun05 GPA DIY ZP SD-8
3:12 29Jan05 SUNTRACKER-XIII

Greatest Telemetry Downlink Reception Range - >50MHz
374.3 08Oct05 ORB-19 WØRPK
309.1 01Oct05 TRAVELER 2005C WØRPK
246.0 27Aug05 CNNSP-03 WØRPK
245.0 10Sep05 HABITAT SKYLAB WØRPK
190.8 26Feb05 KU KUBEsat HABS-7 WØRPK
170.5 30May05 NSTAR-05C WØRPK

Greatest Telemetry Downlink Reception Range - <50MHz
1,870 30Dec05 ANSR-28/ES-OS PSK-31/20m KF4KJQ
1,853 31Dec05 UTARC UX-5 CW/20m HP1AC (Panama)
1,719 03Sep05 ANSR-25 PSK-31/20m W8CSN
1,324 30Dec05 ANSR-28/ES-OS PSK-31/20m N4MSJ
1,316 03Sep05 ANSR-25 PSK-31/20m KØHZI
1,179 03Sep05 ANSR-25 PSK-31/20m WØRPK
1,149 30Dec05 ANSR-28/ES-OS PSK-31/20m WØRPK
1,118 30Dec05 ANSR-28/ES-OS PSK-31/20m KD7KST
860 31Dec05 UTARC UX-5 CW/20m NG5E/MM
843 31Dec05 UTARC UX-5 CW/20m WØRPK

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance
497 28Aug05 HABITAT SkyLab KC5TRB<>KA9SZX
471 08Oct05 ANSR-26 XE2BSS<>XE2MXZ (Mexico)
386 28Aug05 HABITAT SkyLab KC5TRB<>WØRPK

TNX es 73 de Ralph Wallio, W0RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

Yahoo! Groups Links

1953. Spring Launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-19 15:38:16 UTC
From: PAUL VERHAGE
Topic: 1951 Message: 1953

Is anyone in the western half of the US planning to launch a balloon from 26 Mar to 1 Apr?

That's my Spring Break. I usually travel and would like to do a launch.

Paul

1954. Re: [GPSL] Spring Launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-19 17:34:32 UTC
From: n9xtn@cox.net
Topic: 1951 Message: 1954

NSTAR is tentatively planning to fly from the 2006 Central Plains Severe Weather Symposium in Lincoln NE on Saturday, April 1.

- Mark

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
Date: Thursday, January 19, 2006 9:38 am
Subject: [GPSL] Spring Launch?

> Is anyone in the western half of the US planning to launch a balloon
> from 26 Mar to 1 Apr?
>
> That's my Spring Break. I usually travel and would like to do a
> launch.
>
> Paul
>
>

1955. Re: [GPSL] Spring Launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-19 16:20:09 UTC
From: rahammond@charter.net
Topic: 1951 Message: 1955

Hi Paul,

If you don't get better offer, and you feel like journeying this far, we could probably put something together.

Roger - KC0MWM
CNNSP
Grand Island, NE

> Is anyone in the western half of the US planning to launch a balloon
> from 26 Mar to 1 Apr?

1956. APRSLink - email to anywhere from APRS messages

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-21 11:13:33 UTC
From: Ralph Wallio, W0RPK
Topic: 1956 Message: 1956

E-mail messages could be sent and received by balloon payloads to/from any e-mail address -- could be used to send telemetry reports to and receive commands from a distant command ground station. APRSLink is up and running today. -w0rpk

* Winlink 2000, APRS join forces with APRSLink:

Following the Amateur Radio response to some recent disasters, Bob Bruninga, WB4APR, proposed using the Automatic Position Reporting System (APRS) to enable mobile and remote APRS users to access their Winlink 2000 e-mail accounts under emergency or unusual conditions.

In response, the Winlink 2000 development team came up with APRSLink. APRSLink monitors all APRS traffic gated to the Internet and watches for special commands that allow APRS users to read or send short e-mail messages to and from other Winlink 2000 users, perform e-mail maintenance, receive notices of pending Winlink 2000 e-mail via APRS and query the APRSLink server for information on the closest Telpac gateway or Winlink participating station.

Details are on the APRSLink Web page <http://www.winlink.org/aprslink.htm>.

1957. Re: [GPSL] Spring Launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-21 22:43:17 UTC
From: PAUL VERHAGE
Topic: 1951 Message: 1957

Thanks. I'll start getting my plans together and let you know.

Paul

>>> rahammond@... >>>
Hi Paul,

If you don't get better offer, and you feel like journeying this far, we
could probably put something together.

Roger - KC0MWM
CNNSP
Grand Island, NE

> Is anyone in the western half of the US planning to launch a balloon
> from 26 Mar to 1 Apr?

Yahoo! Groups Links

1958. Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-23 14:30:36 UTC
From: kc0nsr
Topic: 1958 Message: 1958

I ran across this in the morning paper here in Fargo, ND, and I wanted to ask the experts here for their opinion:

http://www.in-forum.com/articles/index.cfm?id=115295§ion=News

I'm not sure directly hotlinking to the article works, but if not, it's about a company here in ND that plans to loft balloons with cell phone repeaters to 20 miles up, to provide coverage for the more remote parts of the state. They will have nine balloons in the air at any given time. It's much cheaper than putting up towers every 30 miles.

I know this isn't a new idea, but I wonder if this will actually work. Based on what I know about how ballooning works, these things will only be at their max altitude (and cell range) for only very short times. Unless they have a way have them hang at a specific altitude, but nothing in the article mentions that, and their per-flight cost seems too low for these to be very sophisticated.

Finally, does this mean ballooning here in the northern plains just got easier, or more complicated with the extra traffic?

Paul "Waiting for spring to get our balloon up" Seifert
ConHAB
KC0NSR

1959. Re: [GPSL] Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-23 17:04:39 UTC
From: Ralph Wallio, W0RPK
Topic: 1958 Message: 1959

Paul,

The Space Data payload enclosure includes both an internal hydrogen/helium valve to dump lift as necessary to start floating -and- a ballast dumping system to offset loss of lift as necessary. Both capabilities are autonomous. The balloon attaches directly to a short pipe (part of the valve) the protrudes out the top of the enclosure. Gauge by eye, the enclosure is ~1/2cuft. I quickly searched their web pages and Goggled for a picture worth a thousand words but have not found one.

They do not chase for recovery but depend on the public to find and then return the payloads for a reward (NWS gets back ~75% of their radiosondes without a reward).

Space Data payloads weigh <=4lbs so their flights are Part-101 exempt. This is a guess but I doubt that they have any more contact with the FAA then does the NWS for twice daily radiosonde flights from 70+ CONUS locations. This is also a guess but a big operation as described for North Dakota cellular service could be to our long term advantage.

Space Data Corporation
http://www.spacedata.net/

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "kc0nsr" <seifert@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, January 23, 2006 8:30 AM
Subject: [GPSL] Balloon-based cell "towers"

I ran across this in the morning paper here in Fargo, ND, and I wanted to ask the experts here for their opinion:

http://www.in-forum.com/articles/index.cfm?id=115295§ion=News

I'm not sure directly hotlinking to the article works, but if not, it's about a company here in ND that plans to loft balloons with cell phone repeaters to 20 miles up, to provide coverage for the more remote parts of the state. They will have nine balloons in the air at any given time. It's much cheaper than putting up towers every 30 miles.

I know this isn't a new idea, but I wonder if this will actually work. Based on what I know about how ballooning works, these things will

only be at their max altitude (and cell range) for only very short times. Unless they have a way have them hang at a specific altitude, but nothing in the article mentions that, and their per-flight cost seems too low for these to be very sophisticated.

Finally, does this mean ballooning here in the northern plains just got easier, or more complicated with the extra traffic?

Paul "Waiting for spring to get our balloon up" Seifert
ConHAB
KC0NSR

1960. Re: [GPSL] Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-23 17:53:58 UTC
From: Hank Riley
Topic: 1958 Message: 1960

> Gauge by eye, the enclosure is ~1/2cuft. I quickly searched
> their web pages and Goggled for a
> picture worth a thousand words but have not found one.

Ralph,

What image were you looking at to make that estimate? Is
it one of the older magazine articles from a few years ago?

Interesting about the oil industry tracking that has already
been done by Space Data. Had anyone read about that in
general newpapers, magazines, or industry trade publications
(oil or electronics).

Hank

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

1961. Re: [GPSL] Spring Launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-23 22:01:33 UTC
From: PAUL VERHAGE
Topic: 1951 Message: 1961

Mark, I've looked at my schedule for Spring Break. I have to be at the Trinity Site on Saturday the first. CNNSP is looking at a launch, I'll see if they can launch on my first weekend.

Thanks,
Paul

>>> n9xtn@... 1/19/2006 10:34:32 am >>>
NSTAR is tentatively planning to fly from the 2006 Central Plains Severe Weather Symposium in Lincoln NE on Saturday, April 1.

- Mark

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
Date: Thursday, January 19, 2006 9:38 am
Subject: [GPSL] Spring Launch?

> Is anyone in the western half of the US planning to launch a balloon
> from 26 Mar to 1 Apr?
>
> That's my Spring Break. I usually travel and would like to do a
> launch.
>
> Paul
>
>

Yahoo! Groups Links

1962. RE: Balloon-based cell "towers" --very long reply

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-23 23:59:50 UTC
From: Steve KA5YFC
Topic: 1958 Message: 1962

First, I would think that if this were a viable alternative to putting up cell towers that there would be thousands of these flying every day. Cell companies are all for maximizing their profits.

Second, I don't know about any of you but launching a hydrogen filled balloon in 20+ mph winds is very scary. Hey it's bad enough with helium.

Third, look at the expense of this program. North Dakota has some of the harshest winter weather in the US. The winds can be and are very strong at times and contrary to what the article says, the winds may be predominant in direction at some times of the year but they do change. The man-power that you would have to have on stand-by in case you couldn't launch from your primary site plus the fact that you have to have people at the launch sites 24/7 (figuring four per site with three primary and three alternate sites but that may be a smaller or larger number) and you could easily have 24+ people working with half of them not working on the mission. They may even need more than six sites but they would have to figure out the logistics of where to launch from on each flight.

Fourth, to have this kind of coverage they would have to launch a balloon every hour. A typical flight that we try to do for altitude last between two and three hours. To have one at altitude and one descending and one ascending means one every hour. You need to have at least a two day supply of balloons and cell transceivers for each site so that would be 48 per site. You would have to have this at each of your launch sites. If there are only six sites, three in the northern part of the state and three in the southern portion, then you would need 288 on hand. This is assuming that you can get delivery of new balloons, hydrogen and cell transceivers every two days at the least. I also would not count on getting back 75% of the packages. The territory there is not well populated (this is the reason for the balloon approach in the first place) so there may or may not be someone near by to see or recover the package. Oh, and you need a few extra balloons for that occasional burst during fill or other incident. At GPSL last year, one of the packages cut away early, very early. You would need an extra balloon, transceiver and hydrogen to replace that immediately. You would have to get another one up there to replace it, NOW. Oh, and they have to launch in any kind of weather as they _have_ to provide the service.

In the article they say that they will be flying above the jet stream but that also means that they have to go through the jet stream twice during the flight. If they cut away the package when the balloon leaves the North Dakota airspace (as they say in the article) then they may need more packages as the jet stream crosses the state very frequently.

I haven't really looked at the coverage of each of these flights but as we know from Wbaltrak and experience, the transponders will cover a huge area and of course the radio signals do not stop at the international or state boarders. I have no idea how the Canadians would look at this. Or even how those in Montana, South Dakota, Iowa, Minnesota, Nebraska and Wyoming would react. And that is from one balloon launched from the center of the state to an altitude of 91k ft. (that is the current data available from Glasgow, MT as Bismarck, ND only went to 25k ft. and is the only station in North Dakota that launched a weather balloon for NWS). Peak winds were 130 mph at approximately 33k ft. Is this all autonomous operation or will they manually cut away the package? Have to hope the OBC doesn't ever fail. Interference from those other states could make it very hard to use the transcievers on the balloons. Just too many signals trying to use the limited resources. That's part of the reason that cell sites ar moving lower in heigth and more of them. Can't forget the "cone of silence" under the balloon and I'm not sure they really know how violent it is up there. We have seen the video and it's not a pretty sight.

The other thing that I have been wondering about is how they are going to provide both a T-1, or greater, uplink and downlink to the balloon. That will take one fat pipe to do that. 802.11a is only 54MB per second and a T-1 one is a lot faster than that. If this is to provide both voice and data to the remote areas of the state they will have to find a very large pipe (read bandwidth and frequencies) to get the job done.

The legal ramifications to this is tremendous. If for some reason a balloon didn't launch and someone needed to make an emergency call and couldn't get through because of it, who is going to be responsible? The carrier, the balloon company, the transceiver manufacturer if the failure occurred in mid air (we have all had that happen at one time or another). If the problem did occur in mid air, would they cut away immediately and how long would it take to get another balloon into the air and to altitude? Help us all if one of their packages comes streaming in without a parachute deploying (been there, done that, no fun).

One good thing that would come out of this would be nearly immediate wind data for the state and on a continuous basis. Of course, there would be lots of opportunities for improving Dfing techniques and testing new antennas and verifying tracking software and lots of things like that. Of course, you get local coverage up to 400 miles away from home.

I just think that there are some inherent problems with providing phone service over a balloon path. There are probably lots more to look at that I haven't even thought about. Of course, I liked the comment in the article. "I know it sounds crazy," Schafer said, "but it works in the lab."

73,
Steve

KA5YFC in Kansas

1963. > 1. Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 03:35:57 UTC
From: K. Mark Caviezel
Topic: 1963 Message: 1963

> 1. Balloon-based cell "towers"
> it's about a company here in ND that plans to loft
> balloons with cell
> phone repeaters to 20 miles up,
> I know this isn't a new idea, but I wonder if this
> will actually work.
> Based on what I know about how ballooning works,
> these things will
> only be at their max altitude (and cell range) for
> only very short
> times. Unless they have a way have them hang at a
> specific altitude,
> but nothing in the article mentions that, and their
> per-flight cost
> seems too low for these to be very sophisticated.

>>>> Paul: who knows- it could work- but I predict this will be a terrible financial bloodbath for anyone who invests, following the same pattern of Motorola led Iridium ($7B invested, sold at bankruptcy auction for $25M (as reported at http://www.sbe24.org/archive/c24jan01.asp#ten , GlobalStar ($5+ Billion dollar write-down at bankruptcy), and even my favorite, Orbcomm, with a wee $250M invested, but even the remote messaging services didn't pay back the nut to launch and maintain the constellation. The terrible economics of all these systems should have been transparent from the outset, but were brushed under the carpet with the gleeful sales pitch to investors about how great it will be to 'be connected' whether one is at the north pole, in the middle of the Gobi Desert or elsewhere. But not in a house or office building. The question that many people never seemed to ask was: how big of a market is this.... at the (1992 predicted and 2002 actual) price of $4/minute for talk time?

Funny thing is, I view the economics of satellite based comm systems to be as-now preferable to balloon based comm systems.
I've done a good amount of professional work in both fields.

Orbcomm was reported to have about 250 full salary professionals on the payroll before the financial deck of cards caved in before their first bankruptcy.

Obviously, a balloon constellation over North Dakota is a far cry from any LEO system, but here are some numbers to consider:

North Dakota population: 650,000
70000 square miles
% of persons living in cities, presumably already well served by normal cell phone service: _____
(unknown.... a very important figure though for this discussion)
median household income: $34.6k/year (1999 US Census numbers)
per capita median income: $17.8 k/year

My admittedly rough numbers for the proposed system:
total subscribers:
32500 (5% of total population- remember most of the city dwellers are presumably serviced by a normal cell phone company)
250 minutes per month per subscriber (a far cry from the 1000 minutes a month I get in Denver for $50+ taxes, but it's a rough planning number..... back in 1994 I recall 30 minutes per month cost $30/month. Times change. Sound quality was a lot better back then, though....)
8.1 million system air time minutes per month
270k system minutes per day
9 birds per day
30000 system minutes per balloon... average.

Ok, stop for a second. This is a WHOLE lot more capacity than something like a nice airborne repeater. So don't think this system is going to be remotely similar to the cross band repeaters flown with great success by amateur groups. Just because the EOSS cross band repeater is 3.3 lbs (or whatever) don't think that the proposed stratospheric digital brick will have many similarities. So this is in simple terms like an ARHAB cross band repeater with capacity for 501 hours. Ok clearly they're not going to use wide-band FM, but even with all the digital compression you could shake at it, the 'brick' will be a pretty impressive (or heavy, or expensive.. or all of the above) piece of hardware. It's entirely plausible that the system ground station(s) will have tracking antennas..... but making the link from the bird to the user's handset - using a handset remotely 'in family' with current cellular offerings will be challenging. A 1/4 wave whip on a car rooftop of course helps the situation to the tune of ~30dB..... will subscribers be motivated enough to make a hardware installation choice like that or will the

'birds' be stuck trying to make a link to low power compromise handsets with crappy antennas? Probably the latter. And the situation deteriorates when you reason through that a handheld unit in a car is most likely completely shielded by the car's roof.... allowing a nice line of sight only to the bird on the other side of the state - 20 miles up and 200 miles away. The birds right over head are not accessible to a low power, hand held unit used inside a car, which is a huge amount of the usage profile of a cell phone like system. The cell phone offeror of 1991-1993 could charge $1000 for a 1+ lb handset back in the day... the current day offeror of 'balloon sat' phones will have the 'curse' of small, light, long life phones that exist on any 'normal' cellular or wireless telephone system today as a point of comparison for any balloon sat phone hardware they may bring to market.

Ok further rough projections:

$55/balloon
$50/batteries per flight (remember, MUCH more power than ARHAB birds)
$100 launch and gas (if you reduced it to one phenomenally responsible minimum wage worker with no benefits)
$200 bounty for recovery per payload hmmm maybe that's high as they'll be raining out of the sky at the rate of 9 per day. who knows what the market price for this is..... if the bounty is too low they'll sit and rot, too high and people will be getting assaulted at the LZs..... but anyway....
9 birds per day.. actual re-use rate to be determined.

$1.3 M/year to run the airborne side....
$5 M/year to run the ground station
ok.... marketing? at least a couple million a year....

add it up and you're at $250/year per subscriber just to keep the lights on..... and that's neglecting the amortized development costs of the airborne hardware, the ground station hardware and infrastructure and the subscriber hardware. Although this is seemingly do-able in my mind, but I suspect there is much more to this than I've delineated above which will make this very significantly less attractive. The first thing that comes to mind is huge amount of trespassing cases that will clog the courts when 3 or more 'bounty hunters' decide to do a renegade recovery on the same

piece of hardware while the landowner thinks that he owns it. This WILL get to be a big issue in a short period of time. A fly back sonde will cure most of that, but adds to development cost appreciably..... So of the techno-people on this list will estimate my rough number projections as way too high, I suspect people with real telecom/wireless experience may find my projections laughably low..... but it's a cold winter night here and I couldn't help but throw some numbers against this concept.

73's to all.

- KMC ng0x Denver.

1964. Re: [GPSL] RE: Balloon-based cell "towers" --very long reply

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 03:52:01 UTC
From: John C Nordlie
Topic: 1958 Message: 1964

Hi Steve. Thanks for your thoughts. As a member of a group that's done ballooning in ND for years, I heartily concur that there are not many days of ideal weather to be had, and the winters are a pain.

> The other thing that I have been wondering about is how they are going
> to provide both a T-1, or greater, uplink and downlink to the balloon.
> That will take one fat pipe to do that. 802.11a is only 54MB per second
> and a T-1 one is a lot faster than that. If this is to provide both
> voice and data to the remote areas of the state they will have to find a
> very large pipe (read bandwidth and frequencies) to get the job done.

Have to correct you there: a commercial T-1 is only 1.54 megabits per second, so any 802.11 link running full-bore is faster. Keeping a full-bandwidth digital signal to the payload at all times is, of course, wishful thinking :).

You're absolutly right on the quality of service issues, and trying to trace 911 calls from non-GPS enabled phones would be a nightmare.

Anyway, others in our group are trying to find out more info on this. If anyone does, I'll be sure to share it with everyone.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==========

1965. > 1. Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 03:35:48 UTC
From: K. Mark Caviezel
Topic: 1963 Message: 1965

> 1. Balloon-based cell "towers"
> it's about a company here in ND that plans to loft
> balloons with cell
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$50/batteries per flight (remember, MUCH more power than ARHAB birds)
$100 launch and gas (if you reduced it to one phenomenally responsible minimum wage worker with no benefits)
$200 bounty for recovery per payload hmmm maybe that's high as they'll be raining out of the sky at the rate of 9 per day. who knows what the market price for this is..... if the bounty is too low they'll sit and rot, too high and people will be getting assaulted at the LZs..... but anyway....
9 birds per day.. actual re-use rate to be determined.

$1.3 M/year to run the airborne side....
$5 M/year to run the ground station
ok.... marketing? at least a couple million a year....

add it up and you're at $250/year per subscriber just to keep the lights on..... and that's neglecting the amortized development costs of the airborne hardware, the ground station hardware and infrastructure and the subscriber hardware. Although this is seemingly do-able in my mind, but I suspect there is much more to this than I've delineated above which will make this very significantly less attractive. The first thing that comes to mind is huge amount of trespassing cases that will clog the courts when 3 or more 'bounty hunters' decide to do a renegade recovery on the same

piece of hardware while the landowner thinks that he owns it. This WILL get to be a big issue in a short period of time. A fly back sonde will cure most of that, but adds to development cost appreciably..... So of the techno-people on this list will estimate my rough number projections as way too high, I suspect people with real telecom/wireless experience may find my projections laughably low..... but it's a cold winter night here and I couldn't help but throw some numbers against this concept.

73's to all.

- KMC ng0x Denver.

1966. Re: [GPSL] > 1. Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 05:28:54 UTC
From: Mike Manes
Topic: 1963 Message: 1966

Hi K-Mark,

Your analysis seems to assume use of short-duration flights.

The schemes I've read about rely on long-duration (months)
station-keeping stratospheric blimps using air ballast.

How would that affect your numbers?

73 de Mike W5VSI, EOSS

K. Mark Caviezel wrote:
>> 1. Balloon-based cell "towers"
>>it's about a company here in ND that plans to loft
>>balloons with cell
>>phone repeaters to 20 miles up,
>>I know this isn't a new idea, but I wonder if this
>>will actually work.
>> Based on what I know about how ballooning works,
>>these things will
>>only be at their max altitude (and cell range) for
>>only very short
>>times. Unless they have a way have them hang at a
>>specific altitude,
>>but nothing in the article mentions that, and their
>>per-flight cost
>>seems too low for these to be very sophisticated.
>
>
>>>>>Paul: who knows- it could work- but I predict
>
> this will be a terrible financial bloodbath for anyone
> who invests, following the same pattern of Motorola
> led Iridium ($7B invested, sold at bankruptcy auction
> for $25M (as reported at
> http://www.sbe24.org/archive/c24jan01.asp#ten ,
> GlobalStar ($5+ Billion dollar write-down at
> bankruptcy), and even my favorite, Orbcomm, with a wee
> $250M invested, but even the remote messaging services
> didn't pay back the nut to launch and maintain the
> constellation. The terrible economics of all these
> systems should have been transparent from the outset,
> but were brushed under the carpet with the gleeful
> sales pitch to investors about how great it will be to
> 'be connected' whether one is at the north pole, in
> the middle of the Gobi Desert or elsewhere. But not

> in a house or office building. The question that many
> people never seemed to ask was: how big of a market
> is this.... at the (1992 predicted and 2002 actual)
> price of $4/minute for talk time?
>
> Funny thing is, I view the economics of satellite
> based comm systems to be as-now preferable to balloon
> based comm systems.
> I've done a good amount of professional work in both
> fields.
>
> Orbcomm was reported to have about 250 full salary
> professionals on the payroll before the financial deck
> of cards caved in before their first bankruptcy.
>
> Obviously, a balloon constellation over North Dakota
> is a far cry from any LEO system, but here are some
> numbers to consider:
>
> North Dakota population: 650,000
> 70000 square miles
> % of persons living in cities, presumably already well
> served by normal cell phone service: _____________
> (unknown.... a very important figure though for this
> discussion)
> median household income: $34.6k/year (1999 US Census
> numbers)
> per capita median income: $17.8 k/year
>
> My admittedly rough numbers for the proposed system:
> total subscribers:
> 32500 (5% of total population- remember most of the
> city dwellers are presumably serviced by a normal cell
> phone company)
> 250 minutes per month per subscriber (a far cry from
> the 1000 minutes a month I get in Denver for $50+
> taxes, but it's a rough planning number..... back in
> 1994 I recall 30 minutes per month cost $30/month.
> Times change. Sound quality was a lot better back
> then, though....)
> 8.1 million system air time minutes per month
> 270k system minutes per day
> 9 birds per day
> 30000 system minutes per balloon... average.
>
> Ok, stop for a second. This is a WHOLE lot more
> capacity than something like a nice airborne repeater.
> So don't think this system is going to be remotely
> similar to the cross band repeaters flown with great
> success by amateur groups. Just because the EOSS

> cross band repeater is 3.3 lbs (or whatever) don't
> think that the proposed stratospheric digital brick
> will have many similarities. So this is in simple
> terms like an ARHAB cross band repeater with capacity
> for 501 hours. Ok clearly they're not going to use
> wide-band FM, but even with all the digital
> compression you could shake at it, the 'brick' will be
> a pretty impressive (or heavy, or expensive.. or all
> of the above) piece of hardware. It's entirely
> plausible that the system ground station(s) will have
> tracking antennas..... but making the link from the
> bird to the user's handset - using a handset remotely
> 'in family' with current cellular offerings will be
> challenging. A 1/4 wave whip on a car rooftop of
> course helps the situation to the tune of ~30dB.....
> will subscribers be motivated enough to make a
> hardware installation choice like that or will the
> 'birds' be stuck trying to make a link to low power
> compromise handsets with crappy antennas? Probably
> the latter. And the situation deteriorates when you
> reason through that a handheld unit in a car is most
> likely completely shielded by the car's roof....
> allowing a nice line of sight only to the bird on the
> other side of the state - 20 miles up and 200 miles
> away. The birds right over head are not accessible
> to a low power, hand held unit used inside a car,
> which is a huge amount of the usage profile of a cell
> phone like system. The cell phone offeror of
> 1991-1993 could charge $1000 for a 1+ lb handset back
> in the day... the current day offeror of 'balloon sat'
> phones will have the 'curse' of small, light, long
> life phones that exist on any 'normal' cellular or
> wireless telephone system today as a point of
> comparison for any balloon sat phone hardware they may
> bring to market.
>
> Ok further rough projections:
>
> $55/balloon
> $50/batteries per flight (remember, MUCH more power
> than ARHAB birds)
> $100 launch and gas (if you reduced it to one
> phenomenally responsible minimum wage worker with no
> benefits)
> $200 bounty for recovery per payload hmmm maybe
> that's high as they'll be raining out of the sky at
> the rate of 9 per day. who knows what the market
> price for this is..... if the bounty is too low
> they'll sit and rot, too high and people will be
> getting assaulted at the LZs..... but anyway....

> 9 birds per day.. actual re-use rate to be determined.
>
> $1.3 M/year to run the airborne side....
> $5 M/year to run the ground station
> ok.... marketing? at least a couple million a
> year....
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> add it up and you're at $250/year per subscriber just
> to keep the lights on..... and that's neglecting the
> amortized development costs of the airborne hardware,
> the ground station hardware and infrastructure and the
> subscriber hardware. Although this is seemingly
> do-able in my mind, but I suspect there is much more
> to this than I've delineated above which will make
> this very significantly less attractive. The first
> thing that comes to mind is huge amount of trespassing
> cases that will clog the courts when 3 or more 'bounty
> hunters' decide to do a renegade recovery on the same
> piece of hardware while the landowner thinks that he
> owns it. This WILL get to be a big issue in a short
> period of time. A fly back sonde will cure most of
> that, but adds to development cost appreciably.....
> So of the techno-people on this list will estimate my
> rough number projections as way too high, I suspect
> people with real telecom/wireless experience may find
> my projections laughably low..... but it's a cold
> winter night here and I couldn't help but throw some
> numbers against this concept.
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> 73's to all.
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> - KMC ng0x Denver.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1967. Re: [GPSL] Spring Launch?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 12:03:12 UTC
From: Roger Hammond
Topic: 1951 Message: 1967
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

1968. Re: [GPSL] Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 12:48:26 UTC
From: Ralph Wallio, W0RPK
Topic: 1958 Message: 1968

Hank,

The image that is burned into my memory is of a small payload enclosure being held up by an engineer which included the attached neck and lower portion of a latex sounding balloon (as if ready for launch). As I recall the photo was prominently displayed in Space Data's web pages of a couple of years ago.

Space Data Corporation LLC also uses the corporate names, Space Data Research LLC and Space Data Spectrum Holdings LLC. They are FCC licensed as a common carrier to provide mobile services and hold 255 FCC licenses the vast majority of which are for 900MHz PCS narrow band and a few for 931MHz paging. These 10yr licenses expire 2013-2015.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

1969. Balloon Article

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 14:55:10 UTC
From: PAUL VERHAGE
Topic: 1969 Message: 1969

The website Universe Today asks for pictures from amateurs, so I sent them one of my balloon pictures. They wrote up an article on it. You can read it at, http://www.universetoday.com/.

Paul

1970. Re: Balloon Article

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 16:50:04 UTC
From: Hank
Topic: 1969 Message: 1970

>You can read it at http://www.universetoday.com/.

The specific url is:

http://www.universetoday.com/am/publish/satellites_budget.html

1971. Re: [GPSL] Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 05:11:36 UTC
From: Mike Manes
Topic: 1958 Message: 1971

Hi Paul,

Yeah, it's theoretically do-able, and in fact, DoD & HSA are looking
at similar stuff for high-altitude radar and comm platforms.

The scheme is to stay above 60,000 ft, where the radio horizon is about
350 miles out, and which is above FAA jurisdiction, so the only FAA
issues are in the ascent and final descent phases.

The problems are long duration station keeping.

Long duration means not venting any lift gas, so the balloon envelopes
are impermeable and not subject to UV degradation (i.e. plastic vice
latex). Since the lift gas density and thus lifting capacity varies
with solar heating, maintaining altitude requires unloading ballast
at night. But if the supply of ballast is limited, then so is the
flight duration. The solution is to use air as ballast: just suck in
what's all around you and compress it into a 2nd rigid balloon; that
will make it denser than ambient air and thus will increase the system
mass. As night falls, just vent the air bag.

Geoidal station keeping requires continuously flying upwind.
Fortunately, stratospheric winds are generally less than 20 kt, so
it's not a huge power hog. A couple of electric motor driven props
can manage it, especially if the envelope is streamlined along the
horizontal axis ... think blimp.

Now, all that air-compressing and prop turning requires a contiuous
source of electrical power -- not to mention the power required by
the payload itself. Solar panels covering the top of the envelope, along
with rechareable batteries like Li-ion, are what current schemes
envision. There are no cloudy days in the stratosphere.

Any ARHAB groups out there wanna give it a shot, eh??

73 de Mike W5VSI, EOSS

kc0nsr wrote:
> I ran across this in the morning paper here in Fargo, ND, and I wanted
> to ask the experts here for their opinion:
>
> http://www.in-forum.com/articles/index.cfm?id=115295§ion=News
>
> I'm not sure directly hotlinking to the article works, but if not,
> it's about a company here in ND that plans to loft balloons with cell
> phone repeaters to 20 miles up, to provide coverage for the more
> remote parts of the state. They will have nine balloons in the air at

> any given time. It's much cheaper than putting up towers every 30 miles.
>
> I know this isn't a new idea, but I wonder if this will actually work.
> Based on what I know about how ballooning works, these things will
> only be at their max altitude (and cell range) for only very short
> times. Unless they have a way have them hang at a specific altitude,
> but nothing in the article mentions that, and their per-flight cost
> seems too low for these to be very sophisticated.
>
> Finally, does this mean ballooning here in the northern plains just
> got easier, or more complicated with the extra traffic?
>
> Paul "Waiting for spring to get our balloon up" Seifert
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1972. . RE: Balloon-based cell "towers" --

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-24 22:58:37 UTC
From: K. Mark Caviezel
Topic: 1972 Message: 1972

(from Mike M)
> Your analysis seems to assume use of short-duration
> flights.
yeap. that is what the article mentioned.

> The schemes I've read about rely on long-duration
> (months)
> station-keeping stratospheric blimps using air
> ballast.
>
> How would that affect your numbers?

(from Mark Caviezel):
>>>>>>>>>>>> I know a good amount about this, having served as principle investigator of a 6 month MDA/Army funded study for exactly this technology a couple years back. The small group that I worked with initially proposed a disposable balloon constellation- not dissimilar to what is envisioned for the North Dakota network- was awarded the contract, then was immediately re-tasked to study high altitude blimp type platforms. I entered into that kicking and screaming, but after a good amount of analysis warmed up to the concept considerably. The MDA technical contract monitor directed us to design towards a 40 naut continuous propulsive capability, 65k feet cruising altitude and 4000-10000 lb payloads with 12 to 20kWe power consumption 24/7. So those heavy, power-thirsty military payloads are an order of magnitude worse than a nice cell phone/wireless type comm relay package I imagine. Anyway, the station-keeping HAA appears to be do-able with off the shelf technologies. We focused on OTS hardware like thin film solar cells, Lithium-Ion batteries and an all-inflated architecture. It turns out that that was a terrible mistake as the Army and MDA at the time had been sold on fuel cells as an enabling technology, in fact the vast bulk of the follow-on contracts went to Lock-Mart allied firms that were pursuing fuel cell technology. So whereas my small team and I lost out, Lock-Mart has pulled in $40M and $149M contracts to further their vision of HAA. Most recent press releases mention prototype delivery and flight in 2009. So with almost $200 million spent or in the pipe to be spent in the next couple years, (I think

there is a Augustine's Law that predicts this will double or more...) I'd say the economics of a Lock Mart-esque HAA appear marginal at best, if one had a traditional business model where the development cost was amortized and paid down as revenues developed with an operational system. BUT, being a DoD-funded development, the technology development costs are "free" and it's possible that non-mil system could come from this.

However, a civilianized spin off might do much better.

These guys:
http://www.sanswire.com
have built real hardware, and have done a couple test flights, undoubtedly to altitudes far shy of the 70k foot stated max ceiling as two test flights were conducted in a day. I'll reserve my prognostications on the stratellite system until after they've done a 5-10 day station keeping demonstration flight.

So we'll see where it all ends up.

The semi-disposable balloon constellation can be up and running with modest development and capitalization, self propelled blimps will require much more development, infrastructure and capitalization.

For now the smart money is investing in the steel cell phone towers that are welded together and stuck into the ground.

- KMC

1973. Re: EOSS-102 back on docket for UKy Big Blue 4

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-25 03:50:28 UTC
From: Mike Manes
Topic: 1950 Message: 1973

Hi Jamey,

Well, it's clear that you guys were giving it your best shot. Sorry it couldn't work for this April 8th. Keep up the good work, and glad to hear that Suzanne's not lost her spunk!

Be sure to let us know a couple of months in advance re your sked and payload particulars. Fall gets pretty slow for EOSS, compared to the summer rush, so I don't expect that we'll encounter any scheduling issues. And if you work towards late fall, the upper westerlies will prevail, which means you most likely can go out of Gene Fatton's place near Windsor.

For Ralph and Rick: pls amend your announcements accordingly, decrementing EOSS flight numbers starting with the 22 April Gateways/ DemoSat two-fer heavies out of Windsor, now EOSS-102.

We're still on track for EOSS-101 Midwinter's from Windsor on 18 April. We'll be flight qualifying two new APRS beacons, a wireless Balloon LAN and (I hope!) a fast burst-sensing balloon release device which I hope will ameliorate the Dreaded Post Burst Chaos (DPBC).

73 de Mike W5VSI, EOSS

Jamey Jacob wrote:
> Mike,
>
> Sorry to keep playing with your schedule, but we are now off for Spring.
> We have decided that the next best option for our science is to
> demonstrate low altitude flight from a flight string - this will allow
> us to proceed to the final goal of flying at altitude. We will be using
> a hot air balloon for this in KY in April. Assuming things go well, we
> will contact you for a Fall or Spring '07 slot for the next high
> altitude flight.
>
> Again, my apologies. As always, thanks for your help.
>
> jamey
>
> PS - Suzanne is doing well and sends her regards.
>
> ----
> Jamey D. Jacob, PhD, PE
> Associate Professor, Mechanical Engineering
> University of Kentucky, Lexington, KY 40506
> 859-257-6336, x80665

> http://www.engr.uky.edu/~jdjacob/
>
> On Jan 13, 2006, at 11:31 PM, Mike Manes wrote:
>
>> Hi Ralph,
>>
>> EOSS-102 is back on as EOSS-102, now resked for 8/9 April out of
>> Windsor CO. APRs TBD-11 on 144.34, DF/cutter on 147.555 and ATV on
>> 426.25. Balloon size and payload particulars pending.
>>
>> 73 de Mike W5VSI
>> --
>> Mike Manes manes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so." A.
>> Einstein
>>
>>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1974. Re: [EOSS] Re: [GPSL] Balloon-based cell "towers"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-25 04:16:42 UTC
From: Mike Manes
Topic: 1974 Message: 1974

Hi Mike,

I met a couple of your colleagues at the last EOSS meeting. Names
were Eric and Roger, if I can read my notes...

Those tethered balloons need a Waiver from the FAA or must fly in
a MOA to prevent acting like barrage balloons - if they go over
200 ft AGL, that is. Not that one could erect a real 200 ft tower
nearly as fast in a tactical situation, tho!

I think the ones that are being considered for comm'l purposes
are unmanned free balloons, using air ballast and propulsion for
long-duration station-keeping above 60K'.

73 de Mike W5VSI, EOSS

Bartmess, Michael C. wrote:
> The Air Force is also working some very large, log duration, blimp like
> systems that would be tethered with a fiber optic cable (tethered
> aerostats). I talked to a group from Johns Hopkins that is working on
> that one and have some pamphlets here somewhere. I think they've
> already flown a demonstration of that one. It says payload from 50 lb to
> more than 2000 lbs That's AFRL/VS.
>
>
>
> _____
>
> Michael Bartmess
>
> _____
>
> From: EOSS@yahoogroups.com [mailto:EOSS@yahoogroups.com] On Behalf Of
> Mike Manes
> Sent: Monday, January 23, 2006 10:12 PM
> To: GPSL@yahoogroups.com; EOSS membership reflector
> Subject: [EOSS] Re: [GPSL] Balloon-based cell "towers"
>
>
>
> Hi Paul,
>
> Yeah, it's theoretically do-able, and in fact, DoD & HSA are looking
> at similar stuff for high-altitude radar and comm platforms.
>
> The scheme is to stay above 60,000 ft, where the radio horizon is about

> 350 miles out, and which is above FAA jurisdiction, so the only FAA
> issues are in the ascent and final descent phases.
>
> The problems are long duration station keeping.
>
> Long duration means not venting any lift gas, so the balloon envelopes
> are impermeable and not subject to UV degradation (i.e. plastic vice
> latex). Since the lift gas density and thus lifting capacity varies
> with solar heating, maintaining altitude requires unloading ballast
> at night. But if the supply of ballast is limited, then so is the
> flight duration. The solution is to use air as ballast: just suck in
> what's all around you and compress it into a 2nd rigid balloon; that
> will make it denser than ambient air and thus will increase the system
> mass. As night falls, just vent the air bag.
>
> Geoidal station keeping requires continuously flying upwind.
> Fortunately, stratospheric winds are generally less than 20 kt, so
> it's not a huge power hog. A couple of electric motor driven props
> can manage it, especially if the envelope is streamlined along the
> horizontal axis ... think blimp.
>
> Now, all that air-compressing and prop turning requires a contiuous
> source of electrical power -- not to mention the power required by
> the payload itself. Solar panels covering the top of the envelope, along
> with rechareable batteries like Li-ion, are what current schemes
> envision. There are no cloudy days in the stratosphere.
>
> Any ARHAB groups out there wanna give it a shot, eh??
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> 73 de Mike W5VSI, EOSS
>
>
> kc0nsr wrote:
>
>>I ran across this in the morning paper here in Fargo, ND, and I wanted
>>to ask the experts here for their opinion:
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>>http://www.in-forum.com/articles/index.cfm?id=115295§ion=News
>>
>>I'm not sure directly hotlinking to the article works, but if not,
>>it's about a company here in ND that plans to loft balloons with cell
>>phone repeaters to 20 miles up, to provide coverage for the more
>>remote parts of the state. They will have nine balloons in the air at
>>any given time. It's much cheaper than putting up towers every 30
>
> miles.
>
>>I know this isn't a new idea, but I wonder if this will actually work.
>> Based on what I know about how ballooning works, these things will
>>only be at their max altitude (and cell range) for only very short

>>times. Unless they have a way have them hang at a specific altitude,
>>but nothing in the article mentions that, and their per-flight cost
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>>Finally, does this mean ballooning here in the northern plains just
>>got easier, or more complicated with the extra traffic?
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>>Paul "Waiting for spring to get our balloon up" Seifert
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1975. Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-26 20:39:03 UTC
From: Gene Harlan
Topic: 1975 Message: 1975

I sent out message to see what kind of interest there is in the Rockford, Illinois area for a balloon launch. This was instigated due to the fact that my grandson's teacher thought it would be a neat thing to do (once I suggested it to her!).

My questions on these groups is: Since there are many people that read these and not all are close to and involved in the groups with the messages, there just might be those around Rockford that would be willing to join us. If so, let me know.

We have gotten interest from the Wisconsin group to help us and a few others in the last couple of days. All details are yet to be decided.

Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

How many of this group (ATV group) would be interested in a helium balloon launch? And how many others not in this group could we get?

I threw out the idea to a Christian Life science teacher, and I "think" she liked the idea (see below - and see the article I pointed to).

We would need a variety of talents to do the launch. Some of the expertise we could pull in from Wisconsin from a group that has already done many launches. And I also copied this to Kent from Schaumburg (who I met at the Wheaton hamfest Sunday) who is interested. He may be able to round up people as well.

What would we fly? I would think GPS with packet radio (so we can find it!), ATV, still pictures - either digital or film - taken every so many seconds (need a programmer), and manybe more.

Funds would need to be raised, possibly $1000 for the package, which we would hope to re-use for many launches. We have done that before and can do it again.

We will need those that can chase using APRS and find the balloon when it comes down. Flights usually last from 2-3 hours.

So, what do you say. How many are interested? Use Reply All so others can see your comments.

Thanks.

Gene - WB9MMM

----- Original Message -----
Sent: Tuesday, January 24, 2006 12:01 PM
Subject: RE: [GPSL] Re: Balloon Article

WAY COOL!!!!

I WILL PASS THIS ONTO MR. FRYKHOLM AND SEE ABOUT THE FUNDING...
WE MAYBE ABLE TO DO A "JEANS" DAY FOR A DOLLAR TO RAISE THE MONEY :-)

THANKS,

CHRISTY

-----Original Message-----
From: Gene Harlan [mailto:atvq@...]

Subject: Fw: [GPSL] Re: Balloon Article

Christy,

Not to get too many things going at once, but check out this article. We have a few hams that might be interested in doing something like this locally. Might need a "little" funding from the school for the expendable
supplies. A group in Indianapolis used to do this and the school would pay
around $200 for the helium and balloon for a flight. The equipment was otherwise supplied by hams. Funds could be supplied by the parents of the
students involved?

You have to work very closely with the FAA and notify them of details of the
flight. I have checked, as I was afraid that being close to O'Hare they might say no, but they said OK as long as we followed the rules.

The specific url is:

http://www.universetoday.com/am/publish/satellites_budget.html

Just something else to have fun with!

Gene Harlan

1976. Re: [GPSL] Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-26 20:58:35 UTC
From: PAUL VERHAGE
Topic: 1975 Message: 1976

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Paul

>>> atvq@... 1/26/2006 1:39 pm >>>
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Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
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----- Original Message -----
Sent: Tuesday, January 24, 2006 12:01 PM
Subject: RE: [GPSL] Re: Balloon Article

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THANKS,

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-----Original Message-----
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The specific url is:

http://www.universetoday.com/am/publish/satellites_budget.html

Just something else to have fun with!

Gene Harlan

Yahoo! Groups Links

1977. Re: [GPSL] Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-26 22:14:44 UTC
From: Gene Harlan
Topic: 1975 Message: 1977

Hummm.... Had not heard of that award!

Gene - WB9MMM

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, January 26, 2006 2:58 PM
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Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-26 22:43:56 UTC
From: PAUL VERHAGE
Topic: 1975 Message: 1978

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Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-26 23:44:08 UTC
From: Mark Conner
Topic: 1975 Message: 1979

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Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-26 23:57:05 UTC
From: Don KA0JLF
Topic: 1975 Message: 1980

I have video of our last flight traveling along the ground in MO. I think we made about 10 mph on the ground (not bad with about a 15 mph wind - lots of friction). ;-) Nick's poor capsule, won't be the same.

Don

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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

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Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 05:23:59 UTC
From: Mike Manes
Topic: 1975 Message: 1981

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from all the above, plus NE several times.

73 de Mike W5VSI

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> I WILL PASS THIS ONTO MR. FRYKHOLM AND SEE ABOUT THE FUNDING...
> WE MAYBE ABLE TO DO A "JEANS" DAY FOR A DOLLAR TO RAISE THE MONEY :-)
>
> THANKS,
>
> CHRISTY
>
> -----Original Message-----
> From: Gene Harlan [mailto:atvq@...]
>
> Subject: Fw: [GPSL] Re: Balloon Article

>
> Christy,
>
> Not to get too many things going at once, but check out this article.
> We
> have a few hams that might be interested in doing something like this
> locally. Might need a "little" funding from the school for the
> expendable
> supplies. A group in Indianapolis used to do this and the school would
> pay
> around $200 for the helium and balloon for a flight. The equipment was
> otherwise supplied by hams. Funds could be supplied by the parents of
> the
> students involved?
>
> You have to work very closely with the FAA and notify them of details
> of
> the
> flight. I have checked, as I was afraid that being close to O'Hare
> they
> might say no, but they said OK as long as we followed the rules.
>
> The specific url is:
>
> http://www.universetoday.com/am/publish/satellites_budget.html
>
> Just something else to have fun with!
>
> Gene Harlan
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1982. Launched All States Award?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 11:36:51 UTC
From: wb8elk@aol.com
Topic: 1982 Message: 1982

Hi Paul,

Launched All States award?...I wasn't aware of that one but it sure sounds like a good one....here's my list so far since 1987:

OH,IN,IL,CO,NH,ME,CT,NC,AL,GA,TN,CA,UT,KS,IA,TX,WY

Only 33 to go !!!

73s de Bill WB8ELK

1983. Re: [GPSL] Launched All States Award?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 14:32:25 UTC
From: PAUL VERHAGE
Topic: 1982 Message: 1983

Aw gee, I'm only KS,ID,OR,WA,CO,IA

Just 44 to go.

My Recovered All States are KS,MO,IA,NE,ID,OR,CO

So just 43 to go. I think that Hawaii one is going to be a tuffy!!

Paul

>>> wb8elk@... 1/27/2006 4:36 am >>>
Hi Paul,

Launched All States award?...I wasn't aware of that one but it sure
sounds
like a good one....here's my list so far since 1987:

OH,IN,IL,CO,NH,ME,CT,NC,AL,GA,TN,CA,UT,KS,IA,TX,WY

Only 33 to go !!!

73s de Bill WB8ELK

1984. Re: [GPSL] Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 14:44:42 UTC
From: PAUL VERHAGE
Topic: 1975 Message: 1984

I would be interested in starting this award. How does getting a certificate for every five or ten states sound?

Paul

>>> manes@... 1/26/2006 10:23 pm >>>
Interesting. EOSS has launched from CO, WY, KS and IA and has recovered
from all the above, plus NE several times.

73 de Mike W5VSI

Mark Conner wrote:
> Our 05-B flight last year had the number of states landed in exceed the
> number of states launched in, so you should keep track of both.
>
> Can't say 'recovered' yet because I still have not followed up again with
> Cargill to see who up there has it.
>
> - Mark
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL
> VERHAGE
> Sent: Thursday, January 26, 2006 16:44
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Rockford, Illininois
>
> Um, well,.... I did make it up......
> ;)
>
> But wait until you hear about the Recovered All States award!!
>
> Paul
>
>
>>>>atvq@... 1/26/2006 3:14 pm >>>
>
> Hummm.... Had not heard of that award!
>
> Gene - WB9MMM
>
> ----- Original Message -----

> From: "PAUL VERHAGE" <paul.verhage@...>
> To: <GPSL@yahoogroups.com>
> Sent: Thursday, January 26, 2006 2:58 PM
> Subject: Re: [GPSL] Rockford, Illininois
>
>
> I'm always interested in traveling to launch a near spacecraft. It
> would
> add another state for my Launched All States award.
>
> Paul
>
>
>>>>atvq@... 1/26/2006 1:39 pm >>>
>
> I sent out message to see what kind of interest there is in the
> Rockford,
> Illinois area for a balloon launch. This was instigated due to the
> fact
> that
> my grandson's teacher thought it would be a neat thing to do (once I
> suggested it to her!).
>
> My questions on these groups is: Since there are many people that
read
> these
> and not all are close to and involved in the groups with the
messages,
> there
> just might be those around Rockford that would be willing to join
us.
> If so,
> let me know.
>
> We have gotten interest from the Wisconsin group to help us and a
few
> others
> in the last couple of days. All details are yet to be decided.
>
> Thanks.
>
> Gene Harlan - WB9MMM
> NEW - Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> ATVQ@...
> 815-398-2683 - voice
> 815-398-2688 - fax
> http://www.hampubs.com
> ----------
>

>
>
> How many of this group (ATV group) would be interested in a helium
> balloon
> launch? And how many others not in this group could we get?
>
> I threw out the idea to a Christian Life science teacher, and I
> "think"
> she
> liked the idea (see below - and see the article I pointed to).
>
> We would need a variety of talents to do the launch. Some of the
> expertise
> we could pull in from Wisconsin from a group that has already done
> many
> launches. And I also copied this to Kent from Schaumburg (who I met
at
> the
> Wheaton hamfest Sunday) who is interested. He may be able to round
up
> people
> as well.
>
> What would we fly? I would think GPS with packet radio (so we can
find
> it!),
> ATV, still pictures - either digital or film - taken every so many
> seconds
> (need a programmer), and manybe more.
>
> Funds would need to be raised, possibly $1000 for the package, which
> we
> would hope to re-use for many launches. We have done that before and
> can do
> it again.
>
> We will need those that can chase using APRS and find the balloon
when
> it
> comes down. Flights usually last from 2-3 hours.
>
> So, what do you say. How many are interested? Use Reply All so
others
> can
> see your comments.
>
> Thanks.
>
> Gene - WB9MMM
>

> ----- Original Message -----
> Sent: Tuesday, January 24, 2006 12:01 PM
> Subject: RE: [GPSL] Re: Balloon Article
>
>
> WAY COOL!!!!
>
> I WILL PASS THIS ONTO MR. FRYKHOLM AND SEE ABOUT THE FUNDING...
> WE MAYBE ABLE TO DO A "JEANS" DAY FOR A DOLLAR TO RAISE THE MONEY
:-)
>
> THANKS,
>
> CHRISTY
>
> -----Original Message-----
> From: Gene Harlan [mailto:atvq@...]
>
> Subject: Fw: [GPSL] Re: Balloon Article
>
> Christy,
>
> Not to get too many things going at once, but check out this
article.
> We
> have a few hams that might be interested in doing something like
this
> locally. Might need a "little" funding from the school for the
> expendable
> supplies. A group in Indianapolis used to do this and the school
would
> pay
> around $200 for the helium and balloon for a flight. The equipment
was
> otherwise supplied by hams. Funds could be supplied by the parents
of
> the
> students involved?
>
> You have to work very closely with the FAA and notify them of
details
> of
> the
> flight. I have checked, as I was afraid that being close to O'Hare
> they
> might say no, but they said OK as long as we followed the rules.
>
> The specific url is:
>
> http://www.universetoday.com/am/publish/satellites_budget.html

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> Just something else to have fun with!
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> Gene Harlan
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

Yahoo! Groups Links

1985. Re: Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 16:29:14 UTC
From: Dave
Topic: 1975 Message: 1985

--- In GPSL@yahoogroups.com, "Gene Harlan" <atvq@h...> wrote:
>
> I sent out message to see what kind of interest there is in
> the Rockford, Illinois area for a balloon launch. This was
> instigated due to the fact that my grandson's teacher thought
> it would be a neat thing to do (once I suggested it to her!).

I don't know that Rockford is a real good place to perform a balloon launch due to the prevailing winds and that rather huge bit of water to the east ("splash...glugglugglug....oh oh"). Then, again, if you waterproof the payload well enough, and have a water based recovery team, it might be acceptable. Or, if you choose to launch when the winds (at altitude as well as near ground level) are blowing in another direction. Or, if you have an expendable payload.

> My questions on these groups is: Since there are many people
> that read these and not all are close to and involved in the
> groups with the messages, there just might be those around
> Rockford that would be willing to join us. If so, let me know.

I might be willing to drive up (from Lexington, KY), if it's at a time when I'm free. I don't have much experience with launches, although I did visit one of the Windtrax group's launch from Indianapolis, IN about 10 years ago.

> We have gotten interest from the Wisconsin group to help us and
> a few others in the last couple of days. All details are yet
> to be decided.

Please keep us advised. Even if I can't make it up there to help out (as a "warm body"), then I'll listen for the signal from Kentucky.

> Thanks.
>
> Gene Harlan - WB9MMM

Dave
WA4QAL

1986. Re: [GPSL] Re: Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 17:36:38 UTC
From: Gene Harlan
Topic: 1975 Message: 1986

Dave,

Great. I will keep you on the list to keep informed.

Just to let you know, Rockford, IL is 5 more hours from Indianapolis.

And, you are right, we do not want to go into Lake Michigan! There are many things that have to happen and get checked out before doing this. We may decide to drive West and North for the launch so that it ends up more in this area. There are some Wisconsin balloon-a-tics that are offering assistance. And that is good news!

Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: "Dave" <wa4qal@...>
To: <GPSL@yahoogroups.com>
Sent: Friday, January 27, 2006 10:29 AM
Subject: [GPSL] Re: Rockford, Illininois

--- In GPSL@yahoogroups.com, "Gene Harlan" <atvq@h...> wrote:
>
> I sent out message to see what kind of interest there is in
> the Rockford, Illinois area for a balloon launch. This was
> instigated due to the fact that my grandson's teacher thought
> it would be a neat thing to do (once I suggested it to her!).

I don't know that Rockford is a real good place to perform a balloon launch due to the prevailing winds and that rather huge bit of water to the east ("splash...gluggluglug....oh oh"). Then, again, if you waterproof the payload well enough, and have a water based recovery team, it might be acceptable. Or, if you choose to launch when the winds (at altitude as well as near ground level) are blowing in another direction. Or, if you have an expendable payload.

> My questions on these groups is: Since there are many people
> that read these and not all are close to and involved in the
> groups with the messages, there just might be those around

> Rockford that would be willing to join us. If so, let me know.

I might be willing to drive up (from Lexington, KY), if it's
at a time when I'm free. I don't have much experience with
launches, although I did visit one of the Windtrax group's
launch from Indianapolis, IN about 10 years ago.

> We have gotten interest from the Wisconsin group to help us and
> a few others in the last couple of days. All details are yet
> to be decided.

Please keep us advised. Even if I can't make it up there to help
out (as a "warm body"), then I'll listen for the signal from
Kentucky.

> Thanks.
>
> Gene Harlan - WB9MMM

Dave
WA4QAL

Yahoo! Groups Links

1987. STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 22:14:49 UTC
From: Gene Harlan
Topic: 1987 Message: 1987
Attachments: 1 described; binary payloads are missing from this source WARC

Now this is the way to get the balloons back. While it might be a little pricey since it is made for the government, they claim that this parachute will deliver a payload weighing from 50 to 100 lbs. from an altitude of up to 35,000 feet, to within 75 feet of the target. I saw this in Machine Design, January 12, 2006.

So, wouldn't it be nice to just bring our launches right back to us!

http://www.stara.biz/

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

1988. Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-27 23:25:13 UTC
From: Don KA0JLF
Topic: 1987 Message: 1988

Looks like this is a UAV. The our local FAA, not sure
about the rest, don't like UAVs. It's a 9/11 thing.

73
Don

--- Gene Harlan <atvq@...> wrote:

> Now this is the way to get the balloons back. While
> it might be a little
> pricey since it is made for the government, they
> claim that this parachute
> will deliver a payload weighing from 50 to 100 lbs.
> from an altitude of up
> to 35,000 feet, to within 75 feet of the target. I
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> Design, January 12, 2006.
>
> So, wouldn't it be nice to just bring our launches
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>
> http://www.stara.biz/
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> Gene Harlan - WB9MMM
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> http://www.hampubs.com
>

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1989. Re: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 03:11:47 UTC
From: Gene Harlan
Topic: 1989 Message: 1989

Interesting! Not something I had thought about.

Gene - WB9MMM

----- Original Message -----
From: "Don KA0JLF" <ka0jlf@...>
To: <GPSL@yahoogroups.com>; "TVNSP" <tvnsp@yahoogroups.com>; "EOSS balloons" <EOSS@yahoogroups.com>; "BATS mailing list" <BATS@...>; "Ballooning" <Ballooning@yahoogroups.com>; "ORB Oklahoma balloons" <oklahoma_research_balloons@yahoogroups.com>
Sent: Friday, January 27, 2006 5:25 PM
Subject: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Looks like this is a UAV. The our local FAA, not sure
about the rest, don't like UAVs. It's a 9/11 thing.

73
Don

--- Gene Harlan <atvq@...> wrote:

> Now this is the way to get the balloons back. While
> it might be a little
> pricey since it is made for the government, they
> claim that this parachute
> will deliver a payload weighing from 50 to 100 lbs.
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To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

1990. Re: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 05:30:31 UTC
From: Don KA0JLF
Topic: 1989 Message: 1990

I know some friends who's UAV projects were shut down.
I haven't heard or check on them in a couple of years.
Worth checking. Thanks Gene, I'll try to check on 'em.

73
Don

--- Gene Harlan <atvq@...> wrote:

> Interesting! Not something I had thought about.
>
> Gene - WB9MMM
>
> ----- Original Message -----
> From: "Don KA0JLF" <ka0jlf@...>
> To: <GPSL@yahoogroups.com>; "TVNSP"
> <tvnsp@yahoogroups.com>; "EOSS balloons"
> <EOSS@yahoogroups.com>; "BATS mailing list"
> <BATS@...>;
> "Ballooning" <Ballooning@yahoogroups.com>; "ORB
> Oklahoma balloons"
> <oklahoma_research_balloons@yahoogroups.com>
> Sent: Friday, January 27, 2006 5:25 PM
> Subject: [Ballooning] Re: [GPSL] STARA - Miniature
> Guided Parachute Sensor
> Delivery from UAV
>
>
> Looks like this is a UAV. The our local FAA, not
> sure
> about the rest, don't like UAVs. It's a 9/11 thing.
>
> 73
> Don
>
> --- Gene Harlan <atvq@...> wrote:
>
> > Now this is the way to get the balloons back.
> While
> > it might be a little
> > pricey since it is made for the government, they
> > claim that this parachute
> > will deliver a payload weighing from 50 to 100
> lbs.

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> Tired of spam? Yahoo! Mail has the best spam
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> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify
> your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com

>
>
> Regards,
>
> Moderator, Ballooning
>
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> Yahoo! Groups Links
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http://mail.yahoo.com

1991. Re: [Ballooning] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 07:10:49 UTC
From: Mike Manes
Topic: 1987 Message: 1991

The Stara site had a link to the Cuban fabric site, which has
a new parachute material that might interest us:

http://www.stara.biz/corporate/news/news20040827.htm

Our 5ft ol' reliable standard still weighs over a lb. This Cuban
stuff could get us a few more feet of apogee? Wotchall think?

73 de Mike W5VSI

Gene Harlan wrote:
> Now this is the way to get the balloons back. While it might be a little
> pricey since it is made for the government, they claim that this parachute
> will deliver a payload weighing from 50 to 100 lbs. from an altitude of up
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> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
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> Regards,
>
> Moderator, Ballooning
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>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1992. Re: [GPSL] Re: Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 05:55:40 UTC
From: Mike Manes
Topic: 1975 Message: 1992

Hi Dave,

So you're in Lexington KY? Do you know any of the U Ky Eng'g
Big Blue project folks, like Bill Smith KG4YLM? EOSS has flown
their project out of Colo 3 times to date.

73 de Mike W5VSI

Dave wrote:
> --- In GPSL@yahoogroups.com, "Gene Harlan" <atvq@h...> wrote:
>
>>I sent out message to see what kind of interest there is in
>>the Rockford, Illinois area for a balloon launch. This was
>>instigated due to the fact that my grandson's teacher thought
>>it would be a neat thing to do (once I suggested it to her!).
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>
> I don't know that Rockford is a real good place to perform a
> balloon launch due to the prevailing winds and that rather huge
> bit of water to the east ("splash...glugglugglug....oh oh").
> Then, again, if you waterproof the payload well enough, and have
> a water based recovery team, it might be acceptable. Or, if
> you choose to launch when the winds (at altitude as well as
> near ground level) are blowing in another direction. Or, if
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>>a few others in the last couple of days. All details are yet
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>>Thanks.
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>>Gene Harlan - WB9MMM
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>
> Dave
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1993. Re: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 15:54:10 UTC
From: Zack Clobes
Topic: 1989 Message: 1993

Who shut the projects down? How big were they, and what were they carrying?

Zack

Don KA0JLF wrote:
> I know some friends who's UAV projects were shut down.
> I haven't heard or check on them in a couple of years.
> Worth checking. Thanks Gene, I'll try to check on 'em.
>
> 73
> Don
>
> --- Gene Harlan <atvq@...> wrote:
>
>
>> Interesting! Not something I had thought about.
>>
>> Gene - WB9MMM
>>
>> ----- Original Message -----
>> From: "Don KA0JLF" <ka0jlf@...>
>> To: <GPSL@yahoogroups.com>; "TVNSP"
>> <tvnsp@yahoogroups.com>; "EOSS balloons"
>> <EOSS@yahoogroups.com>; "BATS mailing list"
>> <BATS@...>;
>> "Ballooning" <Ballooning@yahoogroups.com>; "ORB
>> Oklahoma balloons"
>> <oklahoma_research_balloons@yahoogroups.com>
>> Sent: Friday, January 27, 2006 5:25 PM
>> Subject: [Ballooning] Re: [GPSL] STARA - Miniature
>> Guided Parachute Sensor
>> Delivery from UAV
>>
>>
>> Looks like this is a UAV. The our local FAA, not
>> sure
>> about the rest, don't like UAVs. It's a 9/11 thing.
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>> Don
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>> --- Gene Harlan <atvq@...> wrote:
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>>> Now this is the way to get the balloons back.
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>> While
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>>> it might be a little
>>> pricey since it is made for the government, they
>>> claim that this parachute
>>> will deliver a payload weighing from 50 to 100
>>>
>> lbs.
>>
>>> from an altitude of up
>>> to 35,000 feet, to within 75 feet of the target. I
>>> saw this in Machine
>>> Design, January 12, 2006.
>>>
>>> So, wouldn't it be nice to just bring our launches
>>> right back to us!
>>>
>>> http://www.stara.biz/
>>>
>>> Gene Harlan - WB9MMM
>>> NEW - Name Tags by Gene
>>> Harlan Technologies - publisher of Amateur
>>> Television Quarterly
>>> ATVQ@...
>>> 815-398-2683 - voice
>>> 815-398-2688 - fax
>>> http://www.hampubs.com
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>> ~~~~~~
>> Do You Yahoo!?
>> Tired of spam? Yahoo! Mail has the best spam
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>> http://mail.yahoo.com
>>
>>
>> To start sending messages to members of this group,
>> simply send email to
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>> Ballooning@yahoogroups.com
>>
>> If you do not wish to belong to Ballooning, you may
>> unsubscribe by sending an email to
>>
>> Ballooning-unsubscribe@yahoogroups.com
>>

>> You may also visit the eGroups web site to modify
>> your
>> subscriptions:
>>
>> http://groups.yahoo.com/group/Ballooning
>>
>> To email the list Owner, just send a message to the
>> following address:
>>
>> Ballooning-owner@yahoogroups.com
>>
>>
>> Regards,
>>
>> Moderator, Ballooning
>>
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>> Yahoo! Groups Links
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1994. Re: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 16:11:28 UTC
From: Don KA0JLF
Topic: 1989 Message: 1994

1.) FAA
2.) flying across FL
3.) R/C UAV
3a.) Video - HUD for pilot to fly remotely

Above from memory, a few years old, not completely
reliable. I don't know if the website is still up.
I'll have to revive old emails.

--- Zack Clobes <zclobes@...> wrote:

> Who shut the projects down? How big were they, and
> what were they carrying?
>
> Zack
>
> Don KA0JLF wrote:
> > I know some friends who's UAV projects were shut
> down.
> > I haven't heard or check on them in a couple of
> years.
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> >>
> >> ----- Original Message -----
> >> From: "Don KA0JLF" <ka0jlf@...>
> >> To: <GPSL@yahoogroups.com>; "TVNSP"
> >> <tvnsp@yahoogroups.com>; "EOSS balloons"
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> >> <BATS@...>;
> >> "Ballooning" <Ballooning@yahoogroups.com>; "ORB
> >> Oklahoma balloons"
> >> <oklahoma_research_balloons@yahoogroups.com>
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> >>
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> >>> 815-398-2683 - voice
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> >>> http://www.hampubs.com
> >>>
> >>>

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> ____
> >> Do You Yahoo!?
> >> Tired of spam? Yahoo! Mail has the best spam
> >> protection around
> >> http://mail.yahoo.com
> >>
> >>
> >> To start sending messages to members of this
> group,
> >> simply send email to
> >>
> >> Ballooning@yahoogroups.com
> >>
> >> If you do not wish to belong to Ballooning, you
> may
> >> unsubscribe by sending an email to
> >>
> >> Ballooning-unsubscribe@yahoogroups.com
> >>
> >> You may also visit the eGroups web site to modify
> >> your
> >> subscriptions:
> >>
> >> http://groups.yahoo.com/group/Ballooning
> >>
> >> To email the list Owner, just send a message to
> the
> >> following address:
> >>
> >> Ballooning-owner@yahoogroups.com
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> >>
> >> Regards,
> >>
> >> Moderator, Ballooning
> >>
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> >>
> >> Yahoo! Groups Links
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> >>
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1995. Re: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-28 16:38:03 UTC
From: Don KA0JLF
Topic: 1989 Message: 1995

Oh, I may have misunderstood your question Zack.

This was an Amateur Radio project, so it was basically a one person with friends project (kind of like the balloon thing). They were carring HAM gear.

There is a organization for the Big Boy UAV projects. They mostly do goverment and research type stuff. They have goverment approval to fly, but I don't know the details on that. There is a website for the organization, I don't recall what it is, but a google on UAV would probably find it. I'm pretty sure some of the past postings had links in them if you followed the path. As I recall there were several base projects, LTA, Helo, flying wing, parafoils, and balloon. In fact I just heard something on the radio, either this week or last, about them being used on the southern boarder and increased interest in them.

Hope this might be more of what you were asking.

73
Don

--- Zack Clobes <zclobes@...> wrote:

> Who shut the projects down? How big were they, and
> what were they carrying?
>
> Zack
>
> Don KA0JLF wrote:
> > I know some friends who's UAV projects were shut
> down.
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> >> <BATS@...>;
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> >>> Harlan Technologies - publisher of Amateur
> >>> Television Quarterly
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> >> unsubscribe by sending an email to
> >>
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> >>
> >> You may also visit the eGroups web site to modify
> >> your
> >> subscriptions:
> >>
> >> http://groups.yahoo.com/group/Ballooning
> >>
> >> To email the list Owner, just send a message to
> the
> >> following address:
> >>
> >> Ballooning-owner@yahoogroups.com
> >>
> >>
> >> Regards,

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1996. Re: Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-29 05:38:53 UTC
From: Dave
Topic: 1975 Message: 1996

--- In GPSL@yahoogroups.com, Mike Manes <manes@a...> wrote:
>
> Hi Dave,
>
> So you're in Lexington KY? Do you know any of the U Ky Eng'g
> Big Blue project folks, like Bill Smith KG4YLM? EOSS has flown
> their project out of Colo 3 times to date.
>
> 73 de Mike W5VSI

Yep, I'm in Lexington, but I've lost contact with most of the
people at UK. I graduated from there, but it's been almost
20 years ago, and there aren't many people around from back
when I was going there.

Dave
WA4QAL

1997. ND Cell Balloons link

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-30 20:08:27 UTC
From: John C Nordlie
Topic: 1987 Message: 1997

Not a lot new in this story, but I figured I'd pass it along anyway:

http://news.yahoo.com/s/ap/20060130/ap_on_hi_te/cellular_balloons

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==========

1998. Re: [GPSL] Re: Rockford, Illininois

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-31 06:08:15 UTC
From: Mike Manes
Topic: 1975 Message: 1998

Hi Dave,

Well, if you've got some ballooning experience, the U Ky Eng'g
Big Blue project might interest you, and you might be able to
give 'em hand as well. Suggest giving Bill a holler.

73 de Mike W5VSI

Dave wrote:
> --- In GPSL@yahoogroups.com, Mike Manes <manes@a...> wrote:
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>>Hi Dave,
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>>So you're in Lexington KY? Do you know any of the U Ky Eng'g
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> Yep, I'm in Lexington, but I've lost contact with most of the
> people at UK. I graduated from there, but it's been almost
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>
> Dave
> WA4QAL
>
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> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

1999. Re: [Ballooning] Re: [GPSL] STARA - Miniature Guided Parachute Sensor Delivery from UAV

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-31 06:02:36 UTC
From: Mike Manes
Topic: 1989 Message: 1999

Hi Zack,

Not sure about Don's experience, but FAA NW Region refused to grant
a waiver for U. Ky Big Blue project to release a 15 lb autopiloted
glider from 100K'. They cited new FAA regs intended to be applied
to big stuff like USAF Predator etc flying in US civil airspace.
The rules require the bird to be equipped like an airplane, including
visual see-and-avoid techniques.

They did OK a release below 18K' VFR in Class E aispace, provided the
control op could see the glider and execute see-and-avoid maneuvers.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:
> Who shut the projects down? How big were they, and what were they carrying?
>
> Zack
>
> Don KA0JLF wrote:
>
>>I know some friends who's UAV projects were shut down.
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>>>To start sending messages to members of this group,
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>>>Regards,
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>>>Moderator, Ballooning
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> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> --
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2000. ARHAB 2006 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-01 20:32:07 UTC
From: PAUL VERHAGE
Topic: 2000 Message: 2000

I'm almost done contacting the award sponsors.

I'll need photos of each winner with their prize. We could either do this at GPSL or you could send me a photo. Is there a preference? Personally, I think it would be great to add an award ceremony to GPSL.

Paul

2001. Re: [GPSL] ARHAB 2006 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-01 22:42:21 UTC
From: Gene Harlan
Topic: 2000 Message: 2001

And pictures along with the contest winning info can be published in ATVQ.
Next dealine is April 1st (no joke). Sorry, no balloon article in the issue
getting mailed this week - none submitted.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, February 01, 2006 2:32 PM
Subject: [GPSL] ARHAB 2006 Awards

I'm almost done contacting the award sponsors.

I'll need photos of each winner with their prize. We could either do
this at GPSL or you could send me a photo. Is there a preference?
Personally, I think it would be great to add an award ceremony to GPSL.

Paul

Yahoo! Groups Links

2002. Re: [GPSL] ARHAB 2006 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-02 14:23:57 UTC
From: PAUL VERHAGE
Topic: 2000 Message: 2002

Would anyone be interested in writing the next ATVQ ARHAB Article?
Ralph, how do you feel about doing one on the 2005 competitions?

Paul

>>> atvq@... 2/1/2006 3:42 pm >>>
And pictures along with the contest winning info can be published in
ATVQ.
Next dealine is April 1st (no joke). Sorry, no balloon article in the
issue
getting mailed this week - none submitted.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
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http://www.hampubs.com

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, February 01, 2006 2:32 PM
Subject: [GPSL] ARHAB 2006 Awards

I'm almost done contacting the award sponsors.

I'll need photos of each winner with their prize. We could either do
this at GPSL or you could send me a photo. Is there a preference?
Personally, I think it would be great to add an award ceremony to
GPSL.

Paul

Yahoo! Groups Links

Yahoo! Groups Links

2003. Re: [GPSL] ARHAB 2006 Awards

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-02 19:20:20 UTC
From: Ralph Wallio, W0RPK
Topic: 2000 Message: 2003

I must pass but the information is available in our Records page, http://showcase.netins.net/web/wallio/ARHABrecords.htm, if others want to do it. -w0rpk

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, February 02, 2006 8:23 AM
Subject: Re: [GPSL] ARHAB 2006 Awards

Would anyone be interested in writing the next ATVQ ARHAB Article?
Ralph, how do you feel about doing one on the 2005 competitions?

Paul

2004. [Fwd: SuitSat 9:30 PM Friday]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-04 07:55:12 UTC
From: Mike Manes
Topic: 2004 Message: 2004

-------- Original Message --------
Subject: SuitSat 9:30 PM Friday
Date: Fri, 03 Feb 2006 21:27:43 -0700
From: Toro-Allen, Scott L <scott.l.toro-allen@...>
To: ab0mv@..., ae0q@..., ascs@...,
aspeicher@..., "Clark, Robert" <robert.h.clark@...>,
collazoi@..., db51697@..., don.sambol@...,
ErikDyce@..., "Fitzner, Kirk" <kirk.l.fitzner@...>,
grif80128@..., "HANKS, NICHOLAS" <nicholas.d.hanks@...>,
"Hawes, Karen" <karen.e.hawes@...>, "Hills, Pete"
<peterhills@...>, "Hunter, Gary" <gary.l.hunter@...>,
ivan.colazo@..., jack.crabtree@..., jclark@...,
jfzapp@..., johnd@..., k0ez@..., k0tor@...,
KA0GPA@..., kc0fx9@..., keeleym@...,
kelly.carlson@..., kelly@..., kt0f@..., Merrimon
Crawford Pladsen <ab0mv@...>, mmccaslin@..., "Myers, Gary"
<gary.k.myers@...>, mzapp@..., n0bn@..., n0mu@...,
n0wbv@..., n6yel@..., nick_erlenburg@...,
nn0c@..., nn0g@..., nq9i@..., "Philachanh, Phongsavath"
<phong.philachanh@...>, "Proulx, Mark" <mark.j.proulx@...>,
randyt@..., "Sharp, Loretta" <lori.sharp@...>,
Sparky Ullmer <remllu@...>, "Speicher, James"
<andy.speicher@...>, steve.e.atterberg@..., "Toro-Allen,
Scott" <scott.l.toro-allen@...>, "Tullis, Marta"
<marta.l.tullis@...>, v31ry@..., w0cbh@...,
w0ett@..., w0hxb@..., w0ixe@..., w5vsi@...,
wallygamble@..., weaceves@..., "Williams, Andrew"
<andrew.d.williams@...>, "Wills, James" <james.r.wills@...>,
WOETT@...

Well after some early weak signal reports, no one has heard the Suitsat
for the last few hours.

NASA TV is theorizing the batteries are too cold for operation, but I'm
not sure how they know that.

If that's true, there is a chance that if the unit gets in the sun, it
might heat up and cause some transmission.

Anyway, I will be out at the shack before 10 AM to see if there's hope.

Keep checking suitsat.org for updates.

Scott
W0SJE

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2005. Re: [Ballooning] rumor control..... > 2. Re: Ballooning Idea Response

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-04 07:02:58 UTC
From: Mike Manes
Topic: 2005 Message: 2005
Attachments: 1 described; binary payloads are missing from this source WARC

Hi K-Mark,

Well, we've never been compelled to abide the dual redundant
termination requirement for exempt flights. However, the way I
read FAR 101.35(a)(1&2) is that latex burst is (or a plastic
burst panel on a sounder) serves as a primary system for "heavies".
That's how my waiver apps put it, and they get approved certs.

Now, you ask about the UAV rules. Cheryl Brown at Region was
good enough to send me the UAV rulemaking memo, attached to
this email. It's a 108K Word file, so not sure all addess will get
it. But you will.

73 de Mike W5VSI

Mark Caviezel wrote:
> Hi Mike,
> The original discussion was Brian's thought or
> impression that the rules for ARHAB style flights are
> 'based upon the balloon bursting'. I can't see that
> they are. Is there something in the entire picture
> that says they are required to burst? It's certainly
> not in part 101. Do the newly forged and evolving UAV
> rules have applicability to, say, a single 4 lb
> package on a 2000 gram latex balloon? If there are
> any regulations that require the balloon to burst
> you'd be doing a huge service to the ARHAB community
> to share that knowledge widely. If there are no rules
> or regulations that require the balloon to burst then
> I will suggest that the 'requirement' to do so is
> itself a rumor.
>
> - KMC
>
>
>
>
>
>
> --- Mike Manes <manes@...> wrote:
>
>
>>The "rules" also include any regs that the FAA
>>chooses to
>>promulgate that are consistent with Congressional

>>mandate.
>>FAR 101 is NOT the entire picture. E.g., the UAV
>>rules.
>>
>>This is poorly understood by many ARHAB folks, at
>>their own
>>risk and the disadvantage of all of us in this
>>community.
>>
>>73 de Mike W5VSI
>>Prez EOSS
>>
>>K. Mark Caviezel wrote:
>>
>>>> From: Brian Riley <brianbr@...>
>>>>Subject: Re: Ballooning Idea Response
>>>>
>>>>Correct me if I am wrong, but the rules under
>>
>>which
>>
>>>>we fly are based
>>>>upon the balloon bursting.
>>>
>>>
>>>I will politely suggest you read 'the rules'.
>>
>>Which
>>
>>>for me is FAA Part 101 as it pertains to unmanned
>>
>>free
>>
>>>balloons. Conveniently available at
>>>
>>
> http://www.ucar.edu/communications/staffnotes/0404/marcel.html
>
>>>There is no time limit for flight nor requirement
>>
>>for
>>
>>>bursting. I'm fairly certain the record for a
>>
>>small
>>
>>>superpressure balloon is over a year flying. I
>>>couldn't find a citation of that record, but this:
>>>
>>

> http://www.ucar.edu/communications/staffnotes/0404/marcel.html
>
>>>has some darn cool photos worth clicking onto.
>>>
>>>
>>>
>>> Ultimately it limits the
>>>
>>>
>>>>time aloft. If
>>>>you put up a mylar or poly balloon thats designed
>>>>not to burst don't
>>>>we wind up under a whole different set of rules?
>>>
>>>Nope. Same rules. But it you keep the payload
>>
>>under
>>
>>>the 12 lb limit (and no part over 6 lbs and the
>>>ballistic coefficient maximum limit) then in fact
>>
>>the
>>
>>>rules aren't even applicable.
>>>
>>>
>>>
>>>
>>>
>>>>If you run a mylar ballon that doesn't burst, just
>>>>how does the
>>>>flight 'end' ????
>>>>
>>>>
>>>>>>>gas permeation, UV degradation, ozone
>>
>>degradation
>>
>>>of the balloon membrane, combined with gravity
>>
>>will
>>
>>>enventually bring down all balloons. For some
>>
>>groups
>>
>>>(Army/MDA/ Lock Mart HAA, NASA's ULDB, and a few
>>>amatuers) the goal is to fly as long as possible,
>>
>>not

>>
>>>shorter. For free balloons, the rules are
>>
>>uniform
>>
>>>whether you are a sole ham experimenter or a
>>>well-funded federal technocratic jobs program, but
>>>other operations can be attempted by going through
>>
>>the
>>
>>>waiver process. I encourage all ARHABians to
>>
>>know
>>
>>>the rules and work safely within them, and never
>>
>>to
>>
>>>run the risk of squelching an innovator's
>>
>>ingenuity by
>>
>>>misquoting the rules. It's really a terrible
>>
>>thing to
>>
>>>discourage innovation.
>>>
>>>
>>>- KMC Denver, Colorado.
>>>
>>>
>>>
>>>
>>>To start sending messages to members of this
>>
>>group,
>>
>>>simply send email to
>>>
>>>Ballooning@yahoogroups.com
>>>
>>>If you do not wish to belong to Ballooning, you
>>
>>may
>>
>>>unsubscribe by sending an email to
>>>
>>>Ballooning-unsubscribe@yahoogroups.com

>>>
>>>You may also visit the eGroups web site to modify
>>
>>your
>>
>>>subscriptions:
>>>
>>>http://groups.yahoo.com/group/Ballooning
>>>
>>>To email the list Owner, just send a message to
>>
>>the
>>
>>>following address:
>>>
>>>Ballooning-owner@yahoogroups.com
>>>
>>>
>>>Regards,
>>>
>>>Moderator, Ballooning
>>>
>>>
>>>
>>>Yahoo! Groups Links
>>>
>>>
>>to:
>>
>>> Ballooning-unsubscribe@yahoogroups.com
>>>
>>>
>>>
>>>
>>>
>>
>>--
>>Mike Manes manes@... Tel:
>>303-979-4899
>>"Things should be made as simple as possible, but
>>not more so." A. Einstein
>>
>>
>>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

2006. Datalogger

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-08 00:12:11 UTC
From: Roger Hammond
Topic: 2006 Message: 2006

An advertisement for these little loggers showed up in my Inbox at work today.

http://www.measurementcomputing.com/cbicatalog/USB-501.asp?dept_id=414&pf_id=1758

Roger - KC?MWM
CNNSP
Grand Island, NE
http://webpages.charter.net/kc0mwm/home
rahammond@...

2007. AFS-400 Q&A

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-10 05:52:11 UTC
From: Mike Manes
Topic: 2007 Message: 2007

Hi Cheryl,

Please thank Mr. Swartz for his thorough and expedient response.

I take it then that if the air vehicle is steerable horizontally then it's considered an aircraft, regardless of power.

And since our GPS/APRS position reports are delivered in a timely fashion to the ARTCC and TRACON control floor via wxqa.com and findu.com, our balloons and any associated payloads are considered Cooperative Aircraft for purposes of AFS-400.

I've taken the liberty of copying this thread, including Mr. Swartz's reply, to a number of other people in the ballooning community who have been inquiring about some of these issues.

One remaining observation is that the scope of AFS-400, based on its definitions section, could be mistaken to be supercede FAR 101. Perhaps a future revision could make an appropriate reference to that reg, in a fashion similar to that made to AC 91-57 for model aircraft.

Thanks again!

Best regards,
Mike Manes
Prez EOSS

Cheryl.K.Brown@... wrote:
>
> good answer - thanks
>
> Cheryl Krieger Brown
> Airspace Specialist
> Western En Route and Oceanic Service Area Office
> office: (425)227-2532
> fax: (425)227-1530
>
> @ \ /<
> (:^ >)OO~~~
> @ / \<
>
>
> *Rodney Lindbeck/ANM/FAA*
>
> 02/07/2006 02:09 PM
>
>

> To
> Mike Manes <manes@...>
> cc
> Cheryl K Brown/ANM/FAA@FAA, John Warner/ANM/FAA@FAA
> Subject
> Question on FAA form 7711-2 submission EOSS
>
>
>
>
>
>
>
> Mr. Manes,
>
> I got you some information on the questions you had on FAR101.
>
> If you would like any more information feel free to call me or email me.
>
> Thanks,
>
> Rodney Lindbeck
> Operations Support Specialist
> Western En Route and Oceanic Area
> (425) 227-2537
> Email: Rodney.Lindbeck@...
>
> ----- Forwarded by Rodney Lindbeck/ANM/FAA on 02/07/2006 02:05 PM -----
> *Steven Swartz/AWA/FAA*
> AFS-430, Flight Technology Requirements
>
> 02/07/2006 01:51 PM
>
>
> To
> Debra Trindle/AWP/FAA@FAA
> cc
> Rodney Lindbeck/ANM/FAA@FAA, Stephen A Glowacki/AWA/FAA@FAA,
> manes@...
> Subject
> Re: Fw: Question on FAA form 7711-2 submission EOSSLink
> <Notes:///88256C540058E26E/38D46BF5E8F08834852564B500129B2C/8D313C446090FF358825710E0056
444B>
>
>
> With pleasure. FAR 101 deals with Moored kites and balloons, unmanned
> rockets, and unmanned free balloons. Policy 05-01 deals with unmanned
> aircraft. The essential difference is that the unmanned aircraft can be
> controlled or piloted as we like to say. Because they are controllable,
> they are subject to the Part 91 provisions for see and avoid. A balloon

> is not controllable except in terms of height. Put a motor on it and
> you have an unmanned aircraft or airship.
>
> A translationsional lift aircraft is a "tilt-wing" like the Osprey which
> is part airplane and part helicopter. The second UA to receive an
> experimental airworthiness certificate, the Eagle Eye, is a tilt rotor
> made by Bell Textron.
>
> We think that the steerable airfoil vehicles are unmanned aircraft and
> that they need a COA to operate.
>
> As to cooperative aircraft, those are aircraft "known to Air Traffic" in
> our parlance. Normally they are a transponder equipped aircraft talking
> to ATC. In a no radar environment, aircraft on an IFR flight plan if
> they are reporting promptly and properly are "known to ATC" and
> therefore are cooperative.
>
> It is our intention to address flight above FL 600 in the near future.
> Although 600 is the top of Class A, we have issues here because many UA
> fly in the 600 plus arena. We therefore need to take jurisdiction in
> that space.
>
> Steve Swartz, Aviation Safety Inspector
> Flight Technology Requirements Branch (AFS430)
> Federal Aviation Administration
> 470 L'Enfant Plaza, Suite 4102, Washington DC, 20024
> Telephone 202-385-4574
>
>
> -
>
> *Mike Manes <manes@...>*
>
> 02/06/2006 03:04 PM
>
>
> To
> Cheryl K Brown/ANM/FAA@FAA
> cc
> Michelle Smith/ANM/FAA@FAA, Russ Chadwick <Russell.B.Chadwick@...>
> Subject
> Re: Question on FAA form 7711-2 submission EOSS
>
>
>
>
>
>
>
>
>

> Hi Cheryl,
>
> Our most recent 7711-2's in Word97 .doc format ran just about 150K
> bytes, or maybe 200K after MIMEing for email attachments. So they
> should be easily digestible by your email server.
>
> Another topic:
>
> Thank you so much for forwarding me a copy of the policy memo,
> AFS-400 UAS POLICY 05-01! I noted that it was dated Sept '05.
> So it's much more recent than those that I've seen before,
> which appeared to be directed at big DoD UAV's. e.g. Predator and
> Global Hawk. It also appears to be quite a bit less restrictive,
> relying more on a published risk analysis than mandated technical
> requirements. The downside that risk-based go/no-go decisions can
> also be quite subjective.
>
> I did have a question re how this policy document meshes with FAR 101,
> however. The para 5 definition of "Unmanned Aircraft" appears to
> include all the vehicles covered by FAR 101, including unmanned free
> balloons.
>
> Which document takes precedence?
>
> That definition also mentions "translational lift aircraft". Is this
> a defined term in the FAA lexicon? So far, my guess is that applies
> to parasails, but perhaps also gliders and kites? This question
> arises from the prospect of using a steerable parachute, e.g. parasail,
> to direct a descending balloon payload string to a safe and easily
> accessible landing site in lieu of wherever Ma Nature wants to set it
> down.
>
> I'm also not very clear about whether an unmanned free balloon which
> carries GPS-based position telemetry, I-gated into the internet for
> tracking by ARTCC and TRACON is a "Cooperative Aircraft", or does
> that term strictly apply to Mode C/S transponders?
>
> Para 6.10 Flight Above FL600 appears to be a work in progress; however,
> it's where practically all unmanned free balloons go. Is this
> where FAA's jurisdiction ends, or is it simply a no-man's land which
> doesn't incur risks to civil aviation?
>
> It might be more appropriate for me to pose these questions to Mr.
> Hank Cabler at AFS-430, but then, he's not nearly as familiar with
> our kind of operations.
>
> Best regards,
> Mike Manes
> Prez EOSS
>

> Cheryl.K.Brown@... wrote:
> >
> > Although I don't remember exactly your last year's submission, I'm sure
> > it was fine or I would have called you. Our email system has
> > a limit on the size of attachments it will handle, but I think that's
> > about 5 or 6 MB. Other than that, the size of the file doesn't make a
> > difference.
> >
> > Cheryl Krieger Brown
> > Airspace Specialist
> > Western En Route and Oceanic Service Area Office
> > office: (425)227-2532
> > fax: (425)227-1530
> >
> > @ \ /<
> > (:^ >)OO~~~
> > @ / \<
> >
> >
> > *Mike Manes <manes@...>*
> >
> > 02/03/2006 11:49 PM
> >
> >
> > To
> > Cheryl K Brown/ANM/FAA@FAA
> > cc
> > Russ Chadwick <Russell.B.Chadwick@...>,
> Michelle Smith/ANM/FAA@FAA
> > Subject
> > Re: Question on FAA form 7711-2 submission EOSS
> >
> >
> >
> >
> >
> >
> >
> >
> >
> > Hi Cheryl,
> >
> > Were the Word97 7711-2 .doc files I emaied you last year OK for your use?
> >
> > I'll admit that they were bigger than they could have been, since
> > the only Form 7711-2 Waiver Application that I could get in
> > electronic form from the FAA web site was a scanned-in .pdf. I did
> > a graphic copy and pasted the image into a doc file, and added
> > text boxes. I've sent this boilerplate to Russ.
> >
> > Best regards,

> > Mike Manes

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2008. Re: AFS-400 Q&A

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-10 17:25:28 UTC
From: Hank
Topic: 2007 Message: 2008

Thanks to Mike and Rick, AFS-400 and AC 91-57 have been recently posted to:

http://www.eoss.org/pubs/regulations.htm

Those wishing to see the entire context for this regulations discussion should consult recent posts at the ANSR yahoogroup "Ballooning."

Hank

2009. Fascinating article about the Japanese Balloons sent to the US during WWII

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-19 10:01:03 UTC
From: wb8elk@aol.com
Topic: 2009 Message: 2009

_http://www.airpower.maxwell.af.mil/airchronicles/aureview/1968/jan-feb/conley
.html_
(http://www.airpower.maxwell.af.mil/airchronicles/aureview/1968/jan-feb/conley.html)

2010. Re: [GPSL] Fascinating article about the Japanese Balloons sent to the US during WWII

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-19 16:17:06 UTC
From: Keith Kaiser
Topic: 2009 Message: 2010

I found this a most interesting article thanks for sending it out to us.

On 2/19/06, wb8elk@... <wb8elk@...> wrote:
>
> http://www.airpower.maxwell.af.mil/airchronicles/aureview/1968/jan-feb/conley.html
>
>
> SPONSORED LINKS
> Hobby and craft supply Craft hobby Ham radio
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
> YAHOO! GROUPS LINKS
>
>
> Visit your group "GPSL" on the web.
>
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
>
> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
>

--
YIS/YIV
Keith D Kaiser -- Venturing Roundtable Commissioner
kaiserklan.com
kaiserklan.com/roundtable
kaiserklan.com/wa0tjt
keith.kaiser@...

2011. Balloons in Today's Military?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-19 17:26:23 UTC
From: Ralph Wallio, W0RPK
Topic: 2011 Message: 2011

Recommended reading:

Air & Space Power Journal, Winter 2005
http://www.airpower.maxwell.af.mil/airchronicles/apj/apj05/win05/win05.html

Balloons in Today's Military?
An Introduction to the Near-Space Concept
http://www.airpower.maxwell.af.mil/airchronicles/apj/apj05/win05/tomme.html

The Paradigm Shift to Effects-Based Space:
Near-Space as a Combat Space Effects Enabler
https://research.maxwell.af.mil/papers/ay2005/ari/CADRE_ARI_2005-01.pdf

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2012. Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-22 16:13:22 UTC
From: Ryan Butler
Topic: 2012 Message: 2012

Greetings,

Kaymont doesn't appear to sell small quantities of balloons anymore and direct you to Scientific Sales now. However, Scientific Sales appears to be marking them up almost 100%.

The minimum direct order is 6, which is surplus to our needs. Does anyone need any Kaymont 1200g balloons that would be interested in a group purchase with us? Conversely, has anyone done a large purchase and has some extra 1200's they would like to get rid of?

Thanks

Ryan Butler, KB0JQO

2013. Re: [GPSL] Kaymont 1200g - I have some Kaysams available

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-22 20:09:10 UTC
From: wb8elk@aol.com
Topic: 2013 Message: 2013

In response to Ryan's question and to anyone interested:

I have a few Kaysam 2000 gram and 3000 gram balloons I'll let go for the price of the smaller balloons....these are about a year old and good performers and were purchased from Kaysam when they went out of business last year. The nozzle neck is a larger diameter than the 1200 gram balloons however, so plan accordingly with your balloon filler.

2000 gram: $120
3000 gram: $150

- Bill WB8ELK
(mailto:wb8elk@...)

2014. [Fwd: [KNSP] *** Website updated ***]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-22 22:28:27 UTC
From: Mike Manes
Topic: 2014 Message: 2014

-------- Original Message --------
Subject: [KNSP] *** Website updated ***
Date: Wed, 22 Feb 2006 17:39:53 -0000
From: Roger Hammond <rahammond@...>
To: KNSP@yahoogroups.com

I finally broke down and purchased a domain name.
The Central Nebraska Near Space Program can now be more easily accessed
on the web at:

www.cnnsp.org

Rog - KC?MWM

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP

Yahoo! Groups Links

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2015. FW: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-23 03:27:24 UTC
From: Mark Conner
Topic: 2015 Message: 2015

This is not good news. I usually bought 4-5 at a time at most. Agree that SS is not a great route to go with their markup. While I'm not interested in getting more balloons yet, I encourage each group to post when they're going to make a buy to see if we can get to 6.

Ryan, did you get a price from Kaymont if you bought 6?

73 de Mark N9XTN

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ryan Butler
Sent: Wednesday, February 22, 2006 10:13
To: GPSL@yahoogroups.com
Subject: [GPSL] Kaymont 1200g

Greetings,

Kaymont doesn't appear to sell small quantities of balloons anymore and direct you to Scientific Sales now. However, Scientific Sales appears to be marking them up almost 100%.

The minimum direct order is 6, which is surplus to our needs. Does anyone need any Kaymont 1200g balloons that would be interested in a group purchase with us? Conversely, has anyone done a large purchase and has some extra 1200's they would like to get rid of?

Thanks

Ryan Butler, KB0JQO

2016. RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-24 00:31:48 UTC
From: Doug Loughmiller
Topic: 2015 Message: 2016

Hi Everybody,

I am heading up a new group, ARBONET (Amateur Radio Balloons Over North East Texas). We need to order two balloons pretty quickly as we are working towards a flight at the end of April. We will need to order two 1200 gram balloons so let us know the details.

73,

Doug Loughmiller, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Wednesday, February 22, 2006 9:27 PM
To: KNSP@yahoogroups.com
Cc: GPSL@yahoogroups.com
Subject: FW: [GPSL] Kaymont 1200g

This is not good news. I usually bought 4-5 at a time at most. Agree that SS is not a great route to go with their markup. While I'm not interested in getting more balloons yet, I encourage each group to post when they're going to make a buy to see if we can get to 6.

Ryan, did you get a price from Kaymont if you bought 6?

73 de Mark N9XTN

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ryan Butler
Sent: Wednesday, February 22, 2006 10:13
To: GPSL@yahoogroups.com
Subject: [GPSL] Kaymont 1200g

Greetings,

Kaymont doesn't appear to sell small quantities of balloons anymore and direct you to Scientific Sales now. However, Scientific Sales appears to be marking them up almost 100%.

The minimum direct order is 6, which is surplus to our needs. Does anyone need any Kaymont 1200g balloons that would be interested in a group purchase with us? Conversely, has anyone done a large purchase and has some extra 1200's they would like to get rid of?

Thanks

Ryan Butler, KB0JQO

SPONSORED LINKS

Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+cra
ft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
and craft supply

Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w
2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ> hobby

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw> radio

---

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on
the web.

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

2017. RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-24 01:18:17 UTC
From: Don KA0JLF
Topic: 2012 Message: 2017

We were getting ready to order about 6 balloons,
actually I was expected to have them ordered already,
was planning on 1000 gram but we could be flexible or
coordinate with other groups for a group purchase. Was
the 6 minimum with Kaymont or SS?

Don KA0JLF
HABITAT SkyLab

--- Doug Loughmiller <W5BL@...> wrote:

> Hi Everybody,
>
>
>
> I am heading up a new group, ARBONET (Amateur Radio
> Balloons Over North East
> Texas). We need to order two balloons pretty quickly
> as we are working
> towards a flight at the end of April. We will need
> to order two 1200 gram
> balloons so let us know the details.
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>
> 73,
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>
> Doug Loughmiller, W5BL
>
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>
> _____
>
> From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com] On Behalf Of Mark
> Conner
> Sent: Wednesday, February 22, 2006 9:27 PM
> To: KNSP@yahoogroups.com
> Cc: GPSL@yahoogroups.com
> Subject: FW: [GPSL] Kaymont 1200g
>
>

>
> This is not good news. I usually bought 4-5 at a
> time at most. Agree that
> SS is not a great route to go with their markup.
> While I'm not interested
> in getting more balloons yet, I encourage each group
> to post when they're
> going to make a buy to see if we can get to 6.
>
> Ryan, did you get a price from Kaymont if you bought
> 6?
>
> 73 de Mark N9XTN
>
> -----Original Message-----
> From: GPSL@yahoogroups.com
> [mailto:GPSL@yahoogroups.com] On Behalf Of Ryan
> Butler
> Sent: Wednesday, February 22, 2006 10:13
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Kaymont 1200g
>
> Greetings,
>
> Kaymont doesn't appear to sell small quantities of
> balloons anymore and
> direct you to Scientific Sales now. However,
> Scientific Sales appears
> to be marking them up almost 100%.
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> The minimum direct order is 6, which is surplus to
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> anyone need any Kaymont 1200g balloons that would be
> interested in a
> group purchase with us? Conversely, has anyone done
> a large purchase
> and has some extra 1200's they would like to get rid
> of?
>
> Thanks
>
> Ryan Butler, KB0JQO
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>
> SPONSORED LINKS
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> Hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+cra
>
ft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
> and craft supply
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> Craft
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<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w
>
2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
> hobby
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> Ham
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<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=
>
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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> YAHOO! GROUPS LINKS
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> * Visit your group "GPSL
> <http://groups.yahoo.com/group/GPSL> " on
> the web.
>
> * To unsubscribe from this group, send an email to:
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>
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
>
> * Your use of Yahoo! Groups is subject to the
> Yahoo!
> <http://docs.yahoo.com/info/terms/> Terms of
> Service.
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2018. RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-24 16:38:57 UTC
From: Ryan Butler
Topic: 2012 Message: 2018

6 is the minimum direct from Kaymont, SS will sell single unit
quantities @ $110 each

The minimum of 6 from Kaymont is $70 each

Neither include shipping.

We're looking at needing 2.

Sounds like we could get an order for at least 10?

Ryan

On Thu, 2006-02-23 at 17:18 -0800, Don KA0JLF wrote:
> We were getting ready to order about 6 balloons,
> actually I was expected to have them ordered already,
> was planning on 1000 gram but we could be flexible or
> coordinate with other groups for a group purchase. Was
> the 6 minimum with Kaymont or SS?
>
> Don KA0JLF
> HABITAT SkyLab
>
> --- Doug Loughmiller <W5BL@...> wrote:
>
> > Hi Everybody,
> > >
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> > > I am heading up a new group, ARBONET (Amateur Radio
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> > > >
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> > > > Doug Loughmiller, W5BL
> > > >
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> > [mailto:GPSL@yahoogroups.com] On Behalf Of Mark
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> > Sent: Wednesday, February 22, 2006 9:27 PM
> > To: KNSP@yahoogroups.com
> > Cc: GPSL@yahoogroups.com
> > Subject: FW: [GPSL] Kaymont 1200g
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> > SS is not a great route to go with their markup.
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> > a large purchase

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> > of?
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> > Ryan Butler, KB0JQO
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> > SPONSORED LINKS
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> > Hobby
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> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby
> +and+cra
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> ft+supply&w2=Craft+hobby&w3=Ham
> +radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
> > and craft supply
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> > Craft
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> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft
> +supply&w
> >
> 2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
> > hobby
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> > Ham
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> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft
> +supply&w2=
> >
> Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
> > radio
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> > YAHOO! GROUPS LINKS
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> > * Visit your group "GPSL
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> >
> > * To unsubscribe from this group, send an email to:
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> >
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
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> >
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2019. RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-24 16:57:49 UTC
From: PAUL VERHAGE
Topic: 2012 Message: 2019

If we're going to put in a group order, then I'll order two balloons.

Paul

>>> rbutler@... 2/24/2006 9:38 am >>>
6 is the minimum direct from Kaymont, SS will sell single unit
quantities @ $110 each

The minimum of 6 from Kaymont is $70 each

Neither include shipping.

We're looking at needing 2.

Sounds like we could get an order for at least 10?

Ryan

On Thu, 2006-02-23 at 17:18 -0800, Don KA0JLF wrote:
> We were getting ready to order about 6 balloons,
> actually I was expected to have them ordered already,
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> Don KA0JLF
> HABITAT SkyLab
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> > 73,
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> > Doug Loughmiller, W5BL
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> > To: KNSP@yahoogroups.com
> > Cc: GPSL@yahoogroups.com
> > Subject: FW: [GPSL] Kaymont 1200g
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> > This is not good news. I usually bought 4-5 at a
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> > SPONSORED LINKS
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> > Hobby
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> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby

> +and+cra
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> ft+supply&w2=Craft+hobby&w3=Ham
> +radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
> > and craft supply
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> > Craft
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> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft
> +supply&w
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> 2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
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> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft
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> Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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> > YAHOO! GROUPS LINKS

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Yahoo! Groups Links

2020. RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-24 19:06:47 UTC
From: rahammond@charter.net
Topic: 2012 Message: 2020

I'd take 2 @ $70 + shipping.

Rog - KC0MWM
Grand Island, NE
www.cnnsp.org

---- Ryan Butler <rbutler@...> wrote:
> 6 is the minimum direct from Kaymont, SS will sell single unit
> quantities @ $110 each
>
> The minimum of 6 from Kaymont is $70 each
>
> Neither include shipping.
>
> We're looking at needing 2.
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> Sounds like we could get an order for at least 10?
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> > +and+cra
> > >
> > ft+supply&w2=Craft+hobby&w3=Ham
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> > > and craft supply
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> > > Craft
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> > +supply&w
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> > 2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
> > > hobby
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> > <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft
> > +supply&w2=
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> > Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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> > > YAHOO! GROUPS LINKS
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> Yahoo! Groups Links
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2021. Re: [KNSP] RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-24 19:12:06 UTC
From: Stephanie Steele
Topic: 2021 Message: 2021

Can someone check and see where there might be a price break? Perhaps at a case quantity there might be some signifigant savings.

Stephanie

Hap Griffin wrote:

>----- Original Message -----
>From: "Ryan Butler" <rbutler@...>
>To: <GPSL@yahoogroups.com>
>Cc: <KNSP@yahoogroups.com>
>Sent: Friday, February 24, 2006 11:38 AM
>Subject: [KNSP] RE: [GPSL] Kaymont 1200g
>
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>>6 is the minimum direct from Kaymont, SS will sell single unit
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>>
>>Neither include shipping.
>>
>>We're looking at needing 2.
>>
>>Sounds like we could get an order for at least 10?
>>
>>Ryan
>>
>>
>>
>
>I'm good for 2 @ $70 each plus shipping.
>
>Hap Griffin, WZ4O (good in the callbook)
>South Carolina
>
>
>
>
>List owner: KNSP-owner@yahoogroups.com
>Group URL: http://groups.yahoo.com/group/KNSP
>wner: KNSP-owner@yahoogroups.com
>Group URL: http://groups.yahoo.com/group/KNSP
>

>Yahoo! Groups Links
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Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

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de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

IMPORTANT: This email is intended for the use of the
individual addressee(s) named above and may contain
information that is confidential privileged or unsuitable
for overly sensitive persons with low self-esteem, no
sense of humor or irrational religious beliefs. If you are
not the intended recipient, any dissemination, distribution
or copying of this email is not authorized (either explicitly
or implicitly) and constitutes an irritating social faux pas.
Unless the word absquatulation has been used in its
correct context somewhere other than in this warning,
it does not have any legal or grammatical use and may
be ignored. No animals were harmed in the transmission
of this email, although the kelpie next door is living on
borrowed time, let me tell you.

Those of you with an overwhelming fear of the unknown
will be gratified to learn that there is no hidden message

revealed by reading this warning backwards, so just ignore
that Alert Notice from Microsoft. However, by pouring a
complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

2022. UTARC UX-7 heard on 30m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 17:01:08 UTC
From: Ralph Wallio, W0RPK
Topic: 2022 Message: 2022

UTARC UX-7 is ascending through 7700ft. I am hearing 30m CW telemetry on 10.122MHz here in Iowa.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2023. Re: [GPSL] UTARC UX-7 heard on 30m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 18:05:20 UTC
From: Harry M
Topic: 2022 Message: 2023

I am also hearing it in Tulsa!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

> UTARC UX-7 is ascending through 7700ft. I am hearing 30m CW telemetry on
> 10.122MHz here in Iowa.

2024. Re: [GPSL] UTARC UX-7 heard on 30m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 18:11:12 UTC
From: Mark Garrett
Topic: 2022 Message: 2024
Attachments: 1 described; binary payloads are missing from this source WARC

I have been unable to copy here in Champaign, IL but I am too far away at
this point to hear it direct and not far enough away to have any skip. Bummer.

Mark, KA9SZX

At 12:05 PM 2/25/2006, you wrote:

>I am also hearing it in Tulsa!
>
>
>-----
>Harry - KC5TRB - Tulsa
>Oklahoma Research Balloons
><http://members.cox.net/hhm_74775/orb/>http://members.cox.net/hhm_74775/orb/
>http://groups.yahoo.com/group/oklahoma_research_balloons/join
>-----
>
>
> > UTARC UX-7 is ascending through 7700ft. I am hearing 30m CW telemetry on
> > 10.122MHz here in Iowa.
>
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby
&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w
3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>Ham
>radio
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup

s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 268.1.0/269 - Release Date: 2/24/2006

2025. UTARC UX-7 good copy charlotte NC

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 18:13:15 UTC
From: David Strubbe
Topic: 2025 Message: 2025

Good copy charlotte NC

RST 549 on tha Balloon from Charlotte NC

18:06 Z
Aa4ut/b12926.7/36n11.0259/084w07.2176/10/p05/11.6/021/046/www.utarc.org

18:09 Z
Aa4ut/b13629.6/36n11.0876/084w01.3877/10/p03/11.6/022/047/www.utarc.org

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Saturday, February 25, 2006 1:05 PM
Subject: Re: [GPSL] UTARC UX-7 heard on 30m in Iowa

I am also hearing it in Tulsa!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

> UTARC UX-7 is ascending through 7700ft. I am hearing 30m CW telemetry on
> 10.122MHz here in Iowa.

SPONSORED LINKS Hobby and craft supply Craft hobby Ham radio

YAHOO! GROUPS LINKS

a.. Visit your group "GPSL" on the web.

b.. To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

2026. RE: [GPSL] UTARC UX-7 heard on 30m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 18:21:55 UTC
From: Roger Hammond
Topic: 2022 Message: 2026

Receiving CW telemetry on 10.123 here in Grand Island, NE.

2027. Re: [GPSL] UTARC UX-7 heard on 30m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 18:36:17 UTC
From: Mark Garrett
Topic: 2022 Message: 2027
Attachments: 1 described; binary payloads are missing from this source WARC

Now being heard in Champaign, Il by N9GOC. He reports a S-6 signal level
with signal shifting around at 18:35 UTC on 10.12289 KHz

Mark, KA9SZX

At 11:01 AM 2/25/2006, you wrote:

>UTARC UX-7 is ascending through 7700ft. I am hearing 30m CW telemetry on
>10.122MHz here in Iowa.
>
>TNX es 73 de Ralph Wallio, WØRPK
>W0RPK@...
><http://showcase.netins.net/web/wallio/>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby
&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w
3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>Ham
>radio
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>

>----------
>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 268.1.0/269 - Release Date: 2/24/2006

2028. UX-7 CW telemetry may prove vital

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 18:58:55 UTC
From: Ralph Wallio, W0RPK
Topic: 2028 Message: 2028

UX-7 data on FINDU and APRSWORLD has not updated since ~44kft ascending. 30m telemetry may be required for recovery. Please report decoded telemetry here on GPSL so we will have a position report at landing. UX-7 now at ~16kft descending.

-w0rpk

2029. Re: [GPSL] UTARC UX-7 heard on 30m in Iowa

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 19:15:58 UTC
From: Mark Garrett
Topic: 2022 Message: 2029

I have lost APRS ability here for the past hour on the balloon. At 19:13 the signal faded for me and another station who was monitoring the local repeater (KF9Z). He will try and monitor as the balloon completes it flight.

Mark

--
No virus found in this outgoing message.
Checked by AVG Anti-Virus.
Version: 7.1.375 / Virus Database: 268.1.0/269 - Release Date: 2/24/2006

2030. Re: [GPSL] UX-7 CW telemetry may prove vital

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 19:18:39 UTC
From: David Strubbe
Topic: 2028 Message: 2030

This is everything I could grab out of Charlotte

All the best

Dave Strubbe k8zk/4
Strage osc in CW 18:27 Z JUST STARTED

looks like she is coming down

AA4ut/b15355.0/36n07.9005/083w23.4625/10/n07/11.4/017/056/www.utarc.org

AA4ut/b13810.2/36n07.3053/083w18.1541/10/n08/11.3/018/057/www.utarc.org

AA4UT/B12467.3/36n07.4015/083w12.6463/09/n09/11.3/033/058/www.utarc.org

AA4UT/B11261.0/36n07.3035/083w06.0044/10/n10/11.3/030/059/www.utarc.org

AA4UT/B10143.8/36n07.9716/083w00.1284/10/n11/11.2/029/060/www.utarc.org

AA4UT/B9136.1/36n08.75__/082w54.4150/10/n11/11.2/025/061/www.utarc.org

AA4UT/B8180.6/36n09.5858/082w49.2043/10/n11/11.2/035/062/www.utarc.org

AA4UT/B7314.7/36n09.9374/082w44.4732/10/n10/11.2/037/063/www.utarc.org

AA4UT/B6461.8/36n09.8875/082w40.5249/10/n10/11.1/000/064/www.utarc.org

AA4UT/B5686.9/36n09.5827/082w37.6632/10/n09/11.1/000/065/www.utarc.org

AA4UT/B4956.7/36n09.5409/082w35.___/10/n08/11.1/000/066/www.utarc.org

AA4UT/B4258.9/36n09.4482/082w33.4779/10/07/11.1 ..../06....www.utarc.org

AA4UT/B NO COPY AT THIS POINT

GOOD LUCK FINDING IT!!!!

Dave Strubbe k8zk/4

----- Original Message -----
From: Ralph Wallio, W0RPK
To: GPSL
Sent: Saturday, February 25, 2006 1:58 PM
Subject: [GPSL] UX-7 CW telemetry may prove vital

UX-7 data on FINDU and APRSWORLD has not updated since ~44kft ascending.
30m telemetry may be required for recovery. Please report decoded telemetry
here on GPSL so we will have a position report at landing. UX-7 now at
~16kft descending.

-w0rpk

SPONSORED LINKS Hobby and craft supply Craft hobby Ham radio

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b.. To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

c.. Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.

2031. UX-7 has landed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 19:31:19 UTC
From: Ralph Wallio, W0RPK
Topic: 2031 Message: 2031

650.6M (2134ft ASL)
36N08.853x
082W26.8097

Continuing to hear and copy weak CW.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2032. Re: [GPSL] UX-7 has landed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 19:42:36 UTC
From: wb8elk@aol.com
Topic: 2031 Message: 2032

Thanks Ralph,

I've phoned your position to the UTARC chase crew and they are on their way to that spot.

73s de Bill WB8ELK

The CW was weak in Huntsville, AL but was strong via the N3FI internet radio in MD.

2033. UX-7 APRS has come back on

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 20:46:40 UTC
From: wb8elk@aol.com
Topic: 2033 Message: 2033

Apparently the APRS transmitter got too cold and has now warmed back up...it's now transmitting again if you check FindU, you'll see it right at the HF position that W0RPK sent earlier.

It's up on a mountain in a Wilderness area overlooking Erwin/Banner, NC....looks like they can get within a half mile of it though.

- Bill WB8ELK

2034. WB8ELK PSK31 testing this afternoon on 20 meters Pse QSL if heard

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 21:22:34 UTC
From: wb8elk@aol.com
Topic: 2034 Message: 2034

I will have my PSK31 signal on 14.0625 MHz today from 3:21 CST until about 5:00 pm CST, maybe later....if anyone hears it, please email me at : _wb8elk@..._ (mailto:wb8elk@...)

- Bill WB8ELK

2035. UX-7 parachute can be seen but going to tough to get to

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 21:54:19 UTC
From: wb8elk@aol.com
Topic: 2035 Message: 2035

David KE4FGW called and said from the highway he can see the orange parachute near the top of the mountain across the river (with white water rapids no less - you can see the rapids on the aerial photo)...it's way up on a tree.

They are contacting the owner of a private road that gets within a half mile on the payload side of the river but it will still be a very tough hike.

- Bill WB8ELK

2036. Re: [GPSL] WB8ELK PSK31 testing this afternoon on 20 meters Pse QSL if heard

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-25 23:29:32 UTC
From: Mark Garrett
Topic: 2034 Message: 2036
Attachments: 1 described; binary payloads are missing from this source WARC

```
Bill:
Is it still on???

Mark
At 03:22 PM 2/25/2006, you wrote:

>I will have my PSK31 signal on 14.0625 MHz today from 3:21 CST until about
>5:00 pm CST, maybe later....if anyone hears it, please email me at
>: <mailto:wb8elk@...>wb8elk@...
>
>- Bill WB8ELK
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby
&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w
3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>Ham
>radio
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.
> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------
>
```

>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 268.1.0/269 - Release Date: 2/24/2006

2037. WB8ELK balloon launch scrubbed for today (Sunday) rescheduled for Mar 3 4 or 5

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-26 20:14:15 UTC
From: wb8elk@aol.com
Topic: 2037 Message: 2037

Beautiful sunny day....beautiful gusty sunny day...current winds are 15 to 25 with 30 mph gusts....great kite flying weather.

I'll make my next attempt starting Friday, March 3rd at noon CST....with backup dates of Saturday March 4 and Sunday March 5.

http://www.wb8elk.com (http://www.wb8elk.com)

- Bill WB8ELK

2038. [Fwd: Re: [UTARC Chat] UX-7 Deep Recovery Team]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-26 20:44:54 UTC
From: David Hoffman
Topic: 2038 Message: 2038

Dan and the team of payload recovery bandits are making there way along side the west bank of the Nolichucky River just south of where UX-7 is located. They were passing the Devil's Looking Glass at around 3:08 PM. They still have to climb the mountain and return by sunset. Good Luck!

David Hoffman - KE4FGW

>
> Dan and crew left Knoxville around 10 AM. They have arrived on the sceen
> at the spot along TN81 that you can visually see the parachute from. From
> here they will plot out a plan and attemp the recovery of UX-7. Sounds
> like they may head south to S. Indian Creek Rd and go in that way. From
> the end of this lady's driveway, the payload is approx. 0.8 of a mile
> away. They'll have some heavy hiking to do as the payload sits on another
> ridge to the north of this one they are going to hike up on with a valley
> and a creek between the two. Let's hope they don't run out of daylight
> hours.

David Hoffman - KE4FGW

> _____
> chat site list
> chat@...
> http://deathstar.asa.utk.edu/mailman/listinfo/chat
_____ chat site list chat@...
http://deathstar.asa.utk.edu/mailman/listinfo/chat

2039. [Fwd: [UTARC Chat] UX-7 Deep Recovery Team]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-26 20:44:27 UTC
From: David Hoffman
Topic: 2039 Message: 2039

Dan and crew left Knoxville around 10 AM. They have arrived on the sceen at the spot along TN81 that you can visually see the parachute from. From here they will plot out a plan and attemp the recovery of UX-7. Sounds like they may head south to S. Indian Creek Rd and go in that way. From the end of this lady's driveway, the payload is approx. 0.8 of a mile away. They'll have some heavy hiking to do as the payload sits on another ridge to the north of this one they are going to hike up on with a valley and a creek between the two. Let's hope they don't run out of daylight hours.

David Hoffman - KE4FGW

_____ chat site list chat@...
http://deathstar.asa.utk.edu/mailman/listinfo/chat

2040. Re: [GPSL] WB8ELK balloon launch scrubbed for today (Sunday) rescheduled for Mar 3 4 or 5

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-26 22:38:44 UTC
From: Mark Garrett
Topic: 2037 Message: 2040
Attachments: 1 described; binary payloads are missing from this source WARC

Bill:

If it looks like a real go on Friday the 3rd send me an e-mail at the
following address if you get it off the ground:

markgarrett@...

That is my work e-mail. Drop me a line there and I will try and break away
to monitor.

Mark

At 02:14 PM 2/26/2006, you wrote:

>Beautiful sunny day....beautiful gusty sunny day...current winds are 15 to
>25 with 30 mph gusts....great kite flying weather.
>
>I'll make my next attempt starting Friday, March 3rd at noon CST....with
>backup dates of Saturday March 4 and Sunday March 5.
>
><http://www.wb8elk.com>http://www.wb8elk.com
>
>
>- Bill WB8ELK
>
>
>
>SPONSORED LINKS
><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>Hobby
>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby
&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>Craft
>hobby
><http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w
3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>Ham
>radio
>
>
>----------
>YAHOO! GROUPS LINKS
>
> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.

> *
> * To unsubscribe from this group, send an email to:
> *
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>GPSL-unsubscribe@yahoogroup
s.com
>
> *
> * Your use of Yahoo! Groups is subject to the
> <http://docs.yahoo.com/info/terms/>Yahoo! Terms of Service.
>
>
>----------
>
>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.375 / Virus Database: 268.1.0/269 - Release Date: 2/24/2006

2041. UX-7 Deep Recovery Team

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-27 02:50:03 UTC
From: David Hoffman
Topic: 2041 Message: 2041

At around 4:50 PM EST, Dan and the group were heading back down from the site of the payload without the payload. They did however put an eyeball on it but just couldn't get to it. They got up to almost right underneath the payload and made several attempts at it but was running out of daylight hours to safely return. The payload is up very high in some very tall trees. They will have to try again at some later date. Perhaps this Saturday, they will try again. With some climbing equipment, maybe they will have better luck next time.

David Hoffman - KE4FGW

2042. Re: [GPSL] UX-7 Deep Recovery Team

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-27 07:19:01 UTC
From: Don KA0JLF
Topic: 2041 Message: 2042

We had a similar experience last year. Ours landed
about 80 ft in the top of a tree. We got very close
with a slingshot several times. As I remember I think
the tree limb finally gave way after the parachute had
snapped open on it after several hours. I'm not sure
th e line didn't cut throught the limb and then the
parachute opening broke the branch. There is a slide
show of the sight (across the river from Fort Riley)
at: http://www.habitatskylab.org/HS05D/slideshow/

No I'm not a tree hugger, we want to get an idea of
the tree size. It was a BIG tree. ;-)

Hope you have lots of luck getting it back.

73
Don KA0JLF
HABITAT SkyLab
--- David Hoffman <ke4fgw@...> wrote:

> At around 4:50 PM EST, Dan and the group were
> heading back down from the
> site of the payload without the payload. They did
> however put an eyeball
> on it but just couldn't get to it. They got up to
> almost right underneath
> the payload and made several attempts at it but was
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> tall trees. They will have to try again at some
> later date. Perhaps this
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> equipment, maybe they
> will have better luck next time.
>
> David Hoffman - KE4FGW
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>

>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2043. Fw: Balloon Conference Announcement and Call for Papers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-28 15:26:35 UTC
From: Ralph Wallio, W0RPK
Topic: 2043 Message: 2043

----- Original Message -----
From: "William Byrd" <wbyrd@...>
To: <sg-dir@...>
Sent: Tuesday, February 28, 2006 9:11 AM
Subject: Balloon Conference Announcement and Call for Papers

Announcing
SmallStat 2006
A conferenece on Small Balloon Science, Technology and Operations
18 - 19 September 2006

Conference Web Site: http://www.ia.spacegrant.org/smallstat/

This event is open to Researchers, Students, Amateur Radio
balloonists or anyone interested in small balloon
activities. Distinguished speakers from Government (including FAA,
NASA, NRL and Air Force), Industry, and Academe will present in
plenary session as well as invited speakers in technical sessions
(see web site for Call for Papers). Please broadly distribute this
announcement and encourage abstract submissions.

The event includes a STUDENT POSTER SESSION with a top prize of
$1000, $750 2nd place, and $250 3rd place. A huge corporate
recruiting event with over 200 companies is held in conjunction with
this event.

I hope to see you and your colleagues there.

Bill Byrd
Conference Host

SmallStat 2006 is an activity of the Great Midwestern Space Grant region

2044. Fwd: Balloon Conference Announcement and Call for Papers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-28 15:34:37 UTC
From: mconner1@gmail.com
Topic: 2044 Message: 2044

Announcing
SmallStat 2006
A conferenece on Small Balloon Science, Technology and Operations
18 - 19 September 2006

Conference Web Site: http://www.ia.spacegrant.org/smallstat/

This event is open to Researchers, Students, Amateur Radio balloonists or anyone interested in small balloon activities. Distinguished speakers from Government (including FAA, NASA, NRL and Air Force), Industry, and Academe will present in plenary session as well as invited speakers in technical sessions (see web site for Call for Papers). Please broadly distribute this announcement and encourage abstract submissions.

The event includes a STUDENT POSTER SESSION with a top prize of $1000, $750 2nd place, and $250 3rd place. A huge corporate recruiting event with over 200 companies is held in conjunction with this event.

I hope to see you and your colleagues there.

Bill Byrd
Conference Host

SmallStat 2006 is an activity of the Great Midwestern Space Grant region

2045. Re: [KNSP] RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-02-28 16:11:44 UTC
From: Ryan Butler
Topic: 2021 Message: 2045

The next break is at a case (18 pieces) which makes it $60/balloon

If anyone is close to Kaymont and could pick them up, maybe they would be better at ordering and distributing to save on multiple shippings, otherwise, for an order this large I'd need to see some or all of the money up front as I don't have a grand or more (with shipping) to float for this.

Thanks

Ryan, KB0JQO

On Fri, 2006-02-24 at 12:12 -0700, Stephanie Steele wrote:
> Can someone check and see where there might be a price break? Perhaps
> at
> a case quantity there might be some signifigant savings.
>
> Stephanie
>
> Hap Griffin wrote:
>
> >----- Original Message -----
> >From: "Ryan Butler" <rbutler@...>
> >To: <GPSL@yahoogroups.com>
> >Cc: <KNSP@yahoogroups.com>
> >Sent: Friday, February 24, 2006 11:38 AM
> >Subject: [KNSP] RE: [GPSL] Kaymont 1200g
> >
> >
> >
> >
> >>6 is the minimum direct from Kaymont, SS will sell single unit
> >>quantities @ $110 each
> >>
> >>The minimum of 6 from Kaymont is $70 each
> >>
> >>Neither include shipping.
> >>
> >>We're looking at needing 2.
> >>
> >>Sounds like we could get an order for at least 10?
> >>
> >>Ryan
> >>
> >>
> >>

> >
> >I'm good for 2 @ $70 each plus shipping.
> >
> >Hap Griffin, WZ4O (good in the callbook)
> >South Carolina
> >
> >
> >
> >
> >List owner: KNSP-owner@yahoogroups.com
> >Group URL: http://groups.yahoo.com/group/KNSP
> >wner: KNSP-owner@yahoogroups.com
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> SPONSORED LINKS
> Hobby and craft supply
> Craft hobby
> Ham radio
>
>
> ~~~~~~
> YAHOO! GROUPS LINKS
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> 1. Visit your group "GPSL" on the web.
>
> 2. To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> ~~~~~~
>

2046. Re: [Balloon_Track] Near Space modeling

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-01 05:58:55 UTC
From: Mike Manes
Topic: 2046 Message: 2046

Hi Mike,

One of the most vexing aspects of high altitude ballooning is the
Dreaded Post Burst Chaos (PBC), which so far has evaded canonical
explanation, altho theories and some empirical "fixes" abound.

In worst case PBC, we have got on-board images of the parachute
BELOW the horizon, and there have been several instances of payload
line separation due to overstress as well. Even JPL has been bit
by PBC. Jack Jones told me that it got so bad on one flight that
the bottom of the payload string actually fell down into the top
of the parachute canopy, and whole shebang made a sizable dent in
the ground on landing.

My theory is that it's related to parachute instability at high
altitude, possibly due to transonic flow thru the vent and exacerbated
by balloon shards tipping the 'chute. High-Mach drag rise over "boxy"
payloads may also contribute, and putting the lowest-drag payload at
the bottom to serve as sort of a plumb bob seems to help. And releasing
the balloon lift line IMMEDIATELY on burst also seems very helpful,
as revealed on EOSS-101.

So if you have access to high-Mach aerodynamic modelling, you might
consider taking that on.

73 de Mike Manes W5VSI
EOSS

Michael Bartmess wrote:
> I'm going to be doing some modeling of "Near Space" platforms' tracks
> and will probably be using STK or something like it for a "host"
> environment for the models. Near space assets may have some
> propulsion or may be a free-floating balloon. I'd like to hear from
> anyone who has ideas on what are the most important affects to be
> modeled. In the simplest model, just addition of a platform velocity
> vector and the wind velocity vector could be used.
>
> If the near space asset were to have propulsion, then a 1st order drag
> model would be relevant probably. Does anybody know of any open
> source model data that might be used to represent drag for classes of
> aircraft, gliders, UAVs, parafoils, etc.
>
> I'm a satellite guy, so I'm stepping into something new here. My
> models don't need to be too high fidelity, since I'll be employing
> this modeling to examine conops in fictitious scenarios.
>

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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2047. [Fwd: Balloon Conference Announcement and Call for Papers]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-01 06:09:35 UTC
From: Mike Manes
Topic: 2047 Message: 2047

Hi folks,

Thought some of us might be interested in this conference. Not
sure where it's to be held, but suspect IA State campus.

73 de Mike W5VSI
Prez EOSS

-------- Original Message --------
Subject: Balloon Conference Announcement and Call for Papers
Date: Tue, 28 Feb 2006 09:11:36 -0600
From: William Byrd <wbyrd@...>
To: sg-dir@...

Announcing
*SmallStat 2006
*A conference on Small Balloon Science, Technology and Operations
18 - 19 September 2006

Conference Web Site: http://www.ia.spacegrant.org/smallstat/

This event is open to Researchers, Students, Amateur Radio balloonists
or anyone interested in small balloon activities. Distinguished
speakers from Government (including FAA, NASA, NRL and Air Force),
Industry, and Academe will present in plenary session as well as invited
speakers in technical sessions (see web site for Call for Papers).
Please broadly distribute this announcement and encourage abstract
submissions.

The event includes a *STUDENT POSTER SESSION* with a top prize of $1000,
$750 2nd place, and $250 3rd place. A huge corporate recruiting event
with over 200 companies is held in conjunction with this event.

I hope to see you and your colleagues there.

Bill Byrd
Conference Host

SmallStat 2006 is an activity of the Great Midwestern Space Grant region

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2048. Re: [KNSP] RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-02 16:57:13 UTC
From: Stephanie Steele
Topic: 2021 Message: 2048

I'm sure that TVNSP will jump in for some to help make the 18 quantity. How about it TVNSP members, anyone want to get some at $60 each? Ryan, put me down for two and send me me the PayPal info or however you want payment.

Stephanie

Ryan Butler wrote:

>The next break is at a case (18 pieces) which makes it $60/balloon
>
>If anyone is close to Kaymont and could pick them up, maybe they would
>be better at ordering and distributing to save on multiple shippings,
>otherwise, for an order this large I'd need to see some or all of the
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2049. WB8ELK balloon launch now scheduled for Saturday March 4th at noon CST

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-02 20:39:29 UTC
From: wb8elk@aol.com
Topic: 2049 Message: 2049

The surface wind forecast is better for Saturday than for Friday.

So....the launch is now scheduled for Saturday, March 4th at noon CST.

WB8ELK-11 on 14.0625 MHz PSK31
WB8ELK-12 on 144.39 MHz APRS (if weight permits)

Launchsite: Falkville, AL

-Bill WB8ELK

2050. RE: [KNSP] RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-03 11:54:01 UTC
From: Roger Hammond
Topic: 2021 Message: 2050

Ryan,

I'd be happy to send you the $$ up front for 2 plus shipping. Just let me know what type of payment and where to send.

Rog - KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Ryan Butler
Sent: Tuesday, February 28, 2006 10:12 AM
To: GPSL@yahoogroups.com
Cc: Hap Griffin; KNSP@yahoogroups.com
Subject: Re: [KNSP] RE: [GPSL] Kaymont 1200g

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>

Yahoo! Groups Links

2051. Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-04 16:33:41 UTC
From: Ryan Butler
Topic: 2051 Message: 2051

Haven't forgot about everyone, I'll send out an email about getting balloons on Sunday hopefully. Just a note to let eveyone know I didn't disappear.

Thanks for all the input.

Ryan Butler
KB0JQO

2052. RE: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-04 17:55:15 UTC
From: Doug Loughmiller
Topic: 2051 Message: 2052

QSL Ryan,

ARBONET will take two balloons.

Doug

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ryan Butler
Sent: Saturday, March 04, 2006 10:34 AM
To: gpsl@yahoogroups.com; knsp@yahoogroups.com
Subject: [GPSL] Balloons

Haven't forgot about everyone, I'll send out an email about getting balloons on Sunday hopefully. Just a note to let eveyone know I didn't disappear.

Thanks for all the input.

Ryan Butler
KB0JQO

YAHOO! GROUPS LINKS

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* To unsubscribe from this group, send an email to:
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<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

2053. WB8ELK balloon will launch at 1:45 pm CST - payload change !!!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-04 19:03:22 UTC
From: wb8elk@aol.com
Topic: 2053 Message: 2053

Launch at 1:45 pm....however, the PSK31 payload has a problem, so instead I'm flying the WB8ELK-12 APRS payload on 144.39.

Ed in Bermuda....It will probably be sunrise before the payload gets within 2 meter range of you.

http://map.findu.com/wb8elk-12

- Bill WB8ELK

2054. Re: [GPSL] WB8ELK balloon will launch at 1:45 pm CST - payload change !!!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-04 20:10:58 UTC
From: Mark Conner
Topic: 2053 Message: 2054
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2055. The WB8ELK/ES-OS balloon has lifted off from Falkville AL Sat Mar 4 at 2 pm CST

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-04 20:37:00 UTC
From: wb8elk@aol.com
Topic: 2055 Message: 2055

The WB8ELK-12 zero pressure ES-OS balloon lifted off at 1954z during a brief lull in the wind gusts....we inflated it inside the barn and brought it outside covered with a plastic drop cloth....winds were actual very light at liftoff as I can attest from the rope burn on my finger when I expected to go one way and it decided to go the other.

It's ascending around 660 ft/min at the moment.

http://map.findu.com/wb8elk-12

There is no PSK31 on this flight as the payload has intermittent problems.

The 100 foot long flight train configuration consists of a 1 pound sugar cube ballast at the end....a float 50 feet up the line and then the payload. It's hoped that it will splash down in the Ocean within digipeater range (reason for the 2 pm liftoff)...if the ballast works then we'll know if it's heard again by the digipeaters along the coast.

73s de Bill WB8ELK

This will be a long duration flight provided the balloon achieves float.

2056. WB8ELK-12 balloon has been found in a parking lot at a technical school in GA

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-05 06:08:44 UTC
From: wb8elk@aol.com
Topic: 2056 Message: 2056

As I was looking at the aerial photo of the coordinates that Sam KD4SHK emailed me from what he saw on the local APRS digis (lower than what showed up on FindU)....I saw that it appeared that the balloon had landed in a parking lot near a technical school south of Thomaston, GA.....a few minutes later, my cell phone rang and some very drunk students called me asking how much the Reward was.....they had just gotten back from a drag race and were very very drunk....from what little I could understand, they said the balloon (they called it a big- a@# trashbag) was tangled up in a tree and shredded but they found the payload sitting in the parking lot behind Flint Technical College south of Thomaston, GA (south of Atlanta).

Several drunk people passed the phone around and asked me questions about. Hopefully after the hangovers tomorrow, they'll call me back and I can arrange to retrieve it.

Last known coordinates very close to landing relayed by KD4SHK:

32d 51.680m
84d 19.030m
764 feet

73s de Bill WB8ELK

2057. Re: [KNSP] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-05 17:36:22 UTC
From: Ryan Butler
Topic: 2051 Message: 2057

Okay,

I poured over all the emails I had gotten on this and came up with the following:

Group
Balloons
Unit Price
Total
Contact
Email

CNNSP
2
$70.00
$140.00
rahammond@...
WZ4O
2
$70.00
$140.00
lgriffin@...

TVNSP
2
$70.00
$140.00
kc7dba@...
ARBONET
2
$70.00
$140.00
W5BL@...
Mike
1
$70.00
$70.00
upand_at_them@...
CIBE
2
$70.00
$140.00
rbutler@...

11
$70.00

$770.00

We haven't reached the 18 break point yet. Also not included is
shipping to your location or the shipping to get the balloons to me.
I'm guessing on such a large order of balloons it'll raise the price of
each balloon a couple bucks, but once I know how many we're getting I'll
ask Kaymont for a shipping quote and relist the updated costs. I
haven't decided if it'll be actual cost or flat rate for the reship out.
On such a large order maybe Kaymont will throw in free shipping.

Anyhow, we need a commitment of 7 more to get the additional price
break, if I missed your email or if you think you could do with more,
let me know!

Thanks

Ryan, KB0JQO

On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
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> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
>
>
>
> SPONSORED LINKS
> Ham radio antenna
> Ham radio
> Ham radio sales
> Ham radio outlet
> Ham radio store
>
>
> ~---~
> YAHOO! GROUPS LINKS
>
> 1. Visit your group "KNSP" on the web.

>
> 2. To unsubscribe from this group, send an email to:
> KNSP-unsubscribe@yahoogroups.com
>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> --
>

2058. RE: [GPSL] Re: [KNSP] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-05 18:36:33 UTC
From: Doug Loughmiller
Topic: 2051 Message: 2058

Hey Ryan,

Thanks for the feedback on the balloons. One quick question, I thought is we reached a quantity buy of 18 balloons the price dropped to $60 per balloon. Did I miss something? In any case, let me know where we need to send the check to once we have an understanding of the shipping costs.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ryan Butler
Sent: Sunday, March 05, 2006 11:36 AM
To: gpsl@yahoogroups.com
Cc: knsp@yahoogroups.com
Subject: [GPSL] Re: [KNSP] Balloons

Okay,

I poured over all the emails I had gotten on this and came up with the following:

Group
Balloons
Unit Price
Total
Contact
Email

CNNSP
2
$70.00
$140.00
rahammond@...
WZ4O
2
$70.00
$140.00
lgriffin@...

TVNSP
2
$70.00
$140.00

kc7dba@...
ARBONET
2
$70.00
$140.00
W5BL@...
Mike
1
$70.00
$70.00
upand_at_them@...
CIBE
2
$70.00
$140.00
rbutler@...

11
$70.00
$770.00

We haven't reached the 18 break point yet. Also not included is
shipping to your location or the shipping to get the balloons to me.
I'm guessing on such a large order of balloons it'll raise the price of
each balloon a couple bucks, but once I know how many we're getting I'll
ask Kaymont for a shipping quote and relist the updated costs. I
haven't decided if it'll be actual cost or flat rate for the reship out.
On such a large order maybe Kaymont will throw in free shipping.

Anyhow, we need a commitment of 7 more to get the additional price
break, if I missed your email or if you think you could do with more,
let me know!

Thanks

Ryan, KB0JQO

On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
> Haven't forgot about everyone, I'll send out an email about getting
> balloons on Sunday hopefully. Just a note to let eveyone know I
> didn't
> disappear.
>
> Thanks for all the input.
>
> Ryan Butler
> KB0JQO
>
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP

> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
>
>
>
> SPONSORED LINKS
> Ham radio antenna
> Ham radio
> Ham radio sales
> Ham radio outlet
> Ham radio store
>
>
> ~~~~~~
> YAHOO! GROUPS LINKS
>
> 1. Visit your group "KNSP" on the web.
>
> 2. To unsubscribe from this group, send an email to:
> KNSP-unsubscribe@yahoogroups.com
>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> ~~~~~~
>

SPONSORED LINKS

Hobby
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+cra
ft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
and craft supply

Craft
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w
2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ> hobby

Ham
<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=
Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw> radio

~~~~~

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on
the web.
~~~~~

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

2059. RE: [KNSP] RE: [GPSL] Kaymont 1200g

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-06 14:36:27 UTC
From: PAUL VERHAGE
Topic: 2021 Message: 2059

So you're ready for us to send money for the balloons?

Paul

>>> rahammond@... 3/3/2006 4:54:01 am >>>
Ryan,

I'd be happy to send you the $$ up front for 2 plus shipping. Just let
me
know what type of payment and where to send.

Rog - KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of
Ryan Butler
Sent: Tuesday, February 28, 2006 10:12 AM
To: GPSL@yahoogroups.com
Cc: Hap Griffin; KNSP@yahoogroups.com
Subject: Re: [KNSP] RE: [GPSL] Kaymont 1200g

The next break is at a case (18 pieces) which makes it $60/balloon

If anyone is close to Kaymont and could pick them up, maybe they would
be better at ordering and distributing to save on multiple shippings,
otherwise, for an order this large I'd need to see some or all of the
money up front as I don't have a grand or more (with shipping) to
float
for this.

Thanks

Ryan, KB0JQO

On Fri, 2006-02-24 at 12:12 -0700, Stephanie Steele wrote:
> Can someone check and see where there might be a price break?
Perhaps
> at
> a case quantity there might be some signifigant savings.
>
> Stephanie
>
> Hap Griffin wrote:
>
> >----- Original Message -----
> >From: "Ryan Butler" <rbutler@...>
> >To: <GPSL@yahoogroups.com>

> >Cc: <KNSP@yahoogroups.com>
> >Sent: Friday, February 24, 2006 11:38 AM
> >Subject: [KNSP] RE: [GPSL] Kaymont 1200g
> >
> >
> >
> >
> >>6 is the minimum direct from Kaymont, SS will sell single unit
> >>quantities @ $110 each
> >>
> >>The minimum of 6 from Kaymont is $70 each
> >>
> >>Neither include shipping.
> >>
> >>We're looking at needing 2.
> >>
> >>Sounds like we could get an order for at least 10?
> >>
> >>Ryan
> >>
> >>
> >>
> >
> >I'm good for 2 @ $70 each plus shipping.
> >
> >Hap Griffin, WZ4O (good in the callbook)
> >South Carolina
> >
> >
> >
> >
> >List owner: KNSP-owner@yahoogroups.com
> >Group URL: http://groups.yahoo.com/group/KNSP
> >wner: KNSP-owner@yahoogroups.com
> >Group URL: http://groups.yahoo.com/group/KNSP
> >
> >Yahoo! Groups Links
> >
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> >
> >
> >
> >
>
> --
> Stephanie
>
> ********************************

>
> Fate, luck, and chance are easy prey for preparation.
>
> ******************************
>
> Friends are quiet angels who lift us to our feet when our wings have
> trouble remembering how to fly.
>
> ******************************
>
> The information contained in this e-mail message is private and
> confidential information intended only for the use of the individual
> or entity to whom it is addressed. If the reader of this e-mail
> message is not the intended recipient you are notified any
disclosure,
> dissemination, distribution, copying or the taking of any action
based
> upon the information contained in this message is strictly
prohibited.
>
>
> de recta non tolerandum sunt
>
> ******************************
>
> ....and for those who just can not get enough tag lines:
>
> IMPORTANT: This email is intended for the use of the
> individual addressee(s) named above and may contain
> information that is confidential privileged or unsuitable
> for overly sensitive persons with low self-esteem, no
> sense of humor or irrational religious beliefs. If you are
> not the intended recipient, any dissemination, distribution
> or copying of this email is not authorized (either explicitly
> or implicitly) and constitutes an irritating social faux pas.
> Unless the word absquatulation has been used in its
> correct context somewhere other than in this warning,
> it does not have any legal or grammatical use and may
> be ignored. No animals were harmed in the transmission
> of this email, although the kelpie next door is living on
> borrowed time, let me tell you.
>
> Those of you with an overwhelming fear of the unknown
> will be gratified to learn that there is no hidden message
> revealed by reading this warning backwards, so just ignore
> that Alert Notice from Microsoft. However, by pouring a
> complete circle of salt around yourself and your computer
> you can ensure that no harm befalls you and your pets.
> If you have received this email in error, please add some
> nutmeg and egg whites, whisk and place in a warm oven

> for 40 minutes
>
>
>
>
> SPONSORED LINKS
> Hobby and craft supply
> Craft hobby
> Ham radio
>
>
>

> YAHOO! GROUPS LINKS
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>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
>

>

Yahoo! Groups Links

Yahoo! Groups Links

2060. RE: [GPSL] Re: [KNSP] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-06 15:20:34 UTC
From: Ryan Butler
Topic: 2051 Message: 2060

That is true the price does drop to 60 for quantities of 18 or more, however we are at a quantity of 11 right now, so the price reflects the 6-17 price break. If we get enough interest to hit the 18 mark, The price will reflect that.

Ryan

On Sun, 2006-03-05 at 12:36 -0600, Doug Loughmiller wrote:
> Hey Ryan,
>
>
>
> Thanks for the feedback on the balloons. One quick question, I thought
> is we reached a quantity buy of 18 balloons the price dropped to $60
> per balloon. Did I miss something? In any case, let me know where we
> need to send the check to once we have an understanding of the
> shipping costs.
>
>
>
> 73,
>
>
>
> Doug, W5BL
>
>
>
>
>
>
>
> _____
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Ryan Butler
> Sent: Sunday, March 05, 2006 11:36 AM
> To: gpsl@yahoogroups.com
> Cc: knsp@yahoogroups.com
> Subject: [GPSL] Re: [KNSP] Balloons
>
>
>
>
> Okay,
>
> I poured over all the emails I had gotten on this and came up with the

> following:
>
>
> Group
> Balloons
> Unit Price
> Total
> Contact
> Email
>
> CNNSP
> 2
> $70.00
> $140.00
> rahammond@...
> WZ4O
> 2
> $70.00
> $140.00
> lgriffin@...
>
> TVNSP
> 2
> $70.00
> $140.00
> kc7dba@...
> ARBONET
> 2
> $70.00
> $140.00
> W5BL@...
> Mike
> 1
> $70.00
> $70.00
> upand_at_them@...
> CIBE
> 2
> $70.00
> $140.00
> rbutler@...
>
>
>
>
>
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>
>
>

> 11
> $70.00
> $770.00
>
>
>
>
> We haven't reached the 18 break point yet. Also not included is
> shipping to your location or the shipping to get the balloons to me.
> I'm guessing on such a large order of balloons it'll raise the price
> of
> each balloon a couple bucks, but once I know how many we're getting
> I'll
> ask Kaymont for a shipping quote and relist the updated costs. I
> haven't decided if it'll be actual cost or flat rate for the reship
> out.
> On such a large order maybe Kaymont will throw in free shipping.
>
> Anyhow, we need a commitment of 7 more to get the additional price
> break, if I missed your email or if you think you could do with more,
> let me know!
>
> Thanks
>
> Ryan, KB0JQO
>
>
> On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
> > Haven't forgot about everyone, I'll send out an email about getting
> > balloons on Sunday hopefully. Just a note to let eveyone know I
> > didn't
> > disappear.
> >
> > Thanks for all the input.
> >
> > Ryan Butler
> > KB0JQO
> >
> >
> >
> > List owner: KNSP-owner@yahoogroups.com
> > Group URL: http://groups.yahoo.com/group/KNSP
> > wner: KNSP-owner@yahoogroups.com
> > Group URL: http://groups.yahoo.com/group/KNSP
> >
> >
> >
> >
> > SPONSORED LINKS
> > Ham radio antenna

> > Ham radio
> > Ham radio sales
> > Ham radio outlet
> > Ham radio store
> >
> >
> >
> ---
> > YAHOO! GROUPS LINKS
> >
> > 1. Visit your group "KNSP" on the web.
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> > 2. To unsubscribe from this group, send an email to:
> > KNSP-unsubscribe@yahoogroups.com
> >
> > 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > Service.
> >
> >
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> ---
> >
>
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>
> ---
> YAHOO! GROUPS LINKS
>
> 1. Visit your group "GPSL" on the web.
>
> 2. To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> ---
>
>

2061. [Fwd: [UTARC Chat] UX-7 Recory Attement #4]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-06 18:24:48 UTC
From: David Hoffman
Topic: 2061 Message: 2061

Bill, I heard about your balloon flight. But I was on top of Unaka Mountain trying to retrieve the UX-7 payload from last weekend. Below is the story:

David Hoffman - KE4FGW

---------- Original Message ----------
Subject: [UTARC Chat] UX-7 Recory Attement #4
From: "Jonathan" <jculver1@...>
Date: Mon, March 6, 2006 6:06 pm
To: "UTARC MAIL LIST" <chat@...>

Friday:
Got gear together and ready to head out on Saturday. Made a few last phone calls to see about securing a raft from a Contact that Greg had made in Bristol.

Saturday:
Well I had secured my own vehicle and Tom Ogle, his son (Thomas) and David Hoffman
Set out early to find a place to camp and size up the payload once again. As they pulled off the road to spot the pay load and gaze at it with binoculars, one of the Unaka Mountain Search and Rescue Team vehicles pulled. A man stepped out and was looking with his binoculars also. Well Tom and David's Curiosity got the better of them and they walked over to the man and asked, " what are u looking for?" Sure enough he was looking for what they were looking for the payload.
After some Talking Tom and David not only secured us a raft and the County's search and Rescue but found us a camp site right behind the logging company, witch also conveniently was where the Search and REscue team launches there raft from.
So i arrived about 5ish and meet Tom, his son and David at the barbuque restaurnt. And we all had dinner. And for those how attempted the recovery the weekend before, the barbaque is good and it wasn't just our hunger speaking. We headed back to camp where i met the Duck! (it was actually a canidiain goose but we just called it a duck so much easier). This duck was insane it tried to attack my car and it tired to eat Thomas and almost ran off with Davids shoe. But we managed to survive that and once we got to our camp site the duck left us alone as long as we didn't get to close to it again. ONce back at our Camp we built a fire and stayed in front of the fire until we decided to head to bed. (time unknown) We believe that it got down in the teens Saturday night but we all survived the dreaded cold.

Sunday
WE got up and had some pop tarts and frozen granola bars that we heated with the fire that Tom had gotten up early to build. (before 7am) The Search and Rescue Team came right around 8am as they had promised. The also brought us some coffee and some busicuts from hardies. Well as part of the team was getting ready the Older lady (the mom of the team) was attacked by our friendly neighborhood duck. several phrases where repeated like "Ill Kick your But!!!", "Dont do it!!", "no No NO NO!!!" all of these were accompanied by a moving foot and the 1st phrase was repeated more than the others. The duck finally left her alone.
We started off at about 830 across the river fully suited and everything, Life jackets, and Helmets, and oars. For most of the team this was our 1st White Water Rafting Experience. They also explained to us alot of the dangers in the river and really made me hope that when mike when last Tuesday that they at least had life jackets on. This apparently isn't a very friendly river and by the looks of the rocks as we rowed across i would agree with them on that.
The left us one of there men and we started up the steep steep trail to the payload. I will note that the path from the Hillmans Property was alot easier to access the payload then the way we went. We where having to us trees to support our selves up the hill. and it was lot harder on our ankles and knees than the other way.
2hours later we got to the payload and started to attempt to shoot a line w/ sling shoots at/through/near the payload and the parachute. We got a line thought the hoop of the parachute but when we tried to bring a stronger line thought it it would pass through and after several attempts with the cord provided we snapped the line. We then tried to secure a line in a tree so that Tom could use some of his equipment to climb up his repleing rope. Same thing happened. By this time we where all tired and Tom had somewhere else that he Had to be. We tried for about 3-4 Hours to get it down and we where unsuccessful. We headed back to our pick up point and radioed in for our raft to come back and get up.
The Unaka Mountain Search and Rescue Team are all licensed HAMs and they use HAM frequencies for a lot of there operations so that they don't tie up the public frequencies (sheriff, fire, etc.) So as we where heading up the mountain they asked us to check in so we all checked in as we headed up the mountain and there were a few people who actually got back on the repeater and said oh hey what can we do to help. well to bad they where not willing to bring us a lunch on the hillside but we all got a few qso's in and had some fun.

Things for Next time (if there is one)

* A Bow and arrow w/ a line attached
o line that is high test line
* braided nylon rope
o there was some nylon sting there that was just twisted and it would get caught in any little thing and it tangled up like non other
* Possibly some type of fire arm to shoot down the payload by either destroying the parachute or hitting the line
o several safety measures would need to be put into place for

this one.
* climb the trees and use that for a better vantage pt. to either
sling shot a line across or cut a limb off.
* cut the branch off.
o we rand out of time but if u could get a line across the
branch up there and use the little saw that is in the stump in
that area u could possibly cut the branch down. yet again u
will want to use braided nylon rope.

If we do this again it needs to be something that we plan on spending all
day on. bring in a packed launch, water to last the day, and a lot of
weights or rocks if u are going to use a sling shot. I would NOT CROSS
THE RIVER WITHOUT the help of trained knowledgeable people, whither it be
the Unaka Mt. Search and Rescue Team, or someone else!! THE RIVER IS VERY
DANGEROUS!!

We didn't recover the payload but we did have some fun and we definitely
made some contacts. The search and rescue team has been challenged to get
it down but they have also offered to take us across the river again.
possibly at a different point i hope. We left the area saying wow we hope
a nother one lands in this area. All the people were very friendly and
helpful once u convince them that u are not drug dealers. If anyone would
like to do it agian please let me know i would like to go up there again
its a fun but tough adventure. Let em know if u have any other questions.

Jonathan Culver
KI4GBV
UTARC President

---
chat site list
chat@...
http://deathstar.asa.utk.edu/mailman/listinfo/chat

2062. RE: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 04:46:48 UTC
From: Steve KA5YFC
Topic: 2051 Message: 2062

Habitat SkyLab will take seven which should bring the total to 18. This should get us the $60 price if I remember right. Let us know what the S/H is so we can get that figured in also.

Let me know where to send the monies. Do you take PayPal?

Steve
KA5YFC

2063. Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 06:04:40 UTC
From: Stephanie Steele
Topic: 2051 Message: 2063

Before you get this all wrapped up and an order placed, you might verify how many are wanted. I think you undercounted TVNSP as three of us (myself, Dan, and Jeff) spoke up for balloons for what I thought was a total of 6. With the others I have seen, and these seven, along with ours, you might end up at the next price break point (assuming there is one) with some luck. Ditto on the shipping.

Stephanie

Steve KA5YFC wrote:

>Habitat SkyLab will take seven which should bring the total to 18. This
>should get us the $60 price if I remember right. Let us know what the
>S/H is so we can get that figured in also.
>
>Let me know where to send the monies. Do you take PayPal?
>
>Steve
>KA5YFC
>
>
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

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de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

IMPORTANT: This email is intended for the use of the
individual addressee(s) named above and may contain
information that is confidential privileged or unsuitable
for overly sensitive persons with low self-esteem, no
sense of humor or irrational religious beliefs. If you are
not the intended recipient, any dissemination, distribution
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or implicitly) and constitutes an irritating social faux pas.
Unless the word absquatulation has been used in its
correct context somewhere other than in this warning,
it does not have any legal or grammatical use and may
be ignored. No animals were harmed in the transmission
of this email, although the kelpie next door is living on
borrowed time, let me tell you.

Those of you with an overwhelming fear of the unknown
will be gratified to learn that there is no hidden message
revealed by reading this warning backwards, so just ignore
that Alert Notice from Microsoft. However, by pouring a
complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

2064. Re: [tvnsp] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 12:51:04 UTC
From: Jeff Melanson
Topic: 2051 Message: 2064

Actually, I didn't order any. I already have balloons from last year.
But Dan did ask for two.

Jeff

Stephanie Steele wrote:

> Before you get this all wrapped up and an order placed, you might verify
> how many are wanted. I think you undercounted TVNSP as three of us
> (myself, Dan, and Jeff) spoke up for balloons for what I thought was a
> total of 6. With the others I have seen, and these seven, along with
> ours, you might end up at the next price break point (assuming there is
> one) with some luck. Ditto on the shipping.
>
> Stephanie
>
>
> Steve KA5YFC wrote:
>
> >Habitat SkyLab will take seven which should bring the total to 18. This
> >should get us the $60 price if I remember right. Let us know what the
> >S/H is so we can get that figured in also.
> >
> >Let me know where to send the monies. Do you take PayPal?
> >
> >Steve
> >KA5YFC
> >
> >
> >
> >
> >Yahoo! Groups Links
> >
> >
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> >
>
> --
> Stephanie
>
> ********************************
>

> Fate, luck, and chance are easy prey for preparation.
>
> ******************************
>
> Friends are quiet angels who lift us to our feet when our wings have
> trouble remembering how to fly.
>
> ******************************
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> upon the information contained in this message is strictly prohibited.
>
>
> de recta non tolerandum sunt
>
> ******************************
>
> ...and for those who just can not get enough tag lines:
>
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> individual addressee(s) named above and may contain
> information that is confidential privileged or unsuitable
> for overly sensitive persons with low self-esteem, no
> sense of humor or irrational religious beliefs. If you are
> not the intended recipient, any dissemination, distribution
> or copying of this email is not authorized (either explicitly
> or implicitly) and constitutes an irritating social faux pas.
> Unless the word absquatulation has been used in its
> correct context somewhere other than in this warning,
> it does not have any legal or grammatical use and may
> be ignored. No animals were harmed in the transmission
> of this email, although the kelpie next door is living on
> borrowed time, let me tell you.
>
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> will be gratified to learn that there is no hidden message
> revealed by reading this warning backwards, so just ignore
> that Alert Notice from Microsoft. However, by pouring a
> complete circle of salt around yourself and your computer
> you can ensure that no harm befalls you and your pets.
> If you have received this email in error, please add some
> nutmeg and egg whites, whisk and place in a warm oven
> for 40 minutes
>
>
>

>
> SPONSORED LINKS
> Space exploration
> <http://groups.yahoo.com/gads?t=ms&k=Space+exploration&w1=Space+exploration&w2=Photograph
hs&w3=Aerospace&c=3&s=55&.sig=IQ3FTC3woVVJlSJFUbnOvg>
> Photographs
> <http://groups.yahoo.com/gads?t=ms&k=Photographs&w1=Space+exploration&w2=Photographs&w3=
Aerospace&c=3&s=55&.sig=J1729j3vi-EZPrETp_W7FQ>
> Aerospace
> <http://groups.yahoo.com/gads?t=ms&k=Aerospace&w1=Space+exploration&w2=Photographs&w3=Ae
rospace&c=3&s=55&.sig=0f_bpP759yA0VzzU2jdZSw>
>
>
>
> ~~~~~~
> YAHOO! GROUPS LINKS
>
> * Visit your group "tvnsp <http://groups.yahoo.com/group/tvnsp>"
> on the web.
>
> * To unsubscribe from this group, send an email to:
> tvnsp-unsubscribe@yahoogroups.com
> <mailto:tvnsp-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ~~~~~~
>
>~~~~~~
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.375 / Virus Database: 268.2.0/275 - Release Date: 3/6/2006
>
>

2065. Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 14:31:04 UTC
From: Rochte, Robert
Topic: 2065 Message: 2065

Sky Diamond 9, a 2500 cubic foot solar tetroon constructed by fifth grade students at the Grosse Pointe Academy, is aloft now. This is our first operational test of a balloon built with adhesive tape - wish us luck!

The balloon can be tracked here:

http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11

And here:

http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes

73,
Robert KC8UCH

--
Robert Rochte
Director of Technology
The Grosse Pointe Academy
171 Lake Shore Road
Grosse Pointe Farms, Michigan 48236
+1 313.886.1221 x155 Voice
http://mail.gpacademy.org/~rochter

2066. Re: [tvnsp] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 15:51:17 UTC
From: Stephanie Steele
Topic: 2051 Message: 2066

Ok, my bad. So TVNSP has asked for 4. Where does that put the order?

Stephanie

Jeff Melanson wrote:

>Actually, I didn't order any. I already have balloons from last year.
>But Dan did ask for two.
>
>Jeff
>
>Stephanie Steele wrote:
>
>
>
>>Before you get this all wrapped up and an order placed, you might verify
>>how many are wanted. I think you undercounted TVNSP as three of us
>>(myself, Dan, and Jeff) spoke up for balloons for what I thought was a
>>total of 6. With the others I have seen, and these seven, along with
>>ours, you might end up at the next price break point (assuming there is
>>one) with some luck. Ditto on the shipping.
>>
>>Stephanie
>>
>>
>>Steve KA5YFC wrote:
>>
>>
>>
>>>Habitat SkyLab will take seven which should bring the total to 18. This
>>>should get us the $60 price if I remember right. Let us know what the
>>>S/H is so we can get that figured in also.
>>>
>>>Let me know where to send the monies. Do you take PayPal?
>>>
>>>Steve
>>>KA5YFC
>>>
>>>
>>>
>>>
>>>Yahoo! Groups Links
>>>
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>>>
>>>
>>--
>>Stephanie
>>
>>*******************************
>>
>>Fate, luck, and chance are easy prey for preparation.
>>
>>*******************************
>>
>>Friends are quiet angels who lift us to our feet when our wings have
>>trouble remembering how to fly.
>>
>>*******************************
>>
>>The information contained in this e-mail message is private and
>>confidential information intended only for the use of the individual
>>or entity to whom it is addressed. If the reader of this e-mail
>>message is not the intended recipient you are notified any disclosure,
>>dissemination, distribution, copying or the taking of any action based
>>upon the information contained in this message is strictly prohibited.
>>
>>
>>de recta non tolerandum sunt
>>
>>*******************************
>>
>>...and for those who just can not get enough tag lines:
>>
>>IMPORTANT: This email is intended for the use of the
>>individual addressee(s) named above and may contain
>>information that is confidential privileged or unsuitable
>>for overly sensitive persons with low self-esteem, no
>>sense of humor or irrational religious beliefs. If you are
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>>or copying of this email is not authorized (either explicitly
>>or implicitly) and constitutes an irritating social faux pas.
>>Unless the word absquatulation has been used in its
>>correct context somewhere other than in this warning,
>>it does not have any legal or grammatical use and may
>>be ignored. No animals were harmed in the transmission
>>of this email, although the kelpie next door is living on
>>borrowed time, let me tell you.
>>
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>>If you have received this email in error, please add some
>>nutmeg and egg whites, whisk and place in a warm oven
>>for 40 minutes
>>
>>
>>
>>
>>SPONSORED LINKS
>>Space exploration
>><http://groups.yahoo.com/gads?t=ms&k=Space+exploration&w1=Space+exploration&w2=Photograp
hs&w3=Aerospace&c=3&s=55&.sig=IQ3FTC3woVVJlSJFUbnOvg>
>> Photographs
>><http://groups.yahoo.com/gads?t=ms&k=Photographs&w1=Space+exploration&w2=Photographs&w3=
Aerospace&c=3&s=55&.sig=J1729j3vi-EZPrETp_W7FQ>
>> Aerospace
>><http://groups.yahoo.com/gads?t=ms&k=Aerospace&w1=Space+exploration&w2=Photographs&w3=Ae
rospace&c=3&s=55&.sig=0f_bpP759yA0VzzU2jdZSw>
>>
>>
>>
>>---
>>YAHOO! GROUPS LINKS
>>
>> * Visit your group "tvnsp <http://groups.yahoo.com/group/tvnsp>"
>> on the web.
>>
>> * To unsubscribe from this group, send an email to:
>> tvnsp-unsubscribe@yahoogroups.com
>> <mailto:tvnsp-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>>
>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service <http://docs.yahoo.com/info/terms/>.
>>
>>
>>---
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>>
>>No virus found in this incoming message.
>>Checked by AVG Free Edition.
>>Version: 7.1.375 / Virus Database: 268.2.0/275 - Release Date: 3/6/2006
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>
>Yahoo! Groups Links
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>

--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

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de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

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correct context somewhere other than in this warning,
it does not have any legal or grammatical use and may
be ignored. No animals were harmed in the transmission
of this email, although the kelpie next door is living on
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for 40 minutes

2067. Re: [tvnsp] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 20:32:33 UTC
From: Ryan Butler
Topic: 2051 Message: 2067

With the additional 6 plus Paul Verhage's 2 and the nstar 2 (if they're still interested) that should put us around 23. I've asked Kaymont for a shipping quote and am waiting to hear back.

Ryan

On Tue, 2006-03-07 at 08:51 -0700, Stephanie Steele wrote:
> Ok, my bad. So TVNSP has asked for 4. Where does that put the order?
>
> Stephanie
>
>
>
> Jeff Melanson wrote:
>
> >Actually, I didn't order any. I already have balloons from last
> year.
> >But Dan did ask for two.
> >
> >Jeff
> >
> >Stephanie Steele wrote:
> >
> >
> >
> >>Before you get this all wrapped up and an order placed, you might
> verify
> >>how many are wanted. I think you undercounted TVNSP as three of us
> >>(myself, Dan, and Jeff) spoke up for balloons for what I thought
> was a
> >>total of 6. With the others I have seen, and these seven, along with
> >>ours, you might end up at the next price break point (assuming there
> is
> >>one) with some luck. Ditto on the shipping.
> >>
> >>Stephanie
> >>
> >>
> >>Steve KA5YFC wrote:
> >>
> >>
> >>
> >>>Habitat SkyLab will take seven which should bring the total to 18.
> This
> >>>should get us the $60 price if I remember right. Let us know what

> the
> >>>S/H is so we can get that figured in also.
> >>>
> >>>Let me know where to send the monies. Do you take PayPal?
> >>>
> >>>Steve
> >>>KA5YFC
> >>>
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> >>>
> >>>
> >>>Yahoo! Groups Links
> >>>
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> >>>
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> >>>
> >>--
> >>Stephanie
> >>
> >>**********
> >>
> >>Fate, luck, and chance are easy prey for preparation.
> >>
> >>**********
> >>
> >>Friends are quiet angels who lift us to our feet when our wings
> have
> >>trouble remembering how to fly.
> >>
> >>**********
> >>
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> >>dissemination, distribution, copying or the taking of any action
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> >>upon the information contained in this message is strictly
> prohibited.
> >>
> >>
> >>de recta non tolerandum sunt

> >>
> >>*******************************
> >>
> >>...and for those who just can not get enough tag lines:
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> >>
> >>SPONSORED LINKS
> >>Space exploration
> >><http://groups.yahoo.com/gads?t=ms&k=Space+exploration&w1=Space
> +exploration&w2=Photographs&w3=Aerospace&c=3&s=55&.sig=IQ3FTC3woVVJlSJFUbnOvg>
> >> Photographs
> >><http://groups.yahoo.com/gads?t=ms&k=Photographs&w1=Space
> +exploration&w2=Photographs&w3=Aerospace&c=3&s=55&.sig=J1729j3vi-EZPrETp_W7FQ>
> >> Aerospace
> >><http://groups.yahoo.com/gads?t=ms&k=Aerospace&w1=Space
> +exploration&w2=Photographs&w3=Aerospace&c=3&s=55&.sig=0f_bpP759yA0VzzU2jdZSw>
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> >>
> >>---
> >>YAHOO! GROUPS LINKS
> >>
> >> * Visit your group "tvnsp

> <http://groups.yahoo.com/group/tvnsp>"
> >> on the web.
> >>
> >> * To unsubscribe from this group, send an email to:
> >> tvnsp-unsubscribe@yahoogroups.com
> >> <mailto:tvnsp-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >>
> >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> >> Service <http://docs.yahoo.com/info/terms/>.
> >>
> >>
> >>--
> >>
> >>--
> >>
> >>No virus found in this incoming message.
> >>Checked by AVG Free Edition.
> >>Version: 7.1.375 / Virus Database: 268.2.0/275 - Release Date:
> 3/6/2006
> >>
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> >
> >Yahoo! Groups Links
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> >
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> --
> Stephanie
>
> ********************************
>
> Fate, luck, and chance are easy prey for preparation.
>
> ********************************
>
> Friends are quiet angels who lift us to our feet when our wings have
> trouble remembering how to fly.
>
> ********************************
>

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>
>
> de recta non tolerandum sunt
>
> ******************************
>
> ....and for those who just can not get enough tag lines:
>
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> If you have received this email in error, please add some
> nutmeg and egg whites, whisk and place in a warm oven
> for 40 minutes
>
>
>
>
> SPONSORED LINKS
> Hobby and craft supply
> Craft hobby
> Ham radio
>
>
> ~---~
> YAHOO! GROUPS LINKS

>
> 1. Visit your group "GPSL" on the web.
>
> 2. To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> --
>

2068. [tvnsp] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 21:25:09 UTC
From: Hank
Topic: 2051 Message: 2068

Ryan,

I sent you email yesterday to tsss.org but it bounced.

I'm wondering if you could ask Kaymont what a 200 gram balloon would cost if it were added to this order.

There may be no cost advantage and maybe it has to be a minimum number of each size balloon anyway.

This is an excellent idea to do a group buy with the new Kaymont sales policy and I'm glad there has been such a good response.

Hank

2069. Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 21:50:01 UTC
From: Hank
Topic: 2065 Message: 2069

> This is our first operational test of a balloon built with
> adhesive tape - wish us luck!

Robert,

Tremendous. Very stable altitude and just passing Pittsburgh
on its way across Pennsylvania.

It will be great if it comes down on land.

Hank

2070. Re: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-07 22:16:22 UTC
From: David Hoffman
Topic: 2065 Message: 2070

That's nearly 8 hours at above 60K'.? Nice.
David Hoffman - KE4FGW

>> This is our first operational test of a balloon built with
>> adhesive tape - wish us luck!
>
> Robert,
>
> Tremendous. Very stable altitude and just passing Pittsburgh
> on its way across Pennsylvania.
>
> It will be great if it comes down on land.
>
> Hank
>
>
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>
>
> Yahoo! Groups Links
>
> <*> To visit your group on the web, go to:
> http://groups.yahoo.com/group/GPSL/
>
> <*> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> <*> Your use of Yahoo! Groups is subject to:
> http://docs.yahoo.com/info/terms/
>
>
>
>
>

2071. Re: [GPSL] Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-08 00:15:10 UTC
From: Joe
Topic: 2065 Message: 2071

awesome flight so far,!

Congrats!

And from someone who landed once in Ohare,, Hope it makes it to the
ground before it flies over DC, wonder what they'll say or think about
that?

Joe

Rochte, Robert wrote:

>
> Sky Diamond 9, a 2500 cubic foot solar tetroon constructed by fifth grade
> students at the Grosse Pointe Academy, is aloft now. This is our first
> operational test of a balloon built with adhesive tape - wish us luck!
>
> The balloon can be tracked here:
>
> http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11
>
> And here:
>
> http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes
> <http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes>
>
> 73,
> Robert KC8UCH
>
> --
> Robert Rochte
> Director of Technology
> The Grosse Pointe Academy
> 171 Lake Shore Road
> Grosse Pointe Farms, Michigan 48236
> +1 313.886.1221 x155 Voice
> http://mail.gpacademy.org/~rochter <http://mail.gpacademy.org/%7Erochter>
>
>
> SPONSORED LINKS
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2
=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>

> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
>
>
>
> ---
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ---
>

2072. Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-08 16:11:06 UTC
From: Ryan Butler
Topic: 2051 Message: 2072

Okay

Here's the final stuff as I have it, please let me know on inaccuracies:

CNSSP 4 - $243.64
WZ4O 2 - $121.82
TVNSP 2 - $121.82
ARBONET 2 - $121.82
Mike 1 - $60.91
CIBE 2 - $121.82
Hab/Sky 7 - $426.36
Paul 2 - $121.82

This reflects a $60 per balloon plus $20 in shipping from Kaymont
divided by the number of balloons multiplied by the number of balloons
you bought.

This does not reflect the reshipping. For most everyone, it's gonna be
between $6-$10 UPS ground, for the large orders, it could be upwards of
$30. I can also check USPS if that's what everyone would prefer.

We can do this in one of two ways, you can paypal or money order me the
amount shown above and then a 2nd one when I calculate actual shipping,
or you can just tack on $10 if you're ordering 1 or 2 balloons, and $20
if you're ordering more than 2. I can refund the excess if you like.

If you're paypal'ing, rbutler@... is where you can send it to.

I'll order once I have enough to get them here.

Questions, comments?

Ryan

On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
> Haven't forgot about everyone, I'll send out an email about getting
> balloons on Sunday hopefully. Just a note to let eveyone know I
> didn't
> disappear.
>
> Thanks for all the input.
>
> Ryan Butler
> KB0JQO
>
>
>

> --
> YAHOO! GROUPS LINKS
>
> 1. Visit your group "GPSL" on the web.
>
> 2. To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service.
>
>
> --
>

2073. Re: [KNSP] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-08 16:27:42 UTC
From: Stephanie Steele
Topic: 2051 Message: 2073

Hi Ryan,

TVNSP should be 4, two for me and two for Dan. Thanks.

Stephanie

Ryan Butler wrote:

>Okay
>
>Here's the final stuff as I have it, please let me know on inaccuracies:
>
>CNSSP 4 - $243.64
>WZ4O 2 - $121.82
>TVNSP 2 - $121.82
>ARBONET 2 - $121.82
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>CIBE 2 - $121.82
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>This reflects a $60 per balloon plus $20 in shipping from Kaymont
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>This does not reflect the reshipping. For most everyone, it's gonna be
>between $6-$10 UPS ground, for the large orders, it could be upwards of
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>We can do this in one of two ways, you can paypal or money order me the
>amount shown above and then a 2nd one when I calculate actual shipping,
>or you can just tack on $10 if you're ordering 1 or 2 balloons, and $20
>if you're ordering more than 2. I can refund the excess if you like.
>
>If you're paypal'ing, rbutler@... is where you can send it to.
>
>I'll order once I have enough to get them here.
>
>Questions, comments?
>
>Ryan
>
>
>
>On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
>

>
>>Haven't forgot about everyone, I'll send out an email about getting
>>balloons on Sunday hopefully. Just a note to let eveyone know I
>>didn't
>>disappear.
>>
>>Thanks for all the input.
>>
>>Ryan Butler
>>KB0JQO
>>
>>
>>
>>_____
>>YAHOO! GROUPS LINKS
>>
>> 1. Visit your group "GPSL" on the web.
>>
>> 2. To unsubscribe from this group, send an email to:
>> GPSL-unsubscribe@yahoogroups.com
>>
>> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service.
>>
>>
>>_____
>>
>>
>>
>
>
>
>List owner: KNSP-owner@yahoogroups.com
>Group URL: http://groups.yahoo.com/group/KNSP
>wner: KNSP-owner@yahoogroups.com
>Group URL: http://groups.yahoo.com/group/KNSP
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

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de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

IMPORTANT: This email is intended for the use of the
individual addressee(s) named above and may contain
information that is confidential privileged or unsuitable
for overly sensitive persons with low self-esteem, no
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nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

2074. Re: [KNSP] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-08 16:33:51 UTC
From: Ryan Butler
Topic: 2051 Message: 2074

I think I had CNSSP and TVNSP backwards, I believe CNSSP asked for 2,
and you 4, so swap those numbers :)

Thanks for catching it.

Ryan

On Wed, 2006-03-08 at 09:27 -0700, Stephanie Steele wrote:
> Hi Ryan,
>
> TVNSP should be 4, two for me and two for Dan. Thanks.
>
> Stephanie
>
>
>
> Ryan Butler wrote:
>
> >Okay
> >
> >Here's the final stuff as I have it, please let me know on inaccuracies:
> >
> >CNSSP 4 - $243.64
> >WZ4O 2 - $121.82
> >TVNSP 2 - $121.82
> >ARBONET 2 - $121.82
> >Mike 1 - $60.91
> >CIBE 2 - $121.82
> >Hab/Sky 7 - $426.36
> >Paul 2 - $121.82
> >
> >This reflects a $60 per balloon plus $20 in shipping from Kaymont
> >divided by the number of balloons multiplied by the number of balloons
> >you bought.
> >
> >This does not reflect the reshipping. For most everyone, it's gonna be
> >between $6-$10 UPS ground, for the large orders, it could be upwards of
> >$30. I can also check USPS if that's what everyone would prefer.
> >
> >We can do this in one of two ways, you can paypal or money order me the
> >amount shown above and then a 2nd one when I calculate actual shipping,
> >or you can just tack on $10 if you're ordering 1 or 2 balloons, and $20
> >if you're ordering more than 2. I can refund the excess if you like.
> >
> >If you're paypal'ing, rbutler@... is where you can send it to.
> >

> >I'll order once I have enough to get them here.
> >
> >Questions, comments?
> >
> >Ryan
> >
> >
> >
> >On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
> >
> >
> >>Haven't forgot about everyone, I'll send out an email about getting
> >>balloons on Sunday hopefully. Just a note to let eveyone know I
> >>didn't
> >>disappear.
> >>
> >>Thanks for all the input.
> >>
> >>Ryan Butler
> >>KB0JQO
> >>
> >>
> >>
> >>_____
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> >>
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> >
> >
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> >List owner: KNSP-owner@yahoogroups.com
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> >
> >Yahoo! Groups Links
> >
> >

> >
> >
> >
> >
> >
> >
>
> --
> Stephanie
>
> ******************************
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>
>

2075. Re: [KNSP] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-08 17:44:49 UTC
From: rahammond@charter.net
Topic: 2051 Message: 2075

Ryan,

Yep, CNNSP for 2

Roger - KCØMWM

---- Ryan Butler <rbutler@tsss.org> wrote:
> I think I had CNSSP and TVNSP backwards, I believe CNSSP asked for 2,
> and you 4, so swap those numbers :)
>
> Thanks for catching it.
>
> Ryan
>
>
> On Wed, 2006-03-08 at 09:27 -0700, Stephanie Steele wrote:
> > Hi Ryan,
> >
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> > Stephanie
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> >
> >
> > Ryan Butler wrote:
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> > >Okay
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> > >Here's the final stuff as I have it, please let me know on inaccuracies:
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> > >WZ4O 2 - $121.82
> > >TVNSP 2 - $121.82
> > >ARBONET 2 - $121.82
> > >Mike 1 - $60.91
> > >CIBE 2 - $121.82
> > >Hab/Sky 7 - $426.36
> > >Paul 2 - $121.82
> > >
> > >This reflects a $60 per balloon plus $20 in shipping from Kaymont
> > >divided by the number of balloons multiplied by the number of balloons
> > >you bought.
> > >
> > >This does not reflect the reshipping. For most everyone, it's gonna be
> > >between $6-$10 UPS ground, for the large orders, it could be upwards of
> > >$30. I can also check USPS if that's what everyone would prefer.

> > >
> > >We can do this in one of two ways, you can paypal or money order me the
> > >amount shown above and then a 2nd one when I calculate actual shipping,
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> > >
> > >If you're paypal'ing, rbutler@... is where you can send it to.
> > >
> > >I'll order once I have enough to get them here.
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> > >Questions, comments?
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> > >Ryan
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> > >
> > >
> > >On Sat, 2006-03-04 at 10:33 -0600, Ryan Butler wrote:
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> > >>Haven't forgot about everyone, I'll send out an email about getting
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> > >>
> > >>Thanks for all the input.
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> > >>Ryan Butler
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> > >>
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> > >> 3. Your use of Yahoo! Groups is subject to the Yahoo! Terms of
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> > >>
> > >>
> > >>_____
> > >>
> > >>
> > >>
> > >
> > >
> > >

> > >List owner: KNSP-owner@yahoogroups.com
> > >Group URL: http://groups.yahoo.com/group/KNSP
> > >wner: KNSP-owner@yahoogroups.com
> > >Group URL: http://groups.yahoo.com/group/KNSP
> > >
> > >Yahoo! Groups Links
> > >
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> > >
> > >
> > >
> >
> > --
> > Stephanie
> >
> > ********************************
> >
> > Fate, luck, and chance are easy prey for preparation.
> >
> > ********************************
> >
> > Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.
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> > ********************************
> >
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> >
> > de recta non tolerandum sunt
> >
> > ********************************
> >
> > ....and for those who just can not get enough tag lines:
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> > for 40 minutes
> >
> >
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>
>
>
> Yahoo! Groups Links
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>
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>
>

2076. Re: [tvnsp] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-08 20:26:12 UTC
From: John C Nordlie
Topic: 2051 Message: 2076

Is it too late to get in on this? Our group could use a few 1200s
as well.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==========

On Tue, 7 Mar 2006, Ryan Butler wrote:

> With the additional 6 plus Paul Verhage's 2 and the nstar 2 (if they're
> still interested) that should put us around 23. I've asked Kaymont for
> a shipping quote and am waiting to hear back.
>
> Ryan
>
>
> On Tue, 2006-03-07 at 08:51 -0700, Stephanie Steele wrote:
> > Ok, my bad. So TVNSP has asked for 4. Where does that put the order?
> >
> > Stephanie
> >
> >
> >
> > Jeff Melanson wrote:
> >
> > >Actually, I didn't order any. I already have balloons from last
> > year.
> > >But Dan did ask for two.
> > >
> > >Jeff
> > >
> > >Stephanie Steele wrote:
> > >
> > >
> > >
> > >>Before you get this all wrapped up and an order placed, you might
> > verify
> > >>how many are wanted. I think you undercounted TVNSP as three of us
> > >>(myself, Dan, and Jeff) spoke up for balloons for what I thought
> > was a
> > >>total of 6. With the others I have seen, and these seven, along with
> > >>ours, you might end up at the next price break point (assuming there
> > is
> > >>one) with some luck. Ditto on the shipping.

> > >>
> > >>Stephanie
> > >>
> > >>
> > >>Steve KA5YFC wrote:
> > >>
> > >>
> > >>
> > >>>Habitat SkyLab will take seven which should bring the total to 18.
> > This
> > >>>should get us the $60 price if I remember right. Let us know what
> > the
> > >>>S/H is so we can get that figured in also.
> > >>>
> > >>>Let me know where to send the monies. Do you take PayPal?
> > >>>
> > >>>Steve
> > >>>KA5YFC
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>Yahoo! Groups Links
> > >>>
> > >>>
> > >>>
> > >>>
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> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>
> > >>>--
> > >>Stephanie
> > >>
> > >>**********
> > >>
> > >>Fate, luck, and chance are easy prey for preparation.
> > >>
> > >>**********
> > >>
> > >>Friends are quiet angels who lift us to our feet when our wings
> > have
> > >>trouble remembering how to fly.
> > >>
> > >>**********
> > >>
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> > >>upon the information contained in this message is strictly
> > prohibited.
> > >>
> > >>
> > >>de recta non tolerandum sunt
> > >>
> > >>*******************************
> > >>
> > >>...and for those who just can not get enough tag lines:
> > >>
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> > >>
> > >>
> > >>
> > >>SPONSORED LINKS
> > >>Space exploration
> > >><http://groups.yahoo.com/gads?t=ms&k=Space+exploration&w1=Space
> > +exploration&w2=Photographs&w3=Aerospace&c=3&s=55&.sig=IQ3FTC3woVVJlSJFUbnOvg>
> > >> Photographs
> > >><http://groups.yahoo.com/gads?t=ms&k=Photographs&w1=Space

> > +exploration&w2=Photographs&w3=Aerospace&c=3&s=55&.sig=J1729j3vi-EZPrETp_W7FQ>
> > >> Aerospace
> > >><http://groups.yahoo.com/gads?t=ms&k=Aerospace&w1=Space
> > +exploration&w2=Photographs&w3=Aerospace&c=3&s=55&.sig=0f_bpP759yA0VzzU2jdZSw>
> > >>
> > >>
> > >>
> > >>---
> > >>YAHOO! GROUPS LINKS
> > >>
> > >> * Visit your group "tvnsp
> > <http://groups.yahoo.com/group/tvnsp>"
> > >> on the web.
> > >>
> > >> * To unsubscribe from this group, send an email to:
> > >> tvnsp-unsubscribe@yahoogroups.com
> > >> <mailto:tvnsp-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> > >>
> > >> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> > >> Service <http://docs.yahoo.com/info/terms/>.
> > >>
> > >>
> > >>---
> > >>
> > >>---
> > >>
> > >>No virus found in this incoming message.
> > >>Checked by AVG Free Edition.
> > >>Version: 7.1.375 / Virus Database: 268.2.0/275 - Release Date:
> > 3/6/2006
> > >>
> > >>
> > >>
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> > >>
> > >>
> > >>Yahoo! Groups Links
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> > >>
> > >
> > --
> > Stephanie
> >

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> >
> >
> >
> > SPONSORED LINKS
> > Hobby and craft supply
> > Craft hobby
> > Ham radio
> >
> >
> > ~~~~~~
> > YAHOO! GROUPS LINKS
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> > 1. Visit your group "GPSL" on the web.
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> Yahoo! Groups Links
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2077. [tvnsp] Re: [GPSL] Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-09 03:52:25 UTC
From: kc0nsr
Topic: 2051 Message: 2077

```
--- In GPSL@yahoogroups.com, John C Nordlie <nordlie@...> wrote:
>
> Is it too late to get in on this? Our group could use a few 1200s
> as well.
>
>
========================================================================
> John Nordlie N0RNB | Regional Weather Information
Center
> nordlie@... | University of North Dakota
> http://blizzard.rwic.und.edu/~nordlie/
>
========================================================================
>

I could use a couple also, if it's not too late yet.

Haven't read the group in a couple weeks as I've been out of town.

Paul Seifert, KC0NSR
ConHAB
Concordia College, Moorhead, MN
```

2078. e: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-09 15:06:54 UTC
From: K. Mark Caviezel
Topic: 2078 Message: 2078

> From: Joe <nss@...>
> Subject: Re: Solar tetroon Sky Diamond 9 aloft
>
> awesome flight so far,!
>
> Congrats!
>
> And from someone who landed once in Ohare,, Hope it
> makes it to the
> ground before it flies over DC, wonder what they'll
> say or think about
> that?

MAYBE THEY'LL HAVE DICK CHENEY SHOOT AT IT.

2079. Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 16:08:59 UTC
From: Gene Harlan
Topic: 1887 Message: 2079

It is about time to start putting together the Spring issue of Amateur Television Quarterly. I will need articles by April 1st. Please email me and let me know what will be on the way.

The Spring issue will have information about ATV get togethers and meetings at the Dayton Hamvention. We will be in booth 207 with lots of ATV stuff to show and tell and sell! Hope to see you there.

Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

2080. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 16:21:25 UTC
From: mconner1@gmail.com
Topic: 1887 Message: 2080

Perhaps an article on the 2006 GPSL?

I wonder if it might be worthwhile to have a flyer on GPSL (and maybe ARHAB in general) available at Dayton. That might help get the word out.

73 de Mark N9XTN

2081. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 17:57:03 UTC
From: Gene Harlan
Topic: 1887 Message: 2081

Mark,

I would be happy to have a flyer available at our booth if someone makes one. Do the balloonatics have a booth?

Gene - WB9MMM

----- Original Message -----
From: <mconner1@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, March 13, 2006 10:21 AM
Subject: Re: [GPSL] Amateur Television Quarterly

Perhaps an article on the 2006 GPSL?

I wonder if it might be worthwhile to have a flyer on GPSL (and maybe ARHAB in general) available at Dayton. That might help get the word out.

73 de Mark N9XTN

Yahoo! Groups Links

2082. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 19:17:42 UTC
From: Zack Clobes
Topic: 1887 Message: 2082

Sounds like I need to get going on finalizing some of the details.

As I recall on GPSL 2006, with one possible exception, everyone was in
favor of assessing a "landing fee" for people who attend the symposium?
It would also mean that we would be expected to stay at their hotel,
(however they have told me that they can't/don't ENFORCE that rule).

Unless there is further discussion, I will get back with the hotel later
this week and we can start putting together marketing materials.

Zack

mconner1@... wrote:
> Perhaps an article on the 2006 GPSL?
>
> I wonder if it might be worthwhile to have a flyer on GPSL (and maybe ARHAB in general)
available at Dayton. That might help get the word out.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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2083. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 19:44:42 UTC
From: mconner1@gmail.com
Topic: 1887 Message: 2083
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2084. Re: GPSL logistics

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 19:54:51 UTC
From: mconner1@gmail.com
Topic: 1887 Message: 2084

I forget the details on this discussion. Was the idea to assess a fee per participating group, or per attendee at Friday's sessions?

I also can't remember where we ended up regarding the cost, either.

I think something like $5/person for Friday is reasonable, with 18 and under exempt. If we had something like that at GPSL 2005 that would have generated about $300 or more. We did a donation can which worked well but we had less overhead to cover.

Many conferences I attend charge $30-$50 per day per person for attendance to cover the overhead. I don't think we need to do that, but we should keep in mind the typical cost of something like this.

73 de Mark N9XTN

2085. D7 and GPS 5

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 19:58:34 UTC
From: PAUL VERHAGE
Topic: 1887 Message: 2085

Does anyone track balloons using a D7 and GPS V?

Paul

2086. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 19:59:19 UTC
From: PAUL VERHAGE
Topic: 1887 Message: 2086

I still may have that at home. If not, TVNSP may have a copy.

Paul

>>> mconner1@... 3/13/2006 12:44 pm >>>
As I recall, TVNSP had a nice flyer for ARHAB in general already built (or maybe it's specific to TVNSP - I can't remember for sure). I don't know of any group with a booth/table at Dayton.

73 de Mark N9XTN

==========
Mark,

I would be happy to have a flyer available at our booth if someone makes one. Do the balloonatics have a booth?

Gene - WB9MMM

----- Original Message -----
From: <mconner1@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, March 13, 2006 10:21 AM
Subject: Re: [GPSL] Amateur Television Quarterly

Perhaps an article on the 2006 GPSL?

I wonder if it might be worthwhile to have a flyer on GPSL (and maybe ARHAB in general) available at Dayton. That might help get the word out.

73 de Mark N9XTN

Yahoo! Groups Links

2087. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-13 19:57:49 UTC
From: PAUL VERHAGE
Topic: 1887 Message: 2087

Zack, I have relatives in town that I'll be staying with. However, I'll help pay the landing fee for everyone else. I'm looking forward to getting back to Kansas with its heat, humidity, tornadoes, mosquitoes....

Maybe on second thought....

Is there anything I can do in Idaho?

Paul

>>> zclobes@... 3/13/2006 12:17 pm >>>
Sounds like I need to get going on finalizing some of the details.

As I recall on GPSL 2006, with one possible exception, everyone was in
favor of assessing a "landing fee" for people who attend the symposium?
It would also mean that we would be expected to stay at their hotel,
(however they have told me that they can't/don't ENFORCE that rule).

Unless there is further discussion, I will get back with the hotel later
this week and we can start putting together marketing materials.

Zack

mconner1@... wrote:
> Perhaps an article on the 2006 GPSL?
>
> I wonder if it might be worthwhile to have a flyer on GPSL (and maybe ARHAB in general) available at Dayton. That might help get the word out.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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Yahoo! Groups Links

2088. Re: [GPSL] D7 and GPS 5

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-14 01:08:08 UTC
From: Paulus Adisoemarta
Topic: 1887 Message: 2088

According to PAUL VERHAGE:
>
>Does anyone track balloons using a D7 and GPS V?

I use D7A(G) but with Garmin Etrex.

73 de Paulus N5SNN

--
Paulus Suryono Adisoemarta, Ph.D.
Assistant Professor
Petroleum Engineering Dept. paulus@...
Texas Tech University, Lubbock TX N5SNN / YG1QN

2089. Re: [GPSL] Re: GPSL logistics

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-14 01:33:33 UTC
From: Don KA0JLF
Topic: 1887 Message: 2089

Personally, I think those that attend should pay. I don't understand why you charge those that fly. In the past it seemed there were people that attended but did not fly. As well as people that flew, I being one of them, that did not attend.

Those of us that flew, covered the costs we generated, i.e. Helium, balloons. I don't see why I, or others like me, should have to pay for a hotel I didn't stay at.

However, I'm not in charge, and my opinion is just that my opinion. For what it's worth.

Don

--- mconner1@... wrote:

> I forget the details on this discussion. Was the
> idea to assess a fee per participating group, or per
> attendee at Friday's sessions?
>
> I also can't remember where we ended up regarding
> the cost, either.
>
> I think something like $5/person for Friday is
> reasonable, with 18 and under exempt. If we had
> something like that at GPSL 2005 that would have
> generated about $300 or more. We did a donation can
> which worked well but we had less overhead to cover.
>
> Many conferences I attend charge $30-$50 per day per
> person for attendance to cover the overhead. I
> don't think we need to do that, but we should keep
> in mind the typical cost of something like this.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
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2090. Re: [GPSL] Re: GPSL logistics

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-14 01:44:14 UTC
From: Zack Clobes
Topic: 1887 Message: 2090

I hadn't intended to charge a group that didn't attend the symposium - I just hadn't thought of that scenario. (But you really should attend -- you're missing out on a LOT of great information.)

My intentions were for the balloon groups to cover the cost of the gathering, so as not to discourage a non-balloonist from checking us out and see what all of the fuss is about.

Maybe I'm wrong (and if so, feel free to tell me), but I think that the GPSL group is growing large enough that it's about time to start taking things to the next level in terms of conference rooms, give-aways, advertising, etc.

Zack

Don KA0JLF wrote:
> Personally, I think those that attend should pay. I
> don't understand why you charge those that fly. In the
> past it seemed there were people that attended but did
> not fly. As well as people that flew, I being one of
> them, that did not attend.
>
> Those of us that flew, covered the costs we generated,
> i.e. Helium, balloons. I don't see why I, or others
> like me, should have to pay for a hotel I didn't stay
> at.
>
> However, I'm not in charge, and my opinion is just
> that my opinion. For what it's worth.
>
> Don
>
> --- mconner1@... wrote:
>
>
>> I forget the details on this discussion. Was the
>> idea to assess a fee per participating group, or per
>> attendee at Friday's sessions?
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>> the cost, either.
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>> reasonable, with 18 and under exempt. If we had
>> something like that at GPSL 2005 that would have
>> generated about $300 or more. We did a donation can

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>> 73 de Mark N9XTN
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2091. Re: [GPSL] Re: GPSL logistics

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-14 22:16:08 UTC
From: David Hoffman
Topic: 1887 Message: 2091

I came to GPSL mostly as a spectator in 2005.? I've chased many of Bill Brown's flights and therefore also chose to be identified with Bill Brown as a group.? Even though I spent nearly $1000 for everything to make this trip possible, I wouldn't have minded pitching in a small fee for the conference room.? I would hope though that we try and keep the cost down and choose the conference rooms accordingly.? That was a very expensive trip as it was, so we need to be very careful on how expensive all the goodies become.? They all do add up.
David Hoffman - KE4FGW

> I hadn't intended to charge a group that didn't attend the symposium - I
> just hadn't thought of that scenario. (But you really should attend --
> you're missing out on a LOT of great information.)
>
> My intentions were for the balloon groups to cover the cost of the
> gathering, so as not to discourage a non-balloonist from checking us out
> and see what all of the fuss is about.
>
> Maybe I'm wrong (and if so, feel free to tell me), but I think that the
> GPSL group is growing large enough that it's about time to start taking
> things to the next level in terms of conference rooms, give-aways,
> advertising, etc.
>
> Zack
>
> Don KA0JLF wrote:
>> Personally, I think those that attend should pay. I
>> don't understand why you charge those that fly. In the
>> past it seemed there were people that attended but did
>> not fly. As well as people that flew, I being one of
>> them, that did not attend.
>>
>> Those of us that flew, covered the costs we generated,
>> i.e. Helium, balloons. I don't see why I, or others
>> like me, should have to pay for a hotel I didn't stay
>> at.
>>
>> However, I'm not in charge, and my opinion is just
>> that my opinion. For what it's worth.
>>
>> Don
>>
>> --- mconner1@... wrote:
>>
>>
>>> I forget the details on this discussion. Was the

>>> idea to assess a fee per participating group, or per
>>> attendee at Friday's sessions?
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>>> I also can't remember where we ended up regarding
>>> the cost, either.
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>>> I think something like $5/person for Friday is
>>> reasonable, with 18 and under exempt. If we had
>>> something like that at GPSL 2005 that would have
>>> generated about $300 or more. We did a donation can
>>> which worked well but we had less overhead to cover.
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>>> Many conferences I attend charge $30-$50 per day per
>>> person for attendance to cover the overhead. I
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>>> in mind the typical cost of something like this.
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>>> 73 de Mark N9XTN
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2092. [Fwd: [GPSL] Opinions on GPSL 2006 - I need some feedback]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 03:22:32 UTC
From: Zack Clobes
Topic: 2092 Message: 2092

Here's my email that I sent out back in November that should help refresh people's memories.

I'm looking at $25 per group who attends the Symposium to cover those costs. We could also do a $5 per head, but like I said, I'm afraid of scaring off someone who would otherwise check us out.

Zack

-------- Original Message --------
Subject: [GPSL] Opinions on GPSL 2006 - I need some feedback
Date: Mon, 14 Nov 2005 17:18:03 -0600
From: Zack Clobes <zclobes@...>
Reply-To: GPSL@yahoogroups.com
To: group gpsl <GPSL@yahoogroups.com>

As was decided over the past couple of months, GPSL 2006 will be held in Hutchinson, KS on the weekend of 4-6 August. We plan on following the traditional schedule of symposium on Friday (4 Aug), flight on Saturday morning, and a rain-date of Sunday morning.

Hutchinson has a brand new (more or less, it's a long story) convention center in town that is part of a nice hotel, and includes an indoor water park. (http://www.grandprairiehotel.com/)

I have contacted Grand Prairie regarding use of a conference room. It basically boils down $125 for the Symposium on Friday, assuming we eat a meal or two at the restaurant. The obvious choices for that meal would be the Thursday evening "gathering" and the Friday lunch.

"Group" room rates are $79 + tax per room night. This includes access to the water park as well as high-speed Internet. We would be expected to reserve approximately 30 rooms for Friday night.

Food prices a little on the high end - think Applebees + 20%, although the serving size is probably 20% larger also. And very good food I might add.

They've agreed to provide water, and allow us to supply our own candy dishes during the Symposium. There is the restaurant that is 100' down the hall, and also a pop and ?candy? machine on premises.

THE QUESTION IS, DOES THE GROUP WANT TO COMMIT TO SPENDING MONEY FOR THIS EVENT? I will keep prices as low as possible, but I'm toying with the thought of charging each flying group a ?$25? "landing fee" to attend the event.

Zack Clobes, W0ZC
Project: Traveler

Yahoo! Groups Links

2093. Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 07:10:22 UTC
From: Mike Manes
Topic: 2093 Message: 2093

Hi Russ,

At the EOSS meeting tonight, we discussed various ways to protect the stainless tubing in the NOAA aircore sampler from damage during landing and a possbible parachute drag. In keeping with the plumb-bob theory of PBC avoidance, we agreed that flying the sampler at the bottom of the flight string in a "tire swing" orientation would have best chance of success. The flight profile is to carry it to at least 80,000 ft (about 30 mbar) where the balloon would be cut away.

For those who weren't there, the sampler is a 75 meter length of 1/4" OD 10 mil wall stainless tubing formed into a 14 lb coil about 3 ft diameter. A wall puncture or a crimp could render the sampler useless.

Perhaps the lightest-weight scheme suggested was to wrap the sampler in "bubble wrap". However, there were some concerns that the bubbles might burst at the low ambient pressure, thus rending it useless for protection on landing or even contaminating the collected air samples. I agreed to test some samples of used bubble wrap in the EOSS altitude chamber.

Samples tested:

Large clear bubble (LCB): 30mm diameter bubbles of clear polyethylene on 33mm centers. A sheet of 18 intact bubbles was cut from the source.

Small clear bubble (SCB): 8mm D bubbles clear poly on 11mm centers. A sheet of about 60 intact bubbles was selected.

Small pink bubble (SPB): same as SCB, but made from pink tinted antistatic material.

Method:

All bubbles in each sample were tested for patency by finger pressure before the test.

All three samples were then inserted into a large clear plastic roasted peanut jar and capped off. The jar and cap were vented with single 3 mm holes. The jar was intended to contain possible explosive bubble failures, thus avoiding damage to the chamber.

The sample jar was then placed in the altitude chamber, which was then pumped down to 1.2 Torr (> 140,000 ft MSL std) at room temperature. After about 2 minutes at 1.2 T, the chamber was vented to local amvient, and the samples retested for patency.

Results:

The samples were viewed during pumpdown. All bubbles appeared
quite distended above about 400T. All remained visibly intact
until 30T, where several of the LCB's opened up non-explosively.
at 10T, several more LCB's failed, and some of the SPB's appeared to
lose distension.

Post test pressure test:

Sample bubbles % bubble failures

LCB 18 33
SCB 60 0
SPB 60 90

Conclusion:

Pink anti-stat bubble wrap is a poor choice for mechanical
protection after a trip to near space, although it may still
provide anti-static protection where needed.

The large bubbles lost much of its protective property but may
be useful if two or more layers are applied.

The small clear bubbles fared best, and may be the best choice
for this application.

Further research:

This experiment did not examine the effects of exposure to tropopause
temperatures, and it is reasonable to expect that cold embrittlement
of the polyethylene film may yield less favorable results. The EOSS
altitude chamber is not provided with means to maintain such
temperatures during pumpdown, but tensile or pressure testing at
surface pressures may reveal the potential impact of this envronmental
variable.

73 de Mike W5VSI
Prez EOSS
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2094. Re: [Fwd: [GPSL] Opinions on GPSL 2006 - I need some feedback]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 10:26:09 UTC
From: wb8elk@aol.com
Topic: 2092 Message: 2094

Hi Zack,

I don't mind contributing $25 for my group (basically anyone who helps with the launch, chases my balloon or comes to observe is part of the group), however that being said I don't think a $5 entrance fee is going to scare off anyone from attending as superb of a conference as GPSL (besides donuts and conference rooms aren't cheap), it's a drop in the bucket compared to the cost of traveling to Kansas to attend and a true bargain when many conferences of this magnitude have fees of $50 or more.

- Bill WB8ELK

2095. Re: [Fwd: [GPSL] Opinions on GPSL 2006 - I need some feedback]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 14:07:19 UTC
From: David Hoffman
Topic: 2092 Message: 2095

I remember this email.? As I recall, I was hoping to wait and see what the rest of the crowd thought about it before I made any comments.? I would venture to guess that everyone else is waiting for the same to happen.? I don't recall see any comments so I guess I'll start?then.
Since?my daughter joined me last year and has a good chance of joining me again this year, I think there is some value in taking advantage of Zack's hotel recommendation of using the Grand Prairie Hotel for this year's GPSL.? I therefore would be in favor of making a reservation in the "group" name for this event.? I may be looking at Thursday, Friday and Saturday night.? It could be 3-4 days worth depending on my plans.? I may stay till Monday.
David Hoffman - KE4FGW

> Here's my email that I sent out back in November that should help
> refresh people's memories.
>
> I'm looking at $25 per group who attends the Symposium to cover those
> costs. We could also do a $5 per head, but like I said, I'm afraid of
> scaring off someone who would otherwise check us out.
>
> Zack
>
>
> -------- Original Message --------
> Subject: [GPSL] Opinions on GPSL 2006 - I need some feedback
> Date: Mon, 14 Nov 2005 17:18:03 -0600
> From: Zack Clobes
> Reply-To: GPSL@yahoogroups.com
> To: group gpsl
>
>
>
> As was decided over the past couple of months, GPSL 2006 will be held in
> Hutchinson, KS on the weekend of 4-6 August. We plan on following the
> traditional schedule of symposium on Friday (4 Aug), flight on Saturday
> morning, and a rain-date of Sunday morning.
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> Hutchinson has a brand new (more or less, it's a long story) convention
> center in town that is part of a nice hotel, and includes an indoor
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> I have contacted Grand Prairie regarding use of a conference room. It
> basically boils down $125 for the Symposium on Friday, assuming we eat a
> meal or two at the restaurant. The obvious choices for that meal would
> be the Thursday evening "gathering" and the Friday lunch.
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> "Group" room rates are $79 + tax per room night. This includes access

> to the water park as well as high-speed Internet. We would be expected
> to reserve approximately 30 rooms for Friday night.
>
> Food prices a little on the high end - think Applebees + 20%, although
> the serving size is probably 20% larger also. And very good food I
> might add.
>
> They've agreed to provide water, and allow us to supply our own candy
> dishes during the Symposium. There is the restaurant that is 100' down
> the hall, and also a pop and ?candy? machine on premises.
>
>
> THE QUESTION IS, DOES THE GROUP WANT TO COMMIT TO SPENDING MONEY FOR
> THIS EVENT? I will keep prices as low as possible, but I'm toying with
> the thought of charging each flying group a ?$25? "landing fee" to
> attend the event.
>
>
> Zack Clobes, W0ZC
> Project: Traveler
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> Yahoo! Groups Links
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2096. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 16:01:49 UTC
From: mconner1@gmail.com
Topic: 2093 Message: 2096

Hi Mike,

Interesting writeup on your bubble-wrap experiments. How long did it take to reduce the pressure to 1.2 Torr? It's possible the failure rate would be higher for a faster pressure change.

Would a box of 3/4" styrofoam (or whatever it's called - the pink or blue stuff in 4'x8' sheets) be suitable? Gluing and taping the seams with the appropriate adhesives should provide enough strength for landing. The weight is obviously more than bubble wrap, but the strength is better and there's a lot of experience to indicate it retains that strength at low pressure/temperature.

73 de Mark N9XTN

2097. [Fwd: Re: [Fwd: Re: [GPSL] Re: GPSL logistics]]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 22:54:58 UTC
From: Mike Manes
Topic: 2097 Message: 2097

-------- Original Message --------
Subject: Re: [Fwd: Re: [GPSL] Re: GPSL logistics]
Date: Wed, 15 Mar 2006 06:25:56 -0800 (PST)
From: Benjie Campbell <w0cbh@...>
To: Mike Manes <manes@...>

Hi all. Well, I feel that we should help with the expenses of the
forums, and meeting places. Whenever I have gone to other events I have
always been willing to pay for that experience. If it gets too
expensive, then I won't attend. Let me know what it costs and I will
contribute, pay, whatever, a resonable fee. Benjie W0CBH

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2098. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-15 23:14:33 UTC
From: Mike Manes
Topic: 2093 Message: 2098

Hi Mark,

It only took about 5 minutes to pump down to 1.2 Torr. The chamber
uses a 1/5 HP Welch vane pump.

Great idea re using building foam board! The 1" thick stuff would
probably do just fine. It'd take some fabrication to form it around
the coil, but that shouldn't take too long.

Tnx es 73 de Mike W5VSI

mconner1@... wrote:
> Hi Mike,
>
> Interesting writeup on your bubble-wrap experiments. How long did it take to reduce the pressure to 1.2 Torr? It's possible the failure rate would be higher for a faster pressure change.
>
> Would a box of 3/4" styrofoam (or whatever it's called - the pink or blue stuff in 4'x8' sheets) be suitable? Gluing and taping the seams with the appropriate adhesives should provide enough strength for landing. The weight is obviously more than bubble wrap, but the strength is better and there's a lot of experience to indicate it retains that strength at low pressure/temperature.
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> 73 de Mark N9XTN
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2099. Re: Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 00:37:42 UTC
From: Hank
Topic: 2093 Message: 2099

> The chamber uses a 1/5 HP Welch vane pump.

Mike,

If you could some day favor us with pictures of the HASTCF,
that would be great.

HASTF: High Altitude Simulation Test Chamber Facilty

Hank

2100. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 00:46:40 UTC
From: wb8elk@aol.com
Topic: 2093 Message: 2100

Mike,

Great info on the bubble wrap test...I've used the small clear Bubble-wrap numerous times for the primary insulation on my 50 milliwatt FM beacon on 2m with a 9-volt lithium taped to a wood stick and a vertical wire dipole (total payload weight of about 3 ounces)...three layers of it held in place by duct tape makes for a very lightweight cover and seems to do the trick in keeping the payload warm during daytime flights...I haven't quantified the temperature performance of this simple cover yet but will do so soon on my next flight or two.

The SCB (small clear bubbles) always seem to be intact (with only a couple of pops) when I recover the payloads....the highest test flight with this system that was recovered was 111,000 feet.

Thanks for an interesting experiment,

- Bill WB8ELK

2101. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 01:13:49 UTC
From: David Hoffman
Topic: 2093 Message: 2101

I used Bill's idea on the UX-3 flight when I flew my 433MHz DF beacon to 115,942 feet and recovered it with what appeared to be no popped bubbles if any at all.
David Hoffman - KE4FGW

> Mike,
>
> Great info on the bubble wrap test...I've used the small clear
> Bubble-wrap
> numerous times for the primary insulation on my 50 milliwatt FM beacon on
> 2m
> with a 9-volt lithium taped to a wood stick and a vertical wire dipole
> (total payload weight of about 3 ounces)...three layers of it held in
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> keeping the payload warm during daytime flights...I haven't quantified
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> temperature performance of this simple cover yet but will do so soon on
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> flight or two.
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> The SCB (small clear bubbles) always seem to be intact (with only a
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> of pops) when I recover the payloads....the highest test flight with this
> system that was recovered was 111,000 feet.
>
> Thanks for an interesting experiment,
>
> - Bill WB8ELK
>
>

2102. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 02:10:11 UTC
From: Harry M
Topic: 2093 Message: 2102

Those are some tough bubbles! It would be interesting to see a pic at altitude to see how big the bubbles get. On the ORB-7 flight that went to an estimated 50-60kft I flew a pong-sat that had some micro-balloons. Some were just taped to a piece of cardboard others were mixed 50-50 with epoxy. The ones in epoxy survived, but the ones that were just taped to cardboard were all broken.

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2103. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 03:24:05 UTC
From: Joe
Topic: 2093 Message: 2103

Hey everyone, I have a question,,

I'm horrible in math,,so here's the question,

at average altitudes,, say between 80K and 100K how much is the vacuum
at that altitude, not in millibars,, or psi's but in torrs

in other words, at say 90K is there more air at that pressure level,,
or at this figure,,,,

5 x 10(-4) torr

I always hated that negative exponent stuff.

so with that number,, which has more air molecules, 90K or a vacuum level of
5 x 10(-4) torr,, and how much difference is it?

Joe
5 x 10(-4) torr

2104. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 03:22:26 UTC
From: Mike Manes
Topic: 2093 Message: 2104

Hi Bill,

I sure is nice to be able to simulate at least part of the apogee
conditions in the comfort of my lab! And I can see what's going
on there as well. I just posted a few crummy pix of the chamber
to GPSL for Hank Riley - not sure GPSL takes 'em.

73 de Mike W5VSI

wb8elk@... wrote:
> Mike,
>
> Great info on the bubble wrap test...I've used the small clear
> Bubble-wrap numerous times for the primary insulation on my 50 milliwatt
> FM beacon on 2m with a 9-volt lithium taped to a wood stick and a
> vertical wire dipole (total payload weight of about 3 ounces)...three
> layers of it held in place by duct tape makes for a very lightweight
> cover and seems to do the trick in keeping the payload warm during
> daytime flights...I haven't quantified the temperature performance of
> this simple cover yet but will do so soon on my next flight or two.
>
> The SCB (small clear bubbles) always seem to be intact (with only a
> couple of pops) when I recover the payloads....the highest test flight
> with this system that was recovered was 111,000 feet.
>
> Thanks for an interesting experiment,
>
> - Bill WB8ELK
>
>
>
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y&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
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w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2105. Re: [GPSL] Re: Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 03:08:37 UTC
From: Mike Manes
Topic: 2093 Message: 2105
Attachments: 4 described; binary payloads are missing from this source WARC

Hi Hank,

Well, t'aint much to look at -- but I think Merle might have
taken some high res digital shots of it in an early stage of
completion, and those may be somewhere on the EOSS web site - Rick?

I just took these snaps with my crummy little webcam, attached
as 4 jpegs. Good enough to give you an idea of what it looks like
and what it does. The digital guage reads in Torr (mmHg), as does
the W&T 0-50 guage inside. The Stokes guage is considered a primary
standard, and as you can see, the actual max vacuum is about 0.5 Torr.

73 de Mike W5VSI
EOSS

Hank wrote:
>>The chamber uses a 1/5 HP Welch vane pump.
>
>
> Mike,
>
> If you could some day favor us with pictures of the HASTCF,
> that would be great.
>
> HASTF: High Altitude Simulation Test Chamber Facilty
>
> Hank
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Mike Manes manes@... Tel: 303-979-4899

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2106. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 03:55:15 UTC
From: Mike Manes
Topic: 2093 Message: 2106

Hi Harry,

I guess I was expecting the bubbles to pop with a loud report, like when you step on a sheet of 'em. But I guess 15 psi is a lot lower than what's produced that way. They did puff out nicely in the chamber, but when they failed, they just kinda gradually ripped open and slowly deflated.

73 de Mike W5VSI

Harry M wrote:
>
>
> Those are some tough bubbles! It would be interesting to see a pic at
> altitude to see how big the bubbles get. On the ORB-7 flight that went
> to an estimated 50-60kft I flew a pong-sat that had some micro-balloons.
> Some were just taped to a piece of cardboard others were mixed 50-50
> with epoxy. The ones in epoxy survived, but the ones that were just
> taped to cardboard were all broken.
>
> 73 Harry
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
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> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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Mike Manes manes@... Tel: 303-979-4899
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2107. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 04:20:21 UTC
From: Mike Manes
Topic: 2093 Message: 2107

Hi Joe,

Well, we never get down to 5 x10^-4 Torr. Normal MSL pressure
is 1013 mbar or 760 Torr or 29.92 inHg or 1000 HPa - wotever.
As a rule of thumb, the barometric pressure on Earth drops by
a factor of 10 every 50,000 ft. So at 50K', it's about 100 mbar or
76 Torr, and at 100K', it's 10 mbar or 7.6 Torr. (BTW, Torr = mmHg).

5 x10^-4 Torr is the baro at about 315,000 ft MSL - the REAL edge of
space.

73 de Mike W5VSI

Joe wrote:
> Hey everyone, I have a question,,
>
> I'm horrible in math,,so here's the question,
>
> at average altitudes,, say between 80K and 100K how much is the vacuum
> at that altitude, not in millibars,, or psi's but in torrs
>
> in other words, at say 90K is there more air at that pressure level,,
> or at this figure,,,,
>
> 5 x 10(-4) torr
>
> I always hated that negative exponent stuff.
>
> so with that number,, which has more air molecules, 90K or a vacuum level of
> 5 x 10(-4) torr,, and how much difference is it?
>
>
> Joe
> 5 x 10(-4) torr
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2108. RE: [Fwd: [GPSL] Opinions on GPSL 2006 - I need some feedback]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 12:03:10 UTC
From: Roger Hammond
Topic: 2092 Message: 2108

Zack,

We'll gladly pay the $25 per group, or the $5 per individual.

Rog - KC0MWM
CNNSP

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Zack Clobes
Sent: Tuesday, March 14, 2006 9:23 PM
To: Group GPSL
Subject: [Fwd: [GPSL] Opinions on GPSL 2006 - I need some feedback]

Here's my email that I sent out back in November that should help refresh people's memories.

I'm looking at $25 per group who attends the Symposium to cover those costs. We could also do a $5 per head, but like I said, I'm afraid of scaring off someone who would otherwise check us out.

Zack

-------- Original Message -------- Subject: [GPSL] Opinions on GPSL 2006 - I need some feedback
Date: Mon, 14 Nov 2005 17:18:03 -0600
From: Zack Clobes <zclobes@...>
Reply-To: GPSL@yahoogroups.com
To: group gpsl <GPSL@yahoogroups.com>

As was decided over the past couple of months, GPSL 2006 will be held in Hutchinson, KS on the weekend of 4-6 August. We plan on following the traditional schedule of symposium on Friday (4 Aug), flight on Saturday morning, and a rain-date of Sunday morning.

Hutchinson has a brand new (more or less, it's a long story) convention center in town that is part of a nice hotel, and includes an indoor water park. (http://www.grandprairiehotel.com/)

I have contacted Grand Prairie regarding use of a conference room. It basically boils down $125 for the Symposium on Friday, assuming we eat a meal or two at the restaurant. The obvious choices for that meal would be the Thursday evening "gathering" and the Friday lunch.

"Group" room rates are $79 + tax per room night. This includes access to the water park as well as high-speed Internet. We would be expected to reserve approximately 30 rooms for Friday night.

Food prices a little on the high end - think Applebees + 20%, although the serving size is probably 20% larger also. And very good food I might add.

They've agreed to provide water, and allow us to supply our own candy dishes during the Symposium. There is the restaurant that is 100' down the hall, and also a pop and ?candy? machine on premises.

THE QUESTION IS, DOES THE GROUP WANT TO COMMIT TO SPENDING MONEY FOR THIS EVENT? I will keep prices as low as possible, but I'm toying with the thought of charging each flying group a ?$25? "landing fee" to attend the event.

Zack Clobes, W0ZC
Project: Traveler

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2109. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 14:17:11 UTC
From: PAUL VERHAGE
Topic: 2093 Message: 2109

My first flight (to 90,200 feet) carried bubble wrap, both large and small bubbles. In my test, they all came back intact.

Paul

2110. EOSS vacuum chamber

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 16:59:54 UTC
From: Hank
Topic: 2093 Message: 2110

> Good enough to give you an idea of what it looks like
> and what it does. The digital guage reads in Torr (mmHg), as does
> the W&T 0-50 guage inside.

Mike,

Thanks very much. The pictures are good enough to make me
marvel at what kind of instrument EOSS has!

I'm sure there are many inquiring minds who would like to
know more of the story about how this rig came to be. If
this was made from components, and the chamber made by someone
in EOSS, my compliments to all involved.

For starters, how thick are the chamber walls and what
specific type vacuum gauge is the digital one? How long has
EOSS had this contraption?

Hank

2111. Re: [GPSL] Re: Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 18:07:43 UTC
From: John C Nordlie
Topic: 2093 Message: 2111

Very nice, Mike! Well done. Here's some pics of a chamber our group
built from PVC pipe and polycarbonate sheet. Doesn't pull as good a
vacuum as yours though (equiv 70K feet max for ours):

http://blizzard.rwic.und.edu/~nordlie/vacuum_chamber/

==
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==

On Wed, 15 Mar 2006, Mike Manes wrote:

> Hi Hank,
>
> Well, t'aint much to look at -- but I think Merle might have
> taken some high res digital shots of it in an early stage of
> completion, and those may be somewhere on the EOSS web site - Rick?
>
> I just took these snaps with my crummy little webcam, attached
> as 4 jpegs. Good enough to give you an idea of what it looks like
> and what it does. The digital guage reads in Torr (mmHg), as does
> the W&T 0-50 guage inside. The Stokes guage is considered a primary
> standard, and as you can see, the actual max vacuum is about 0.5 Torr.
>
> 73 de Mike W5VSI
> EOSS
>
> Hank wrote:
> >>The chamber uses a 1/5 HP Welch vane pump.
> > >
> > >
> > > Mike,
> > >
> > > If you could some day favor us with pictures of the HASTCF,
> > > that would be great.
> > >
> > > HASTF: High Altitude Simulation Test Chamber Facilty
> > >
> > > Hank
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> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A. Einstein
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2112. On-Line Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 20:59:29 UTC
From: Troy Campbell
Topic: 2112 Message: 2112

All,

We've written a balloon track program in perl and published it on our web site. It's based (roughly) on the original gwBasic program by Bill Brown, WB8ELK. Rick von Glahn tells me that Balloon Track for Windows is based on the same code and it appears that the resulting course tracks are very similar.

The biggest advantage is that you don't do any cutting a pasting, etc to get weather data. It uses www.noaa.gov/ready/cment.html for it's data source and doesn't require much manual intervention. That's also the downside. You can't enter your own data. (We're working on that.) The Google Maps(tm) interface is very good (thanks to Keith Kaiser, WA0TJT) and you can download a TNC formatted file or XML file. The track file is in GPS text format, but we hope to have a an APRS formatted version this summer. We also are planning to enable uploading existing track files an plot them.

Now if I could just get a T-1, or cable or DSL in my chase vehicle.....

Anyway, you may find it useful or at least mildly amusing.

It's at http://nearspaceventures.com/w3Baltrak/readyget.pl

Troy, KC0MIC

Relax. Yahoo! Mail virus scanning helps detect nasty viruses!

2113. RE: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 21:15:09 UTC
From: Rick von Glahn
Topic: 2093 Message: 2113

Hmmm,

When I saw Mike's comment/review about the bubbles, I thought it might be nice to have a spreadsheet that calculated a bunch of balloon related pressure altitude stuff. I don't speak Torr and wanted to figure out pressure values in other measurement systems. So, I made one:

http://www.eoss.org/balsoft.htm ... bottom of page.

It thinks:

12.74669507 Torr = 90,000 feet

Attributions for formulae and conversion factors on the spreadsheet. If I've massively messed up somewhere let me know but apparently there is still a whole number component to Torr values at 90K, not a minuscule fractional amount. I'm pretty sure that's right. It falls into line with the 1.2 Torr Mike was mentioning for > 140K feet (according to the SS, 1.2 Torr is actually 142185.5643).

Oh yeah, it's all based on a standard atmosphere too. Something that never happens so all the figures will be approximations when computing for pressure from altitude or vice versa.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Joe
> Sent: Wednesday, March 15, 2006 8:24 PM
> To: GPSL@yahoogroups.com; WB8ELK
> Subject: Re: [GPSL] Bubble wrap survival at altitude
>
> Hey everyone, I have a question,,
>
> I'm horrible in math,,so here's the question,
>
> at average altitudes,, say between 80K and 100K how much is
> the vacuum at that altitude, not in millibars,, or psi's but in torrs
>
> in other words, at say 90K is there more air at that
> pressure level,, or at this figure,,,,
>
> 5 x 10(-4) torr
>
> I always hated that negative exponent stuff.
>

> so with that number,, which has more air molecules, 90K or
> a vacuum level of
> 5 x 10(-4) torr,, and how much difference is it?
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> Joe
> 5 x 10(-4) torr
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> Yahoo! Groups Links
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> _____ NOD32 1.1446 (20060316) Information _____
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> This message was checked by NOD32 antivirus system.
> http://www.eset.com
>
>

2114. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 22:07:55 UTC
From: Joe
Topic: 2093 Message: 2114

Hi Mike,,

Ok, Like wow,, Ok, not even close,, I was thinking on this Vacuum thing,, remember the conversation a while ago about the vacuum and corona arcing of like a strobe?

That led to more thinking about vacuum,, forgive the crazy mind here,, then begun thinking of heat transfer or loss in payloads... and of course the 3 methods,, two are easy to control, but the transfer due to cooling by cold air I began to wonder how much can this cold air really cool things when it is so thin at cruising altitudes.

so i thought some more,, and thought of a thermos.. ya know a real one with the glass liner and all that..

I contacted them and asked what level of vacuum in actually in them,, and here is their reply,,

""

Dear Joe,
The minimum vacuum required is on the order of 5 x 10(-4) torr, bottles have a vacuum of 5 x 10(-6) or better after processing. 760 torr = 1 atmosphere. What happens is that the heat is transferred from molecule to molecule, which are moving about (brownian motion, the amount of movement is greater with greater temperature). More vacuum=fewer molecules. When the 5 x 10(-4) vacuum is achieved, the molecules are few enough that they don't run into each other.

You could demonstrate by using a row of students to illustrate, letting the class walls be the thermos bottle walls. A slip of paper is "heat". The students can only lean, but not step to pass the "heat". As the "vacuum" is pulled, students are removed from the line, and the rest space themselves out. When the proper "vacuum" is achieved, the students can't pass the "heat".

It always helps to have engineers available to answer this type of question.

Hope this helps.""

John Golden

now the exponent crap always bugged me,, hence the question,, but was thinking,, are we fooling ourselves with all this insulation,, if it's already in a good enough vacuum..

But from the numbers you just crunched,, i guess not,, what I did find tho is that AIR is actually an excellent insulator if you can keep it from moving around to exchange the heat energy.

I found the btu transfer at sea level density,, and at like 50% density was almost negligible., even all the way to like 1% pressure level made very little difference.. so it may seem the whole key to keeping the payload warm is to keep the air from moving at all.

Ok,, how is areogel made?

How about a payload encased in aerogel? talk about an airtight system

Joe

Mike Manes wrote:

> Hi Joe,
>
> Well, we never get down to 5 x10^-4 Torr. Normal MSL pressure
> is 1013 mbar or 760 Torr or 29.92 inHg or 1000 HPa - wotever.
> As a rule of thumb, the barometric pressure on Earth drops by
> a factor of 10 every 50,000 ft. So at 50K', it's about 100 mbar or
> 76 Torr, and at 100K', it's 10 mbar or 7.6 Torr. (BTW, Torr = mmHg).
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> 5 x10^-4 Torr is the baro at about 315,000 ft MSL - the REAL edge of
> space.
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> 73 de Mike W5VSI
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> Joe wrote:
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w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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2115. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 22:20:41 UTC
From: PAUL VERHAGE
Topic: 2093 Message: 2115

I find making the exterior color of the spacecraft black keeps it about 15 degrees warmer. I have an article on this on ATV Q from a few years ago. The Styrofoam airframe does a pretty good job also. An aluminum should be good because it has such a low emissivity (for what ever heat manages to get in). That's why we cover our potatoes in aluminum foil when baking them.

The interior temperature of my airframes doesn't drop below freezing until after balloon burst. The wind chill then pulls some heat out for a while.

Paul

>>> nss@... 3/16/2006 3:07:55 pm >>>
Hi Mike,,

Ok, Like wow,, Ok, not even close,, I was thinking on this Vacuum thing,, remember the conversation a while ago about the vacuum and corona arcing of like a strobe?

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John Golden

now the exponent crap always bugged me,, hence the question,, but was thinking,, are we fooling ourselves with all this insulation,, if it's already in a good enough vacuum..

But from the numbers you just crunched,, i guess not,, what I did find tho is that AIR is actually an excellent insulator if you can keep it from moving around to exchange the heat energy.

I found the btu transfer at sea level density,, and at like 50% density was almost negligible., even all the way to like 1% pressure level made very little difference.. so it may seem the whole key to keeping the payload warm is to keep the air from moving at all.

Ok,, how is areogel made?

How about a payload encased in aerogel? talk about an airtight system

Joe

Mike Manes wrote:

> Hi Joe,
>
> Well, we never get down to 5 x10^-4 Torr. Normal MSL pressure
> is 1013 mbar or 760 Torr or 29.92 inHg or 1000 HPa - wotever.
> As a rule of thumb, the barometric pressure on Earth drops by
> a factor of 10 every 50,000 ft. So at 50K', it's about 100 mbar or
> 76 Torr, and at 100K', it's 10 mbar or 7.6 Torr. (BTW, Torr =
mmHg).
>
> 5 x10^-4 Torr is the baro at about 315,000 ft MSL - the REAL edge of
> space.
>
> 73 de Mike W5VSI
>
> Joe wrote:
> > Hey everyone, I have a question,,
> >
> > I'm horrible in math,,so here's the question,
> >
> > at average altitudes,, say between 80K and 100K how much is the

vacuum
> > at that altitude, not in millibars,, or psi's but in torrs
> >
> > in other words, at say 90K is there more air at that pressure
> level,,
> > or at this figure,,,,
> >
> > 5 x 10(-4) torr
> >
> > I always hated that negative exponent stuff.
> >
> > so with that number,, which has more air molecules, 90K or a
> vacuum level of
> > 5 x 10(-4) torr,, and how much difference is it?
> >
> >
> > Joe
> > 5 x 10(-4) torr
> >
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> >
> > Yahoo! Groups Links
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> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
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<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>

> Craft hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>

> Ham radio
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<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3
=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>

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> YAHOO! GROUPS LINKS
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> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>"
on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
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2116. Re: [GPSL] Re: Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 23:09:30 UTC
From: Mike Manes
Topic: 2093 Message: 2116

Hi John,

I'm sure that your chamber would work great given a better pump.
Ours should leak like a seive, by all rights.

Sure took us a looooooooong time to find a pump that would hit 10 mbar -
and this one does it in spades!

73 de Mike W5VSI

John C Nordlie wrote:
> Very nice, Mike! Well done. Here's some pics of a chamber our group
> built from PVC pipe and polycarbonate sheet. Doesn't pull as good a
> vacuum as yours though (equiv 70K feet max for ours):
>
> http://blizzard.rwic.und.edu/~nordlie/vacuum_chamber/
>
> ==
> John Nordlie N0RNB | Regional Weather Information Center
> nordlie@... | University of North Dakota
> http://blizzard.rwic.und.edu/~nordlie/
> ==
>
> On Wed, 15 Mar 2006, Mike Manes wrote:
>
>
>>Hi Hank,
>>
>>Well, t'aint much to look at -- but I think Merle might have
>>taken some high res digital shots of it in an early stage of
>>completion, and those may be somewhere on the EOSS web site - Rick?
>>
>>I just took these snaps with my crummy little webcam, attached
>>as 4 jpegs. Good enough to give you an idea of what it looks like
>>and what it does. The digital guage reads in Torr (mmHg), as does
>>the W&T 0-50 guage inside. The Stokes guage is considered a primary
>>standard, and as you can see, the actual max vacuum is about 0.5 Torr.
>>
>>73 de Mike W5VSI
>>EOSS
>>
>>Hank wrote:
>>
>>>>The chamber uses a 1/5 HP Welch vane pump.
>>>
>>>

>>>Mike,
>>>
>>>If you could some day favor us with pictures of the HASTCF,
>>>that would be great.
>>>
>>>HASTF: High Altitude Simulation Test Chamber Facilty
>>>
>>>Hank
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>>>Yahoo! Groups Links
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>>Mike Manes manes@... Tel: 303-979-4899
>>"Things should be made as simple as possible, but not more so." A. Einstein
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Mike Manes manes@... Tel: 303-979-4899
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2117. Re: [GPSL] EOSS vacuum chamber

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 22:39:49 UTC
From: Mike Manes
Topic: 2093 Message: 2117

Hi Hank,

Well, EOSS has had the chamber itself for at least 10 years. It was donated by one of our charter members, Andy Kellet N0???, who got from a smoke detector mfr, who reputedly was using it to test their products.

It's made from 3/8" thick acrylic or polycarbonate sheet with dadoed joints bonded and sealed with clear epoxy. The 2 smaller chambers at the bottom are sealed off from the larger upper chamber. The threaded rods suggest that the chamber was originally intended to be pressurized rather than evacuated. The lid is removable, and it's sealed to the chamber top flange using 1" x 1/4" adhesive-backed common houshold weather strip. I'm amazed that it holds the vacuum that it does so well, but once the lid is seated, the weather strip compresses nicely.

The Welch vacuum pump was acquired last summer after many years of searching from a local surplus industrial equipment distributor where one of our members works and which is owned by a cousin of one of my college fraternity brothers. Wotta find!

The lower cabinet was cut down from an old rust-bucket rack cabinet that another EOSS member donated. A few hours with a wire brush and 3 coats of Rust-O-leum got it into shape, and 4 rubber casters makes moving it about easy.

The Wallace & Tiernan 0-50 Torr absolute vacuum guage was picked up for $10 from a hamfest. A bargain until I learned that reads about 15% low. I was able to zero it in, however. The Stokes guage was another donation thru another member who retired from the metrology profession.

I must tell you that it was with great trepidation that I first applied the pump to the chamber - I had no idea whether it would withstand the external pressure. I'd heard about the damage that an imploding TV picture tube could do, and had nightmarish visions of a scene from 9/11 rushing thru my fevered brain.

So I set it up in my basement laundry room and covered it with several thick blankets. I ran long rubber tube from the chamber sample port to the guage so I could read it whilst hiding behind the door to the room, and controlled the pump via it's power cord and an extension cord. My fears abated when I read nearly full vacuum with no intervening spooky sounds. After three such runs, I dared to remove the blankets and watch the chamber from inside the room. The lid, which is just a flat sheet, did visibly deform by about 1/16", but recovered nicely.

The most recent addition was some teflon feedthrus to provide for electrical sigs in and out. They are pressed into drilled holes 0.01" undersized and appear to seal just fine.

The external digital guage uses the same Honeywell/Microswitch 142PC15A pressure transducer used in AE0SS-11, along with some passive offset and scaling circuitry to make it read either Torr or mbar on a 200 mV FS 3.5 digit DPM. Zero is adjusted referencing the Stokes guage, which tops out at 50 Torr, and scale is set using NWS radio barometer reports with an altitude correction from MSL.

Pretty handy tool. First use was to characterize some surplus anaeroid cells from surplus VIZ radiosondes. Turns out that despite their 2 in^2 area, the ends deflect only about 0.16" from mile high ambient here (610 Torr) to 1 Torr. Pretty stiff! OK for the baroswitch we use in the ATV module. I think I know how to use one to arm the load-dump-sensing release mechanism that we flew on EOSS-101, but still need a round tuit ... :=}

BTW, wanna know how a watch works? Just ask for the time ...

73 de Mike W5VSI

Hank wrote:
>>Good enough to give you an idea of what it looks like
>>and what it does. The digital guage reads in Torr (mmHg), as does
>>the W&T 0-50 guage inside.
>
>
>
> Mike,
>
> Thanks very much. The pictures are good enough to make me
> marvel at what kind of instrument EOSS has!
>
> I'm sure there are many inquiring minds who would like to
> know more of the story about how this rig came to be. If
> this was made from components, and the chamber made by someone
> in EOSS, my compliments to all involved.
>
> For starters, how thick are the chamber walls and what
> specific type vacuum gauge is the digital one? How long has
> EOSS had this contraption?
>
> Hank
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> Yahoo! Groups Links

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2118. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 21:47:38 UTC
From: Mike Manes
Topic: 2093 Message: 2118

Hi Paul,

I have no doubt that there are many makers of bubble wrap, and that
the materials and quality may vary widely. It's good to know that
ARHAB others have good luck.

BTW, was your bubble wrap external to the payload?

73 de Mike W5VSI
EOSS

PAUL VERHAGE wrote:
> My first flight (to 90,200 feet) carried bubble wrap, both large and
> small bubbles. In my test, they all came back intact.
>
> Paul
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2119. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 23:44:09 UTC
From: Mike Manes
Topic: 2093 Message: 2119

Hi Rick,

Altho yer right about the standard conditions rarely applying, the
good news is that the FAA also recognizes that. This is why all
aircraft altitudes above 18,000 ft MSL, where jets fly, are stated
as Flight Level (FL), in 100's of ft. AND ... this is important,
FL is read on a normal barometric altimeter by setting the Kollsman
window, used for correcting the altimeter for local barometric pressure,
to 29.92 inHg - or standard MSL pressure. This avoids having to
continuously get the local baro reading and tweaking it into the
Kollsman during long-distance flights, which would be necessary to
ensure that two aircraft that are using different Kollsman settings
and showing that they've got 1000' vertical separation aren't
actually at the same altitude. The pilot just has to remember to
set 29.92 when climbing thru FL180.

So if a balloon is relying on a baro reading for altitude, then
there's no need to tweak for local baro pressure above 18K' for
FAA reports. It also means that the exquisitely precise-looking
GPS altitude, referenced to MSL, may not be perzactly what an
airliner at the same altitude is reading. But since our balloons
are constantly climbing or descending at least a few hundred feet
per minute, by the time the FAA sees the reading, it's wrong.

Minor point.

BTW, the order-of-magnitude per 50K' rule of thumb does work pretty
well for SWAGs.

73 de Mike W5VSI

Rick von Glahn wrote:
> Hmmm,
>
> When I saw Mike's comment/review about the bubbles, I thought it might be nice
> to have a spreadsheet that calculated a bunch of balloon related pressure
> altitude stuff. I don't speak Torr and wanted to figure out pressure values in
> other measurement systems. So, I made one:
>
> http://www.eoss.org/balsoft.htm ... bottom of page.
>
> It thinks:
>
> 12.74669507 Torr = 90,000 feet
>
> Attributions for formulae and conversion factors on the spreadsheet. If I've

> massively messed up somewhere let me know but apparently there is still a
> whole number component to Torr values at 90K, not a minuscule fractional
> amount. I'm pretty sure that's right. It falls into line with the 1.2 Torr
> Mike was mentioning for > 140K feet (according to the SS, 1.2 Torr is actually
> 142185.5643).
>
> Oh yeah, it's all based on a standard atmosphere too. Something that never
> happens so all the figures will be approximations when computing for pressure
> from altitude or vice versa.
>
> 73 -- Rick, N?KKZ
>
>
>
>
>>-----Original Message-----
>>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
>>Behalf Of Joe
>>Sent: Wednesday, March 15, 2006 8:24 PM
>>To: GPSL@yahoogroups.com; WB8ELK
>>Subject: Re: [GPSL] Bubble wrap survival at altitude
>>
>>Hey everyone, I have a question,,
>>
>>I'm horrible in math,,so here's the question,
>>
>>at average altitudes,, say between 80K and 100K how much is
>>the vacuum at that altitude, not in millibars,, or psi's but in torrs
>>
>>in other words, at say 90K is there more air at that
>>pressure level,, or at this figure,,,,
>>
>>5 x 10(-4) torr
>>
>>I always hated that negative exponent stuff.
>>
>>so with that number,, which has more air molecules, 90K or
>>a vacuum level of
>>5 x 10(-4) torr,, and how much difference is it?
>>
>>
>>Joe
>>5 x 10(-4) torr
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>>Yahoo! Groups Links
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>>_____ NOD32 1.1446 (20060316) Information _____
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>>This message was checked by NOD32 antivirus system.
>>http://www.eset.com
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2120. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-16 23:59:47 UTC
From: Mike Manes
Topic: 2093 Message: 2120

Hi Joe,

You do bring up a good point that we in ARHAB should consider:
a heat sink that works well to keep a power-hog transistor, such
as the modulator in an AM ATV xmtr, cool at sea level is not
gonna work nearly as well at 10 mbar.

Although I've never fried that part in flight, Norm Kjome tells of
some scientific payloads that have suffered from that effect.

So to be on the safe side, I rely on radiative rather than convective
heat transfer for my heat sinks. Turns out that unfinished aluminum
is a great radiator at far IR - better than the black anodize we
usually see. Radiative heat transfer varies as the 4th power of
absolute temperature difference - so if you aim your heatsink skyward
(but NOT towards the sun) it'll work great.

BTW, this poor convection at altitude also exacerbates self-heating
errors in outside air temperature measurements. This is why we
commonly see OAT readings at altitude a bit higher during 1000 fpm
ascent than during 10,000 fpm descent. The faster air does improve
convective heat transfer, just like a cooling fan on a Pentium.

73 de Mike W5VSI

Joe wrote:
> Hi Mike,,
>
> Ok, Like wow,, Ok, not even close,, I was thinking on this Vacuum
> thing,, remember the conversation a while ago about the vacuum and
> corona arcing of like a strobe?
>
> That led to more thinking about vacuum,, forgive the crazy mind here,,
> then begun thinking of heat transfer or loss in payloads... and of
> course the 3 methods,, two are easy to control, but the transfer due
> to cooling by cold air I began to wonder how much can this cold air
> really cool things when it is so thin at cruising altitudes.
>
> so i thought some more,, and thought of a thermos.. ya know a real one
> with the glass liner and all that..
>
> I contacted them and asked what level of vacuum in actually in them,,
> and here is their reply,,
>
> ""
>

> Dear Joe,
> The minimum vacuum required is on the order of 5 x 10(-4) torr, bottles have a vacuum of 5 x 10(-6) or better after processing. 760 torr = 1 atmosphere. What happens is that the heat is transferred from molecule to molecule, which are moving about (brownian motion, the amount of movement is greater with greater temperature). More vacuum=fewer molecules. When the 5 x 10(-4) vacuum is achieved, the molecules are few enough that they don't run into each other.
>
> You could demonstrate by using a row of students to illustrate, letting the class walls be the thermos bottle walls. A slip of paper is "heat". The students can only lean, but not step to pass the "heat". As the "vacuum" is pulled, students are removed from the line, and the rest space themselves out. When the proper "vacuum" is achieved, the students can't pass the "heat".
>
> It always helps to have engineers available to answer this type of question.
>
> Hope this helps.""
>
> John Golden
>
> now the exponent crap always bugged me,, hence the question,, but was thinking,, are we fooling ourselves with all this insulation,, if it's already in a good enough vacuum..
>
> But from the numbers you just crunched,, i guess not,, what I did find tho is that AIR is actually an excellent insulator if you can keep it from moving around to exchange the heat energy.
>
> I found the btu transfer at sea level density,, and at like 50% density was almost negligible., even all the way to like 1% pressure level made very little difference.. so it may seem the whole key to keeping the payload warm is to keep the air from moving at all.
>
>
> Ok,, how is areogel made?
>
> How about a payload encased in aerogel? talk about an airtight system
>
> Joe
>
>
> Mike Manes wrote:
>
>> Hi Joe,
>>
>> Well, we never get down to 5 x10^-4 Torr. Normal MSL pressure
>> is 1013 mbar or 760 Torr or 29.92 inHg or 1000 HPa - wotever.
>> As a rule of thumb, the barometric pressure on Earth drops by
>> a factor of 10 every 50,000 ft. So at 50K', it's about 100 mbar or
>> 76 Torr, and at 100K', it's 10 mbar or 7.6 Torr. (BTW, Torr = mmHg).
>>
>> 5 x10^-4 Torr is the baro at about 315,000 ft MSL - the REAL edge of

>> space.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>> > Hey everyone, I have a question,,
>> >
>> > I'm horrible in math,,so here's the question,
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>> > at that altitude, not in millibars,, or psi's but in torrs
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>> > in other words, at say 90K is there more air at that pressure
>> level,,
>> > or at this figure,,,,
>> >
>> > 5 x 10(-4) torr
>> >
>> > I always hated that negative exponent stuff.
>> >
>> > so with that number,, which has more air molecules, 90K or a
>> vacuum level of
>> > 5 x 10(-4) torr,, and how much difference is it?
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>> > Joe
>> > 5 x 10(-4) torr
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>> Mike Manes manes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so." A.
>> Einstein
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> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
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> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2121. Re: [GPSL] On-Line Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 03:33:04 UTC
From: Mark Conner
Topic: 2112 Message: 2121
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2122. Re: [GPSL] On-Line Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 03:51:16 UTC
From: Troy Campbell
Topic: 2112 Message: 2122
Attachments: 1 described; binary payloads are missing from this source WARC

Mark,

That's not what you should see. It does have the track and the distance/bearing line is way out of wack.

I've attached a screen shot of a prediction I just ran.

I'm going to go out on a limb and blame it on IE vs Google.

We tested it on IE but not older versions and not on XP.

You might not what to do this but you might try downloading FireFox. It runs everything and ON everything.

I'll pass this to Keith, who works on the maps and see what he says.

Troy, KC0MIC

Mark Conner <mconner1@...> wrote: Troy,

Great job! Looking forward to using this.

I attached a screen shot of the results. Is this what I'm supposed to see? The direction/distance to landing seems a little hard to read, and I'm not seeing the red/green ascent/descent track.

73 de Mark N9XTN

On 3/16/06, Troy Campbell <kc0mic@...> wrote: All,

We've written a balloon track program in perl and published it on our web site. It's based (roughly) on the original gwBasic program by Bill Brown, WB8ELK. Rick von Glahn tells me that Balloon Track for Windows is based on the same code and it appears that the resulting course tracks are very similar.

The biggest advantage is that you don't do any cutting a pasting, etc to get weather data. It uses www.noaa.gov/ready/cment.html for it's data source and doesn't require much manual intervention. That's also the downside. You can't enter your own data. (We're working on that.) The Google Maps(tm) interface is very good (thanks to Keith Kaiser, WA0TJT) and you can download a TNC formatted file or XML file. The track file is in GPS text format, but we hope to have a an APRS formatted version this summer. We also are planning to enable uploading existing track files an plot them.

Now if I could just get a T-1, or cable or DSL in my chase vehicle.....

Anyway, you may find it useful or at least mildly amusing.

It's at http://nearspaceventures.com/w3Baltrak/readyget.pl

Troy, KC0MIC

Relax. Yahoo! Mail virus scanning helps detect nasty viruses!

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To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com

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Yahoo! Mail
Use Photomail to share photos without annoying attachments.

2123. Re: [GPSL] On-Line Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 03:55:49 UTC
From: Troy Campbell
Topic: 2112 Message: 2123

Mark,

After looking at it few more seconds, it _could_ be that your display doesn't have enough colors set. I try not to know too much about that in relationship to windows, but it sure acts like there aren't enough colors in the pallet to display everything.

Troy, KC0MIC

Mark Conner <mconner1@...> wrote: Troy,

Great job! Looking forward to using this.

I attached a screen shot of the results. Is this what I'm supposed to see? The direction/distance to landing seems a little hard to read, and I'm not seeing the red/green ascent/descent track.

73 de Mark N9XTN

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Now if I could just get a T-1, or cable or DSL in my chase vehicle.....

Anyway, you may find it useful or at least mildly amusing.

It's at http://nearspaceventures.com/w3Baltrak/readyget.pl

Troy, KC0MIC

Relax. Yahoo! Mail virus scanning helps detect nasty viruses!

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2124. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 14:25:03 UTC
From: PAUL VERHAGE
Topic: 2093 Message: 2124

No, I tossed mine inside the near spacecraft. Thea airframe wasn't air tight, so it experienced pressures around 2-3% of mean sea level. I have students building BalloonSats. I'll talk some of them into flying bubble wrap.

Paul

>>> manes@... 3/16/2006 2:47:38 pm >>>
Hi Paul,

I have no doubt that there are many makers of bubble wrap, and that the materials and quality may vary widely. It's good to know that ARHAB others have good luck.

BTW, was your bubble wrap external to the payload?

73 de Mike W5VSI
EOSS

PAUL VERHAGE wrote:
> My first flight (to 90,200 feet) carried bubble wrap, both large and
> small bubbles. In my test, they all came back intact.
>
> Paul
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> Yahoo! Groups Links
>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

2125. august GPSL in Hutch

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 22:00:40 UTC
From: Floyd Benjie Campbell
Topic: 2125 Message: 2125

There has been some discussion on weither to charge a fee for the Friday forums to help cover the cost of having them in the hotel conference rooms. I was given the task of doing an informal survey of some of the projected attending hams from the Denver area. The information I saw earlier this week mentioned a room rate of 79.00??? per night and that is great. I spent four months last year traveling thru out the country, staying in motels and hotels most of the trip. I stayed in over 25 different hotels and I feel 79.00 a night for a good one isn't that bad. I have checked with three of the potential visiting hams and the general consensus is we can afford to pay a fee for the Friday event. It owuld be nice to stay in the hotel and have dinner at their facility and not have to drive all over an unfamiliar town to eat at a fast food place. Let's try the central location for the event and see how we all like it. So, my vote is to have the event at the convention center/ whatever and keep everything there or nearby. It is fun to have everyone stay at the same place and visit and make now friends. We did this at the Hamcon here in Estes Park two years ago and will do it again this June. It is a great eceperience and it is time the GPSL tries the same thing. Benjie W0CBH, Mike N0MPM and Randy NQ0R.

2126. Re: Expanded polystyrene enclosures and custom styrofoam enclosures

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 22:23:43 UTC
From: wb8elk@aol.com
Topic: 2126 Message: 2126

The Ozonesonde styrofoam containers are great....especially for payloads that don't generate much heat and need as much insulation as possible. The bottom part has a flange the runs around the opening of the payload space....about 2 inches of foam all around the opening. The lid fits snugly on top of the flange and there is even a couple of small opening to run wires, tubing or sensors to the outside world.

A photo of container just prior to launch can be seen at:

http://www.wb8elk.com/pastflights.htm
(http://www.wb8elk.com/pastflights.htm)

I'll try to post internal views of the box this weekend.

In the two flights I've done using this container, the inside temperature has kept above 14 degrees C (57 degrees F) even during the descent stage. The payload was only an APRS system with an Alinco DJ-S11T, Garmin GPS18 LVC and an Opentracker....the two biggest heat generators were the Garmin (I had it recessed in the lid) and the 5 volt regulator on the Opentracker that also powered the GPS-18. So not much heat generated at all and it still kept quite warm.

The only problem is that this box is a very limited resource....The only way to procure one at the moment is to track down and recover an Ozonesonde....fortunately they launch them every Saturday here in Huntsville, AL but I know of only 3 other locations (most notably Boulder, CO) and Wallops Island and occasionally somewhere in CA. They transmit near 402.5 MHz (300 baud ASCII)...but drift around quite a bit so it's a real foxhunting challenge....we've found all the ones we've attached small 2m beacons onto (Squawkbox, Microhunt or KC5TRB's ORB beacon). I've found a couple the hard way by just tracking it's 402 MHz signal, but you have to be within a mile to find it usually once it hits the ground. We have permission to attach small experiments or beacons to their flights as long as they don't weigh over a pound. (We launch the UAH Balloonsats from the Ozonesonde hangar).

The box is made either for Vaisala or ECC (the manufacturers of the Ozonesonde Pump assembly)...ECC is in Boulder so maybe EOSS can make some inquiries and see where they get their box manufactured.

- Bill WB8ELK

2127. GPS Receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 23:25:46 UTC
From: Doug Loughmiller
Topic: 2126 Message: 2127

Hi Everybody,

ARBONET is preparing for our first "solo" flight in about six weeks time. I wanted to pose a question to the group as to what GPS receivers the various groups are using. I understand that we need to be careful to select a receiver that is capable of reporting altitude above 60K feet. We already have a couple of options in hand but I wanted to see what some of you have successfully flown. I appreciate your guidance.

73,

Doug Loughmiller, W5BL

ARBONET

2128. GPS receivers at 60k ft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-17 23:49:47 UTC
From: wb8elk@aol.com
Topic: 2128 Message: 2128

Hi Doug,

I'm a big fan of the Garmin GPS-18 LVC....keep in mind it's a 5 volt unit....their PC version has a regulator built into the cigarette lighter plug and is essentially the same unit....the only thing is that I'd wrap the serial cable through a toroid or use an externally clamped ferrite shell to help against RF interference if you are using ATV. The GPS35 and the Motorola units are more impervious to RF interference...however, that being said, the GPS-18 is extremely lightweight and self contained...extremely easy to set up and only draws 60 mA...the other units draw considerably more than that.

http://www.gps4fun.com (http://www.gps4fun.com)

has good prices on these.

Also the Garmin GPS35 works fine and the Motorola M12+ but I think it's been discontinued....the VP Oncore works fine too and you can find it surplus fairly cheaply.

Ralph Wallio W0RPK has a web page devoted to what works and what doesn't.

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm (http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm)

- Bill WB8ELK

2129. HiBall 8 payload has been returned

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 00:38:35 UTC
From: wb8elk@aol.com
Topic: 2129 Message: 2129

I just got the HiBall8 payload back in the mail today with a note thanking me for the beer money (the Reward).

Everything except for the styrofoam box (former ozonesonde box) is in good shape. The box appears to have suffered more from the curiosity of the inebriated finders and the subsequent joyride through Georgia on a Saturday night than it did during the actual flight....there's a large knife gash in the side of the payload where they tried to open it up until they figured out how the lid was attached.

- Bill WB8ELK

2130. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 01:48:33 UTC
From: Mike Manes
Topic: 2093 Message: 2130

OK, then the bubble wrap was insulated and mechanically protected by
what I assume was a lunch cooler airframe? Or some such? Mike

PAUL VERHAGE wrote:
> No, I tossed mine inside the near spacecraft. Thea airframe wasn't air
> tight, so it experienced pressures around 2-3% of mean sea level. I
> have students building BalloonSats. I'll talk some of them into flying
> bubble wrap.
>
> Paul
>
>
>>>>manes@... 3/16/2006 2:47:38 pm >>>
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> Hi Paul,
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> I have no doubt that there are many makers of bubble wrap, and that
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> BTW, was your bubble wrap external to the payload?
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> 73 de Mike W5VSI
> EOSS
>
> PAUL VERHAGE wrote:
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>>My first flight (to 90,200 feet) carried bubble wrap, both large and
>>small bubbles. In my test, they all came back intact.
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>>Paul
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2131. Re: [GPSL] Re: Expanded polystyrene enclosures and custom styrofoam enclosures

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 02:50:58 UTC
From: Mike Manes
Topic: 2126 Message: 2131

Hi Bill,

As you prolly know, I'm a proponent of custom-built payload enclosures using foamcore board. It's cheap, commonly available, provides adequate insulation for every payload that EOSS flies and is robust enough to survive quite a few rough landings. And since it's designed to accomodate the specific components of the payload, it's neither too large (and draggy) or too small. And fine 3D features are easy to incorporate without resorting to a milling machine or gouging out a cavity with a knife. It even accomodates captive threaded fasteners in the form of T-nuts secured with hot melt glue. I've even built in PC board slots in some payloads using 0.12" board.

I use 0.35" thick board for the external walls, reinforced and waterproofed with a coat of loud-colored Krylon. The coldest recorded internal temp was -10C, and we've never encountered a low-temp failure. If additional insulation is deemed necessary, one can use thicker foamcore or add chunks of building-grade stryofoam internally.

Steve KC0YA recently designed and built his own foamcore housing for his APRS module. He tells me that it was fun and easy --- right Steve? :=}

The piece on the subject that I presented at the EOSS-13 symposium in Denver has been updated and is downloadable from the EOSS web site.

73 de Mike W5VSI

wb8elk@... wrote:
> The Ozonesonde styrofoam containers are great....especially for payloads
> that don't generate much heat and need as much insulation as possible.
> The bottom part has a flange the runs around the opening of the payload
> space....about 2 inches of foam all around the opening. The lid fits
> snugly on top of the flange and there is even a couple of small opening
> to run wires, tubing or sensors to the outside world.
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> A photo of container just prior to launch can be seen at:
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> http://www.wb8elk.com/pastflights.htm
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> I'll try to post internal views of the box this weekend.
>
> In the two flights I've done using this container, the inside

> temperature has kept above 14 degrees C (57 degrees F) even during the
> descent stage. The payload was only an APRS system with an Alinco
> DJ-S11T, Garmin GPS18 LVC and an Opentracker....the two biggest heat
> generators were the Garmin (I had it recessed in the lid) and the 5 volt
> regulator on the Opentracker that also powered the GPS-18. So not much
> heat generated at all and it still kept quite warm.
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> The only problem is that this box is a very limited resource....The only
> way to procure one at the moment is to track down and recover an
> Ozonesonde....fortunately they launch them every Saturday here in
> Huntsville, AL but I know of only 3 other locations (most notably
> Boulder, CO) and Wallops Island and occasionally somewhere in CA. They
> transmit near 402.5 MHz (300 baud ASCII)...but drift around quite a bit
> so it's a real foxhunting challenge....we've found all the ones we've
> attached small 2m beacons onto (Squawkbox, Microhunt or KC5TRB's ORB
> beacon). I've found a couple the hard way by just tracking it's 402 MHz
> signal, but you have to be within a mile to find it usually once it hits
> the ground. We have permission to attach small experiments or beacons to
> their flights as long as they don't weigh over a pound. (We launch the
> UAH Balloonsats from the Ozonesonde hangar).
>
> The box is made either for Vaisala or ECC (the manufacturers of the
> Ozonesonde Pump assembly)...ECC is in Boulder so maybe EOSS can make
> some inquiries and see where they get their box manufactured.
>
> - Bill WB8ELK
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> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
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> the web.
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2132. Re: [GPSL] HiBall 8 payload has been returned

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 03:20:51 UTC
From: Mike Manes
Topic: 2129 Message: 2132

YEEE-haw! Be glad they didn't treat it like a quail-huntin'
lawyer .. :=}

73 de Mike W5VSI

wb8elk@... wrote:
> I just got the HiBall8 payload back in the mail today with a note
> thanking me for the beer money (the Reward).
>
> Everything except for the styrofoam box (former ozonesonde box) is in
> good shape. The box appears to have suffered more from the curiosity of
> the inebriated finders and the subsequent joyride through Georgia on a
> Saturday night than it did during the actual flight....there's a large
> knife gash in the side of the payload where they tried to open it up
> until they figured out how the lid was attached.
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> - Bill WB8ELK
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> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
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Mike Manes manes@... Tel: 303-979-4899
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2133. Re: [GPSL] GPS Receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 03:14:05 UTC
From: Mike Manes
Topic: 2126 Message: 2133

Hi Doug,

EOSS has had good luck with Rockwell Jupiter receivers, reported
available off the internet for as little as $25. But be careful
to the first gen engines - they top out at 65K'. The 2nd gen
versions are speced to 40km (130K ft), and we've taken them to
over 117K' with good 3D reports.

Steve KC0YA can give you the mfr dates and firmware versions to
look for.

They run from +5Vdc at about 150mA and require an external antenna.
We use the Micropulse VIZ radiosonde flex circuit quad helix with
good results. If you use this antenna, be SURE to keep it inside
the original pill bottle! We also clip off the fragile flex circuit
stripline feeder and replace it with 3 - 6" of RG174 termniated in
an MCX coax connector for the Jupiter. Somewhat better tracking
can be acheived using a gain patch, but it's heavier, mainly
because the coax feedline must be kept full length to avoid overloading
the Jupiter front end. And it adds 50mA to the current drain.

The Garmin Etrex has also been used successfully, but it requires
a mod to power up when external power is applied. The mod is on
the EOSS web site. And it's a bit heavier than the Jupiter, but
does incorporate a patch antenna.

73 de Mike W5VSI
EOSS

Doug Loughmiller wrote:
> Hi Everybody,
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>
> ARBONET is preparing for our first ?solo? flight in about six weeks
> time. I wanted to pose a question to the group as to what GPS receivers
> the various groups are using. I understand that we need to be careful to
> select a receiver that is capable of reporting altitude above 60K feet.
> We already have a couple of options in hand but I wanted to see what
> some of you have successfully flown. I appreciate your guidance.
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> 73,
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> Doug Loughmiller, W5BL
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> ARBONET
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=Craft+hobby&w3=Ham+radio&c=3&s=60&.sig=VNS2GOcGoMZrxDamai1MAw>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2134. RE: [GPSL] Re: Expanded polystyrene enclosures and custom styrofoam enclosures

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 03:51:22 UTC
From: Roger Hammond
Topic: 2126 Message: 2134

Mike,

I recently completed my first foam core payload container to use as a backup
APRS beacon for CNNSP.
I appreciated having your article available on the EOSS site for reference.
I had to ruin a few pieces before I got the hang of the depth of the cut for
the mitered corners.
Weather providing, it will make its maiden voyage along with Paul's flight
next weekend.

Rog - KC?MWM
www.cnnsp.org

Hi Bill,

As you prolly know, I'm a proponent of custom-built payload enclosures
using foamcore board. It's cheap, commonly available, provides adequate
<<<

2135. RE: [GPSL] GPS Receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 08:25:30 UTC
From: Rick von Glahn
Topic: 2126 Message: 2135

Here's the URL to that "story".

Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Mike Manes
> Sent: Friday, March 17, 2006 8:14 PM
> To: W5BL@...
> Cc: GPSL@yahoogroups.com; Steve Osborne KC0YA
> Subject: Re: [GPSL] GPS Receivers
>

...snip

> The Garmin Etrex has also been used successfully, but it
> requires a mod to power up when external power is applied.
> The mod is on the EOSS web site. And it's a bit heavier than
> the Jupiter, but does incorporate a patch antenna.

http://www.eoss.org/onlinepubs/auto_etrex/etrex_auto_on.htm

2136. RE: [GPSL] GPS Receivers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 08:25:30 UTC
From: Rick von Glahn
Topic: 2126 Message: 2136

You might want to check:

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

Ralph Wallio, W0RPK is keeping a database of GPS receivers that pass various altitude tests. The primary barrier is 60K feet but EOSS discovered that some Jupiter boards stop reporting at 30K meters. That failed GPS receiver is mentioned. There are a fair crop of well behaved units listed.

If you are forced into using an unknown receiver and your flight attains a high max altitude I'm sure Ralph would be delighted to gather info on another receiver.

Rick, N0KKZ
EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Doug Loughmiller
Sent: Friday, March 17, 2006 4:26 PM
To: GPSL@yahoogroups.com
Cc: balloonatics@yahoogroups.com
Subject: [GPSL] GPS Receivers

Hi Everybody,

ARBONET is preparing for our first "solo" flight in about six weeks time. I wanted to pose a question to the group as to what GPS receivers the various groups are using. I understand that we need to be careful to select a receiver that is capable of reporting altitude above 60K feet. We already have a couple of options in hand but I wanted to see what some of you have successfully flown. I appreciate your guidance.

73,

Doug Loughmiller, W5BL

ARBONET

2137. EOS1 has landed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 19:15:31 UTC
From: wb8elk@aol.com
Topic: 2137 Message: 2137

Well...looks like EOS1 has landed in a swamp southeast of Lumberton, NC....the chase team has acquired the signal and are trying to figure out a way in....hopefully there are no alligators.

- Bill WB8ELK

Final landing site coordinates as relayed by the chase team:

34d 30.50m
78d 56.57m

34.50833m
78.94283m

2138. Re: [GPSL] EOS1 has landed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-18 20:04:41 UTC
From: Mark Garrett
Topic: 2137 Message: 2138
Attachments: 1 described; binary payloads are missing from this source WARC

Bill is that a swamp or just a tree lined stream to catch balloons about 70
feet up?
Mark KA9SZX

At 01:15 PM 3/18/2006, you wrote:

>Well...looks like EOS1 has landed in a swamp southeast of Lumberton,
>NC....the chase team has acquired the signal and are trying to figure out
>a way in....hopefully there are no alligators.
>
>- Bill WB8ELK
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>Final landing site coordinates as relayed by the chase team:
>
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><http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=
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>and craft supply
><http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby
&w3=Ham+radio&c=3&s=60&.sig=t6kUOeGPog29_UzZXgXIXQ>Craft
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3=Ham+radio&c=3&s=60&.sig=sXgSOsg2BLY7cRv8Fv8vyw>Ham
>radio
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>YAHOO! GROUPS LINKS
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> * Visit your group "<http://groups.yahoo.com/group/GPSL>GPSL" on the
> web.
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>
>No virus found in this incoming message.
>Checked by AVG Anti-Virus.
>Version: 7.1.385 / Virus Database: 268.2.5/284 - Release Date: 3/17/2006

2139. Re: [GPSL] Re: Expanded polystyrene enclosures and custom styrofoam enclosures

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-19 00:47:35 UTC
From: Mike Manes
Topic: 2126 Message: 2139

Hi Roger,

Glad it worked out for you, and that the learing curve was cheap!

Guess maybe I oughta emphasize making the bottom of the mitre cuts
shy of the bottom paper. In fact, it can be a lot shy, since the
exposed styrofoam core pretty much melts when the hot melt bead is
applied. As you noticed, keeping the bottom paper makes for a
strong and nicely rounded outside corner that's ready to fly.

I think I did point out that the width of the mitre cut on the
inside surface takes the thickness of the outer paper into account.
That allows the inside seam to close cleanly.

GL on the qual flight!

73 de Mike W5VSI

Roger Hammond wrote:
> Mike,
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> I recently completed my first foam core payload container to use as a backup
> APRS beacon for CNNSP.
> I appreciated having your article available on the EOSS site for reference.
> I had to ruin a few pieces before I got the hang of the depth of the cut for
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> Weather providing, it will make its maiden voyage along with Paul's flight
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> Rog - KC?MWM
> www.cnnsp.org
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> Hi Bill,
>
> As you prolly know, I'm a proponent of custom-built payload enclosures
> using foamcore board. It's cheap, commonly available, provides adequate
> <<<
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>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2140. Friend from the past

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-19 11:04:17 UTC
From: Floyd Benjie Campbell
Topic: 2140 Message: 2140

Hey Harry in Tulsa. Great pictures from the chopper during EOSS 100. Also, while visiting in florida I met an old friend of yours. Mike, WD5GLW. He even had glowing things to say about you,ha! Marcia and I met him and his wife at the Wellington FL radio club meeting while we were visiting there. I was able to make two presentations on ballooning with the EOSS group and it was a hit among the local club membership. I would hate to have to recover a balloon there Harry, there are too many snakes and alleygrabbers in the swamps down there. I don't know if there is enough breadth to Florida to allow a fast moving balloon to reach altitude before burst and descent. You would have to launch at one coast or the other to keep it within the land portion of the state, ha! Mike can be reached on the Welington IRLP node 4394. Benjie W0CBH

2141. Re: [GPSL] Bubble wrap survival at altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 14:45:22 UTC
From: PAUL VERHAGE
Topic: 2093 Message: 2141

Yes. The two samples were inside the airframe. So their lowest temperature was around 32 deg F. They were also protected from abrasion, but not the low pressure of 90,000 feet.

Paul

>>> manes@... 3/17/2006 6:48:33 pm >>>
OK, then the bubble wrap was insulated and mechanically protected by what I assume was a lunch cooler airframe? Or some such? Mike

PAUL VERHAGE wrote:
> No, I tossed mine inside the near spacecraft. Thea airframe wasn't air
> tight, so it experienced pressures around 2-3% of mean sea level. I
> have students building BalloonSats. I'll talk some of them into flying
> bubble wrap.
>
> Paul
>
>
>>>>manes@... 3/16/2006 2:47:38 pm >>>
>
> Hi Paul,
>
> I have no doubt that there are many makers of bubble wrap, and that
> the materials and quality may vary widely. It's good to know that
> ARHAB others have good luck.
>
> BTW, was your bubble wrap external to the payload?
>
> 73 de Mike W5VSI
> EOSS
>
> PAUL VERHAGE wrote:
>
>>My first flight (to 90,200 feet) carried bubble wrap, both large and
>>small bubbles. In my test, they all came back intact.
>>
>>Paul
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

2142. Balloon payments

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 16:24:18 UTC
From: Ryan Butler
Topic: 2142 Message: 2142

I have only received payments for balloons so far from:

WZ4O
CNNSP
WA0GWA

A few more have asked about money orders so I assume the money is coming that way. Some groups have yet to be heard from.

Ryan
KB0JQO

2143. Re: [GPSL] Balloon payments

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 16:59:03 UTC
From: Hank Riley
Topic: 2142 Message: 2143

>Some groups have yet to be heard from.
>
> Ryan

Ryan,

A while back I inquired about 200 gram balloons. I used private email which bounced. Then I posed the question to you on GPSL but I still haven't heard from you.

It may be that some groups are waiting to see some kind of concrete deadline for orders and/or payments. Regarding that aspect, there were one or two people that asked if it was too late to get in on the order. I don't believe you ever replied to them either.

It may seem overly formal, but I think it will work out better for everyone if a few deadlines are announced so that everyone is sure where they stand as far as being in or out of the group buy. In the long run it will be less of a hassle and less confusion for you and everyone else.

Here's a hypothetical schedule:

1. Announcement(posted to yahoogroups) of orders received so far: March 25

2. Deadline for emailed balloon orders: March 28

3. Announcement of final orders accepted: March 29

4. Announcement of payment(posted to yahoogroups) received so far: April 6

5. Deadline for receipt of payment for orders: April 9

6. Announcement of payments received and accepted: April 10

Hank

_____
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http://mail.yahoo.com

2144. Re: EOSS vacuum chamber

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 18:54:27 UTC
From: Hank
Topic: 2093 Message: 2144

Mike,

Thanks very much for the pics and detailed rundown on the chamber.
Nice scrounging all around!

Hank

2145. Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 18:57:54 UTC
From: Hank
Topic: 2065 Message: 2145

Robert,

How about an update on recovery efforts for SD9?

Could you please mention what kind of adhesive tape you used
this time?

Hank

2146. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 19:06:43 UTC
From: Rochte, Robert
Topic: 2065 Message: 2146

>
>How about an update on recovery efforts for SD9?
>

Sure... SD9 was recovered last week by George W4AVO not far from the balloon's last known position. The payload arrived here last week in decent condition - the BNC connector on the Pockettracker was the only casualty from its landing. (Haven't yet soldered it back together and tested, but I assume it will fly again!)

>Could you please mention what kind of adhesive tape you used
>this time?

It was very high tech stuff - 3/4" transparent tape from Walgreen's (store brand). :)

73,
Robert KC8UCH

2147. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 19:14:06 UTC
From: Don KA0JLF
Topic: 2065 Message: 2147

Inquiring minds want to know, or they (I) have
forgotten. What material did you use for the envelop?

I had tried making a balloon, not a tetroon, using the
drop sheet plastic (very thin, 12x400' as I recall)
sealed with 2" packing tape but was not very
successful.

We filled it with a hair dryer for a club demo, but it
leaked badly (taping not done with care). I think
there is a photo on the web somewhere, if not I'll put
one up, if anyone is interested.

Thanks,
Don

--- "Rochte, Robert" <rrochte@...> wrote:

> >
> >How about an update on recovery efforts for SD9?
> >
>
> Sure... SD9 was recovered last week by George W4AVO
> not far from the
> balloon's last known position. The payload arrived
> here last week in decent
> condition - the BNC connector on the Pockettracker
> was the only casualty
> from its landing. (Haven't yet soldered it back
> together and tested, but I
> assume it will fly again!)
>
> >Could you please mention what kind of adhesive tape
> you used
> >this time?
>
> It was very high tech stuff - 3/4" transparent tape
> from Walgreen's (store
> brand). :)
>
> 73,
> Robert KC8UCH
>
>
>
> Yahoo! Groups Links

>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
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2148. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 19:44:40 UTC
From: Rochte, Robert
Topic: 2065 Message: 2148

>Inquiring minds want to know, or they (I) have
>forgotten. What material did you use for the envelop?
>
>I had tried making a balloon, not a tetroon, using the
>drop sheet plastic (very thin, 12x400' as I recall)
>sealed with 2" packing tape but was not very
>successful.

Probably the same plastic that you used - .35 mil high-density poly. The 2" wide packing tape is serious overkill and only adds weight. Three-quarters or even 1/2" tape works fine - just be sure to apply adequate pressure (not just FORCE) to the tape. My students used spoons to smooth the tape down and apply sufficient pressure for a good seal.

-R

2149. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 19:41:03 UTC
From: Hank Riley
Topic: 2065 Message: 2149

> Sure... SD9 was recovered last week by George W4AVO not far from
> the balloon's last known position.

Robert,

That's good news. Did you have to recruit George in a manner
similar to what happened with your New Hampshire landing, or
was George following along anyway?

The place it landed in Virginia looked to be fairly hilly.
Was there any challenge, terrain-wise, to the recovery? Any
story to tell -- like was the payload snagged high in a tree?

> It was very high tech stuff - 3/4" transparent tape from
> Walgreen's (store brand). :)

Do you have an idea of how much weight you gave up compared
to using the welded seams?

Hank

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http://mail.yahoo.com

2150. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 20:07:28 UTC
From: Rochte, Robert
Topic: 2065 Message: 2150

>That's good news. Did you have to recruit George ...

I found George's APRS station using Findu - he lives about seven miles from the landing site. To the best of my knowledge, he was not aware of the flight until I told him about it.

>
>The place it landed in Virginia looked to be fairly hilly.
>Was there any challenge, terrain-wise, to the recovery? Any
>story to tell -- like was the payload snagged high in a tree?
>

No problems at all - the payload was on the ground in a dry creek bed. The balloon, however, was nowhere to be found... Not surprising, really, given the 20+ mph surface winds when it landed - the payload probably snagged in the top of a tree, suspension line broke (as it was designed to do) and the balloon was blown some distance away.

>Do you have an idea of how much weight you gave up compared
>to using the welded seams?

Figure the added weight of two rolls of cheap Scotch tape - several ounces at most. And the taped seams are FAR stronger than my heat-sealed ones, at least using this very thin (and not easily sealed) film.

My only concern was that the adhesive might soften when the envelope warmed up at altitude, but this apparently did not happen (the flight profile was typical for one of my Sky Diamond designs).

-R

2151. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 23:04:16 UTC
From: John C Nordlie
Topic: 2065 Message: 2151

Congrats Robert, that's cool. A couple questions, with
appologies if they're on a website somewhere I couldn't find.

Where did you get the plastic for the balloon? How did
you inflate it for launch? Did you use helium or just warm
air? How heavy was the payload you flew? What sort of
flight termination mechanism did you use?

Thanks in advance.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==========

On Mon, 20 Mar 2006, Rochte, Robert wrote:

>
> >That's good news. Did you have to recruit George ...
>
> I found George's APRS station using Findu - he lives about seven miles from
> the landing site. To the best of my knowledge, he was not aware of the
> flight until I told him about it.
>
> >
> >The place it landed in Virginia looked to be fairly hilly.
> >Was there any challenge, terrain-wise, to the recovery? Any
> >story to tell -- like was the payload snagged high in a tree?
> >
>
> No problems at all - the payload was on the ground in a dry creek bed. The
> balloon, however, was nowhere to be found... Not surprising, really, given
> the 20+ mph surface winds when it landed - the payload probably snagged in
> the top of a tree, suspension line broke (as it was designed to do) and the
> balloon was blown some distance away.
>
>
> >Do you have an idea of how much weight you gave up compared
> >to using the welded seams?
>
> Figure the added weight of two rolls of cheap Scotch tape - several ounces
> at most. And the taped seams are FAR stronger than my heat-sealed ones, at
> least using this very thin (and not easily sealed) film.
>
> My only concern was that the adhesive might soften when the envelope warmed

> up at altitude, but this apparently did not happen (the flight profile was
> typical for one of my Sky Diamond designs).
>
> -R
>
>
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> Yahoo! Groups Links
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2152. taped v heat sealed thin plastic

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 23:08:04 UTC
From: K. Mark Caviezel
Topic: 2152 Message: 2152

> >Do you have an idea of how much weight you gave up
> compared
> >to using the welded seams?
>
It may nearly be a wash. The taped seams could probably use the full width of the plastic. I use a 1" nominal edge allowance with my heat sealing machine (strength of my seams is as good as strength of parent material, btw), which takes a surprising amount of displacement away from the balloon.
Great to hear about the sky diamond 9 success. I'm hoping more ARHAB groups will get into plastic balloons, they enable much more interesting flights than latex. (Except perhaps for Bill Brown's mid winter latex floaters!)

- KMC

2153. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 23:27:00 UTC
From: Don KA0JLF
Topic: 2065 Message: 2153

Thanks

--- "Rochte, Robert" <rrochte@...> wrote:

> >Inquiring minds want to know, or they (I) have
> >forgotten. What material did you use for the
> envelop?
> >
> >I had tried making a balloon, not a tetroon, using
> the
> >drop sheet plastic (very thin, 12x400' as I recall)
> >sealed with 2" packing tape but was not very
> >successful.
>
> Probably the same plastic that you used - .35 mil
> high-density poly. The 2"
> wide packing tape is serious overkill and only adds
> weight. Three-quarters
> or even 1/2" tape works fine - just be sure to apply
> adequate pressure (not
> just FORCE) to the tape. My students used spoons to
> smooth the tape down
> and apply sufficient pressure for a good seal.
>
> -R
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> Yahoo! Groups Links
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> GPSL-unsubscribe@yahoogroups.com
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2154. RE: [GPSL] Balloon payments

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-20 23:40:43 UTC
From: Doug Loughmiller
Topic: 2142 Message: 2154

Ryan,

I will be putting the ARBONET check in the mail tomorrow. In fact, we want to increase our purchase to four balloons.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ryan Butler
Sent: Monday, March 20, 2006 10:24 AM
To: GPSL@yahoogroups.com; KNSP@yahoogroups.com
Subject: [GPSL] Balloon payments

I have only received payments for balloons so far from:

WZ4O
CNNSP
WA0GWA

A few more have asked about money orders so I assume the money is coming that way. Some groups have yet to be heard from.

Ryan
KB0JQO

YAHOO! GROUPS LINKS

* Visit your group "GPSL <http://groups.yahoo.com/group/GPSL> " on the web.

* To unsubscribe from this group, send an email to:
GPSL-unsubscribe@yahoogroups.com
<mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>

* Your use of Yahoo! Groups is subject to the Yahoo!
<http://docs.yahoo.com/info/terms/> Terms of Service.

2155. WB8ELK HiBall-8 recap photos and data now online

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-22 10:55:09 UTC
From: wb8elk@aol.com
Topic: 2155 Message: 2155

I'm in the process of totally revamping the website....I now have flight data and photos from the most recent HiBall-8 zero pressure flight as well as HiBall-7....I'll be shortly adding flight data and photos from all 2005 flights and working backwards from there...it'll take me awhile to get all the way back to 1987 however, but that is the goal. I'll be adding links for circuits and payload designs too.

The HiBall-8 payload was mailed back to me last week from Georgia and is in good shape, except for the hunting knife slash in the styrofoam.

http://www.wb8elk.com (http://www.wb8elk.com)

- Bill WB8ELK

2156. RE: [GPSL] Re: Solar tetroon Sky Diamond 9 aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-22 13:50:06 UTC
From: Rochte, Robert
Topic: 2065 Message: 2156

>Where did you get the plastic for the balloon? How did
>you inflate it for launch? Did you use helium or just warm
>air? How heavy was the payload you flew? What sort of
>flight termination mechanism did you use?

The plastic was exactly as I demonstrated at GPSL 2005 - .35 mil painter's plastic from Home Depot.

We usually inflate Sky Diamonds with ambient air and let them warm in the sun until they lift off (usually 5-10 minutes at most). In this case, we had gusts to 10 mph off the lake and were launching from a soccer field surrounded by tall trees, so we augmented with some helium. By the time the tetroon was at an altitude of 2500 feet, it had fully inflated with air and thus the flight was almost entirely solar.

Payload was about 2.5 pounds and consisted of a mil-surp LiSO2 battery (15v, 8.5Ah), Geko GPS with power adapter, and Pockettracker - all in a styro beer cooler wrapped in black polyethylene.

Flight termination was the result of the setting sun...

73,
Robert

2157. Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-23 17:36:35 UTC
From: kc0mic
Topic: 2157 Message: 2157

All,

We've added an online Ascent Rate Calculator to our website. You can link to it if you wish. It's based on Bill Brown's gwBasic code from 1993, rewritten in perl. (cube roots turned out to be not as hard as I thought in perl.)

http://www.nearspaceventures.com/cgi-bin/ascent.pl

Troy

2158. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-23 17:56:12 UTC
From: Hank Riley
Topic: 2157 Message: 2158

> We've added an online Ascent Rate Calculator to our website.

Troy,

I just looked at the calculator. Those ascent speeds are
just rough estimates, so I have a suggestion for a small
tweak that gives the right connotation to users of your
calculator and is also good engineering practice.

Take the ascent speed and knock off at least those two
extraneous decimal points. The presence of the digits after
the decimal point implies *way* more precision than exists.

I'd further round off to the closest 10 ft/minute to fit
even better the reality of the imprecision of the estimated
speed.

Hank
LIFTWIN author (also based on Bill Brown code with refinements)

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2159. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-23 19:07:57 UTC
From: Keith Kaiser
Topic: 2157 Message: 2159

You should add this link to the coords page of balloon track.

On 3/23/06, kc0mic <kc0mic@...> wrote:
> All,
>
> We've added an online Ascent Rate Calculator to our website. You can
> link to it if you wish. It's based on Bill Brown's gwBasic code from
> 1993, rewritten in perl. (cube roots turned out to be not as hard as
> I thought in perl.)
>
> http://www.nearspaceventures.com/cgi-bin/ascent.pl
>
> Troy
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> Yahoo! Groups Links
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YIS/YIV
Keith D Kaiser -- Venturing Roundtable Commissioner
kaiserklan.com
kaiserklan.com/roundtable
kaiserklan.com/wa0tjt
keith.kaiser@...

2160. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-23 20:18:47 UTC
From: Troy Campbell
Topic: 2157 Message: 2160

I've rounded the two decimal places. Hopefully, using 'Estimated' in the label for the result will convey the nature of the number.

See what you think.

Troy, KC0MIC

Hank Riley <n1ltv@...> wrote: > We've added an online Ascent Rate Calculator to our website.

Troy,

I just looked at the calculator. Those ascent speeds are
just rough estimates, so I have a suggestion for a small
tweak that gives the right connotation to users of your
calculator and is also good engineering practice.

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even better the reality of the imprecision of the estimated
speed.

Hank
LIFTWIN author (also based on Bill Brown code with refinements)

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2161. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 06:50:19 UTC
From: Mike Manes
Topic: 2157 Message: 2161

Hi Hank,

I find your LiftWin 041 on my desktop to be a lot handier than
any online calculator. And it yields plenty good predictions
for ARHAB purposes. Thanks, Hank!

And you're right about the complexity of calculating ascent rate.
I worked with a very bright aerospace engineer, working down to
the bare metal to see what's behind the oft-observed near-constant
ascent rate for latex balloons. We were deep in to Reynolds and
Grashof numbers and finally decided that the only way that this
phenomenon can be explained is to allow the shape of the balloon
to deviate from a sphere over the ascent course. This effect is
far more pronounced with plastic balloons, BTW, which look more like
mushrooms or inverted teardrops during early ascent.

73 de Mike W5VSI
EOSS

Hank Riley wrote:
>>We've added an online Ascent Rate Calculator to our website.
>
>
> Troy,
>
> I just looked at the calculator. Those ascent speeds are
> just rough estimates, so I have a suggestion for a small
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> Hank
> LIFTWIN author (also based on Bill Brown code with refinements)
>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2162. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 15:14:47 UTC
From: Troy Campbell
Topic: 2157 Message: 2162

Mike,

Hank did a great job on Liftwin but I'm a Linux kinda guy so LiftWin is a non starter for me. If I absolutely _have_ to use winbdoze applications, I run them under a program called 'Crossover Office' Most windows programs run fine under it but Liftwin won't. So I rewrote Bill's program in perl. I have been using the command line version of that program on my desktop for a while. I'm missing out on a lot of other functionality of Liftwin, but what I'm using is all I really need.

Since we've been doing more outreach and training in the ARHAB arena, we've started putting HTML front-ends on some of the software we use so that the application can be ubiquitous. Anyone can get at it without having to download and install anything and it doesn't care about linux vs windows vs mac-X.

One of these days, if anybody expresses an interest, I'll put the source code in the download section of the web site

In the meantime, the online version can be used to let everyone in on the planning..... if they want to. The really great thing is, if something else works better for you, use that. If you like the on-line version, use that. Whatever works in your situation. We just thought it would be nice to contribute to the community.

In the field on launch morning and during recovery, I use Xastir, gpsd, and several perl programs, including the ascent rate calculator. (I'm anxiously waiting for DSL via wireless for $9.95 per month, available anywhere we chase balloons.)

Hank:
Thanks for the suggestions for tweaking the presentation in the user interface. I implemented those yesterday. I also fixed an error condition that occured if you manage to enter more payload weight than nozzle lift.

73 de Troy, KC0MIC
Nearspace Ventures
CAPNSPACE

Mike Manes <manes@...> wrote: Hi Hank,

I find your LiftWin 041 on my desktop to be a lot handier than
any online calculator. And it yields plenty good predictions
for ARHAB purposes. Thanks, Hank!

And you're right about the complexity of calculating ascent rate.
I worked with a very bright aerospace engineer, working down to
the bare metal to see what's behind the oft-observed near-constant
ascent rate for latex balloons. We were deep in to Reynolds and
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EOSS

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> Troy,
>
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> Hank
> LIFTWIN author (also based on Bill Brown code with refinements)
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> Do You Yahoo!?
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

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2163. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 17:47:56 UTC
From: Steve Brockway
Topic: 2157 Message: 2163

--- Troy Campbell <kc0mic@...> wrote:
>
> including the ascent rate calculator. (I'm anxiously
> waiting for DSL via wireless for $9.95 per month,
> available anywhere we chase balloons.)
>

Wireless DSL for $9.95/month? What provider? What
coverage area?

Steve

2164. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 18:00:43 UTC
From: Troy Campbell
Topic: 2157 Message: 2164

That was tongue-in-cheek. Maybe SW Bell will take the hint.....

TMC

Steve Brockway <ssbrockw@...> wrote: --- Troy Campbell <kc0mic@...> wrote:
>
> including the ascent rate calculator. (I'm anxiously
> waiting for DSL via wireless for $9.95 per month,
> available anywhere we chase balloons.)
>

Wireless DSL for $9.95/month? What provider? What
coverage area?

Steve

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Voice.

2165. Re: Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 20:19:25 UTC
From: Hank
Topic: 2157 Message: 2165

> I've rounded the two decimal places.

> See what you think.

Much better.

2166. Re: Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 20:53:03 UTC
From: Hank
Topic: 2157 Message: 2166

>I'm a Linux kinda guy so LiftWin is a non starter for me. If I
>absolutely _have_ to use winbdoze applications, I run them under a
>program called 'Crossover Office' Most windows programs run fine
>under it but Liftwin won't.

Troy,

This is the first time I've heard of this way of trying to run
LW. Just read a little of the Crossover Office website,
and while in actuality many programs may run well under it,
it seems like there sometimes has to be some kind of programming
work done (by Crossover) for a target software, case by case,
basis:

Q. Are there any Windows applications that you can't get
working under CrossOver?

A. Our experience suggests that the answer to this is most
likely "probably not". For all practical purposes, we think
we can make anything run under CrossOver. After all, if we
can make MS Office run, odds are pretty good that we can get
your application running, too. The only question is how much
work is entailed.

LW does not do anything fancy or unorthodox, but it was
compiled under a now old WIN 3.1 compiler, so that may be part
of the answer.

Just out of curiosity does Balloon Track run for you under
CrossOver?

I'd like to ask you a few more quesions which I'll do in email.

> Thanks for the suggestions for tweaking the presentation in
> the user interface.

You're welcome.

Hank

2167. On-line ballooning tools

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 21:12:29 UTC
From: mconner1@gmail.com
Topic: 2167 Message: 2167

Another concept to consider - many of us work on systems with tight restrictions on installing new software. Having on-line tools like the ascent rate calculator and balloon track prediction is a great help in this situation. Now I don't have to shuffle data files and fire up my old POS standalone laptop to run a track prediction at work.

Unfortunately it can be almost as difficult to provide on-line tools supported by a wide range of browers as it is to provide installable tools for the wide range of operating systems.

My hat's off to Troy and his gang for bringing these tools to an on-line form.

73 de Mark N9XTN

2168. Re: [GPSL] Re: Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 21:26:58 UTC
From: Troy Campbell
Topic: 2157 Message: 2168

Hank,

There's a pretty big list of 'testing working applications' on their website and the Crossover software manager recognizes all of it, knows all the pecularities and installs/runs it without a peep. Even simulates a reboot when when its done. The latest version let's you put apps in 'bottles' and each bottle can emulate win98, win2000 or win2003. All the MS-Office products run better on Crossover (for me) than Windows. But I think that is mostly because the underlying O/S is more stable (shameless Linux plug). Plus, when something DOES hang, it doesn't take down the whole computer, just the Crossover instance.

For what it does, Crossover is pretty slick. However it won't do everything. What it does do, it does amazingly well.

I did get Balloon Track for Windows to run on an earlier version of Crossover but haven't had any luck with it in the latest release. It works in the win98 bottle. Since I wrote a PerlTrak, all my efforts have been spent on refining it and interfacing it to Xastir .

I agree about the compiler. I'm pretty sure that the issue with LW is the version of VBRUN. I say that because my software guys have to download something from MS to make LW run on XP. (Wow! look at all those letters!)

Anyway, this discussion is barely on-topic so you can email me directly.

Cheers,

Troy

Hank <n1ltv@...> wrote: >I'm a Linux kinda guy so LiftWin is a non starter for me. If I >absolutely _have_ to use winbdoze applications, I run them under a >program called 'Crossover Office' Most windows programs run fine >under it but Liftwin won't.

Troy,

This is the first time I've heard of this way of trying to run
LW. Just read a little of the Crossover Office website,
and while in actuality many programs may run well under it,
it seems like there sometimes has to be some kind of programming
work done (by Crossover) for a target software, case by case,
basis:

Q. Are there any Windows applications that you can't get
working under CrossOver?

A. Our experience suggests that the answer to this is most
likely "probably not". For all practical purposes, we think
we can make anything run under CrossOver. After all, if we
can make MS Office run, odds are pretty good that we can get
your application running, too. The only question is how much
work is entailed.

LW does not do anything fancy or unorthodox, but it was
compiled under a now old WIN 3.1 compiler, so that may be part
of the answer.

Just out of curiosity does Balloon Track run for you under
CrossOver?

I'd like to ask you a few more quesions which I'll do in email.

> Thanks for the suggestions for tweaking the presentation in
> the user interface.

You're welcome.

Hank

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2169. Maybe a little OT: running windows balloon software under Linux

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-24 22:23:22 UTC
From: Hank
Topic: 2157 Message: 2169

> There's a pretty big list of 'testing working applications' on
> their website and the Crossover software manager recognizes all of
> it, knows all the pecularities and installs/runs it without a peep.

Troy,

The point I'm trying to explore and bring out is that it may
not be totally fair or accurate to simply say that this Crossover
software runs most windows software but not software A or B
(thus allowing for the inference to be made that A or B was an
unusual exception).

I saw the list, and it naturally comprises the more popular
stuff that is **commercial**. What I'd like to know with some
higher degree of certainty is how much random **shareware**
software runs under Crossover where there has been no special
effort made by any party to take particular steps to make it
run. There are many sections of the Crossover site that get
into issues about how to get a certain type of software X to
work under Crossover (which presently doesn't), including
the idea of potential users raising money to enable Crossfire
to do the programming work on Crossover to make software X work!

I'm not speaking as a Windows evangelist, because I'm not.

So, to summarize, the question for me is not how many commercial
programs are listed as working, but how many windows programs
in the universe work under Crossover naturally without any
special effort and attention by Crossover programmers.

> Anyway, this discussion is barely on-topic so you can email
> me directly.

It may be a judgement call at this point about OT. There might be
someone on list to whom this discussion might be valuable in
some oblique way.

What I'll ask in email is very specific to your experience.

Hank

2170. Re: [GPSL] Maybe a little OT: running windows balloon software under Linux

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-25 01:34:45 UTC
From: Troy Campbell
Topic: 2157 Message: 2170

Hank,

>> There's a pretty big list of 'testing working applications' on
>> their website and the Crossover software manager recognizes all of
>> it, knows all the pecularities and installs/runs it without a peep.

> The point I'm trying to explore and bring out is that it may
> not be totally fair or accurate to simply say that this Crossover
> software runs most windows software but not software A or B
> (thus allowing for the inference to be made that A or B was an
> unusual exception).

I wasn't trying to make any inference one way or another about any software. Just like I pointed out earlier, I just plain don't care what people use. I was only reporting that the list of software that Crossover reports to run, DOES run and very well. So I'm pretty sure that the paragraph is accurate. Anyone inferring anything other than me saying "the programs listed on Crossover's web site as being tested, do work" simply isn't reading the the paragraph. Fair doesn't enter into it. I'm not making judgements, just reporting experiences.

Some 'unsupported' [unsupported by Crossover, that is] does run. Some doesn't. Again, value judgements like 'fair' doesn't enter into it.

I only state that "I use Linux and if I have to run Windows software I try to run it under Crossover. But I can't make everything run under Crossover. LW was one of those items that I can't get to run." End of statement. No judgement, no 'fair or unfair'. You could probably make the judgement that I am too incompetent to get it to run if you want. Heck, it might even be true. [I've been told that I'm trainable though.]

If it's useful to anyone, my experience with unsupported software (unsupported by Crossover, that is) includes:

The configuration utility for the TINY TRAKER III. It is unsupported, doesn't have an installer, but runs fine under Crossover. [I really didn't expect it to work either because of the serial port, but it just worked.]

Balloon Track for Windows has worked on older versions of Crossover I have tried, but some things didn't display (the real time data window and some of the graphs). Not Balloon Track's fault, and I didn't expect it to work at all.

MMSSTV is a Slow Scan Television transmit/recieve program that I didn't expect to work. Heck, it uses the sound card, graphics card and the serial ports. It couldn't possibly work could it? But it worked fine when I tested it. (However, I use QSSTV, an SSTV program for Linux)

There are several 'little' programs that I fully expected to work, but don't. A couple of label making programs, some programs that turned out to be 'compiled' batch jobs for MS-Access, etc.

I was expecting LW to work because balloon track worked. I'm still betting that if LW were compiled on a newer O/S (at least win98 or newer) it would probably work. LW just doesn't do anything exotic by computer standards. BUT, I don't KNOW that, I'm just guessing.

As a general observation and is ONLY BASED ON MY EXPERIENCE, NO WARRANTY, EXPRESSED OR IMPLIED, if the program was written in C or C++ or C#, it appears that it usually works. If it was written in VB, it may work, but ususally I can't get it run without help. And sometime, I can't get it to work at all. A qualifier to that is that programs that have installers usually seem to work no matter what it was compiled with. AGAIN THIS HAS BEEN MY EXPERIENCE, AND I'M ONLY REPORTING IT. THIS IS NOT AN OBJECTIVE EVAULTION, FORMAL STUDY OR REPORT. JUST A STATEMENT OF "THAT'S WHAT IT LOOKS LIKE TO ME".

Crossover and Wine, to me both fall under the header of the tap dancing elephant. The amazing thing is that the elephant DANCES. When I find out that the elephant can't do the polka, I don't get too upset about it. I just won't book him at any parties that require polka dancing elephants.

> I'm not speaking as a Windows evangelist, because I'm not.

It may sound like I'm a linux evangelist, but it's more 'I don't like Bill Gates'. To be honest, I've been programming or administrating Unix and now Linux systems since 1976 and DOS systems since 1981 and Windows systems since 1994. So I've had more experience with *nix system.s My dad once quipped, "If the only tool you have is a hammer, every problem looks like a nail." My personal toolbox has a big 'L' on it. Other, equally or better skilled people's toolboxes have a big 'W' on it.

If a piece of Windows software is so important to me that I can't live without it, and it won't run under Crossover or Wine, I'd run a virtual machine under Linux with Windows on it or dual boot. Or write something that will work in my environment.

If it's REALLY REALLY important that I run a specific Windows application, I'll buy a Windows box and run it. Which is what I recommend to everybody. I the application you really want or need runs on Windows, buy Windows. The author won't support it otherwise, and with good reason.***

This is getting way to long winded. I guess I'll shut up now.

Troy

*** Web-Based Ajaxian type applications will be breaking this model soon, in my opinion.

Hank <n1ltv@...> wrote:

Troy,

The point I'm trying to explore and bring out is that it may
not be totally fair or accurate to simply say that this Crossover
software runs most windows software but not software A or B
(thus allowing for the inference to be made that A or B was an
unusual exception).

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special effort and attention by Crossover programmers.

> Anyway, this discussion is barely on-topic so you can email
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It may be a judgement call at this point about OT. There might be
someone on list to whom this discussion might be valuable in
some oblique way.

What I'll ask in email is very specific to your experience.

Hank

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2171. Online Balloon Programs.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-25 01:51:11 UTC
From: Joe
Topic: 2157 Message: 2171

This is awesome

http://nearspaceventures.com/w3Baltrak/readyget.pl

Ok, wondering if we can add one more thing to it?

With all these "Floaters" being put up recently,, can we add a "Float"
altitude and duration part to this?

Joe WB9SBD

>

2172. Re: [GPSL] Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-25 01:33:16 UTC
From: Mike Manes
Topic: 2157 Message: 2172

Hi Troy,

Sypatico re Windoze ... I'd hold my breath every time it boot, if I still had that much lung capacity ... USoft's finest product was MSDOS 3.4 ... been a bug-ridden slippery slope since. However ...

My consulting business as well as a whole bunch of non-business comms rely on uSoft apps, e.g. Office, etc. And I've seen how "compatible" the Office clone products run on the XYL's OS-X machine. So I just grit teeth and avoid OS upgrades (beyond the so-called "Service Pack" bug fixes). In my defense, tho, I use Mozilla for i'net apps.

I do have a HD with Red Hat loaded for my laptop, and have toyed some with it, with a LOT of help from #3 son. By 'n by, that Round Tuit will show up and I'll take the leap. But in the meantime, I guess I'll still be counted amongst the lemmings.

Not sure you noticed, but Liftwin requires the uSoft Visual Basic runtime package, vbrun, to be installed. Maybe that's been ported over to Linux by now?

Note also that Hank also did a lot of tweaking with Bill Brown's algorithms to force 'em to match the balloon mfrs' empirical ascent curves. And those of us who've flow the same make & model balloons with nearly equal payloads have learned that ascent rate and even burst altitude can only be estimated to +/- 10% at best. When one considers how latex balloons are made, the observed unit-to-unit variations shouldn't come as a surprise.

And no one has discovered why low ascent rate latex balloons have a far greater tendency to stall than do fast ones, although a negative inflection is ascent rate is often observed even with fat fills. I suspect it may have something to do with a rather broad spread in Reynolds Number from the deck to 10 mbar; but I'm dead wrong a lot, too.

There's nothing wrong with getting the ascent rate code out where more folks can get to it. It would be nice, tho, if more of the really effective apps like WinBallTrak could be ported over to Linux etc.

Oh, and when you find that cheap DSL service, don't keep it under yer hat! I still pay twice that for 56K dialup!

Keep up the good work, Troy.

73 de Mike W5VSI
Prez EOSS

Oh BTW, you work with one of the CAP squadrons, don't you? (Or does
the CAP in CAPNSPACE denote sumpin else?) If so, EOSS has been
contacted from time to time by Denver-area CAP squadrons interested in
flying payloads, but so far, hasn't got beyond the talking stage).

Troy Campbell wrote:
> Mike,
>
> Hank did a great job on Liftwin but I'm a Linux kinda guy so LiftWin is
> a non starter for me. If I absolutely _have_ to use winbdoze
> applications, I run them under a program called 'Crossover Office' Most
> windows programs run fine under it but Liftwin won't. So I rewrote
> Bill's program in perl. I have been using the command line version of
> that program on my desktop for a while. I'm missing out on a lot of
> other functionality of Liftwin, but what I'm using is all I really need.
>
> Since we've been doing more outreach and training in the ARHAB arena,
> we've started putting HTML front-ends on some of the software we use so
> that the application can be ubiquitous. Anyone can get at it without
> having to download and install anything and it doesn't care about
> linux vs windows vs mac-X.
>
> One of these days, if anybody expresses an interest, I'll put the source
> code in the download section of the web site
>
> In the meantime, the online version can be used to let everyone in on the
> planning..... if they want to. The really great thing is, if something
> else works better for you, use that. If you like the on-line version,
> use that. Whatever works in your situation. We just thought it would
> be nice to contribute to the community.
>
> In the field on launch morning and during recovery, I use Xastir, gpsd,
> and several perl programs, including the ascent rate calculator. (I'm
> anxiously waiting for DSL via wireless for $9.95 per month, available
> anywhere we chase balloons.)
>
> Hank:
> Thanks for the suggestions for tweaking the presentation in the user
> interface. I implemented those yesterday. I also fixed an error
> condition that occured if you manage to enter more payload weight than
> nozzle lift.
>
>
> 73 de Troy, KC0MIC
> Nearspace Ventures
> CAPNSPACE
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Hank,
>

> I find your LiftWin 041 on my desktop to be a lot handier than
> any online calculator. And it yields plenty good predictions
> for ARHAB purposes. Thanks, Hank!
>
> And you're right about the complexity of calculating ascent rate.
> I worked with a very bright aerospace engineer, working down to
> the bare metal to see what's behind the oft-observed near-constant
> ascent rate for latex balloons. We were deep in to Reynolds and
> Grashof numbers and finally decided that the only way that this
> phenomenon can be explained is to allow the shape of the balloon
> to deviate from a sphere over the ascent course. This effect is
> far more pronounced with plastic balloons, BTW, which look more like
> mushrooms or inverted teardrops during early ascent.
>
> 73 de Mike W5VSI
> EOSS
>
> Hank Riley wrote:
> >>We've added an online Ascent Rate Calculator to our website.
> > >
> > >
> > > Troy,
> > >
> > > I just looked at the calculator. Those ascent speeds are
> > > just rough estimates, so I have a suggestion for a small
> > > tweak that gives the right connotation to users of your
> > > calculator and is also good engineering practice.
> > >
> > > Take the ascent speed and knock off at least those two
> > > extraneous decimal points. The presence of the digits after
> > > the decimal point implies *way* more precision than exists.
> > >
> > > I'd further round off to the closest 10 ft/minute to fit
> > > even better the reality of the imprecision of the estimated
> > > speed.
> > >
> > > Hank
> > > LIFTWIN author (also based on Bill Brown code with refinements)
> > >
> > > _____
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> Mike Manes manes@... Tel: 303-979-4899
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> Einstein
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> the web.
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> * To unsubscribe from this group, send an email to:
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> Service <http://docs.yahoo.com/info/terms/>.
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>

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2173. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-25 03:58:41 UTC
From: Hank Riley
Topic: 2157 Message: 2173

> We were deep in to Reynolds and
> Grashof numbers and finally decided that the only way that this
> phenomenon can be explained is to allow the shape of the balloon
> to deviate from a sphere over the ascent course.

Mike,

I guess that it just has to remain a mystery with a plausible
but not rock solid explanation if you guys didn't solve it.

Also my derivation that had the balloon either speeding up
or slowing down with increasing height (guessing it was the
former) was okay as far as it went, making the usual
assumptions. It's just that the basic model is missing
something, like the variable shape factor you mention.

It still amazes me that the ascent speed seems to adhere as
well as it does to a constant. There are a good number of
anomalous amateur flight logs, but I believe the vast majority
are really pretty steady from liftoff until burst.

Hank

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http://mail.yahoo.com

2174. Re: [GPSL] Re: Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-25 03:37:32 UTC
From: Mike Manes
Topic: 2157 Message: 2174

Hank,
LiftWin requires the Visual Basic runtime package, doesn't it?
73 de Mike W5VSI

Hank wrote:
>>I'm a Linux kinda guy so LiftWin is a non starter for me. If I
>>absolutely _have_ to use winbdoze applications, I run them under a
>>program called 'Crossover Office' Most windows programs run fine
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> Troy,
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>>Thanks for the suggestions for tweaking the presentation in

>>the user interface.
>
>
> You're welcome.
>
> Hank
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Mike Manes manes@... Tel: 303-979-4899
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2175. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-25 04:57:24 UTC
From: Mike Manes
Topic: 2157 Message: 2175

Hi Hank,

Well, like so much other technology that's been once well-understood
and slowly forgotten (like the MIT Series), I'd be not surprised if
somewhere lurking out there is a paper which precisely describes
latex balloon ascent behavior.

Sounds like a great topic for an aero engineer's master's thesis!

Any takers?

73 de Mike W5VSI

Hank Riley wrote:
>>We were deep in to Reynolds and
>>Grashof numbers and finally decided that the only way that this
>>phenomenon can be explained is to allow the shape of the balloon
>>to deviate from a sphere over the ascent course.
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> Mike,
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> I guess that it just has to remain a mystery with a plausible
> but not rock solid explanation if you guys didn't solve it.
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> Also my derivation that had the balloon either speeding up
> or slowing down with increasing height (guessing it was the
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> Hank
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"Things should be made as simple as possible, but not more so." A. Einstein

2176. RE: [GPSL] On-Line Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-26 18:07:42 UTC
From: Roger Hammond
Topic: 2112 Message: 2176

Troy and the gang,

Excellent job on the online Balloon Track utility!
I've just started using it a little for our upcoming flight this weekend.
It will make those pedictions from work, much easier and quicker.

Thanks to everyone that had a hand in this.

Rog KC?MWM
www.cnnsp.org

2177. Re: Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-26 18:43:22 UTC
From: Hank
Topic: 2157 Message: 2177

> LiftWin requires the Visual Basic runtime package, doesn't it?

Mike,

As a far as I know, it does.

vbrun300.dll

Using WIN98, as soon as the above file was removed, LIFTWIN
wouldn't work and reported that it couldn't find the file,
which it named.

I'm going to check what happens on WIN2000.

I guess it's because at least these early VBasics compiled
to an intermediate code, not machine language.

Hank

2178. Re: [GPSL] Re: Ascent Rate Calculator

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-27 00:43:10 UTC
From: Mike Manes
Topic: 2157 Message: 2178

Hi Hank,

LiftWin 041 runs fine on my Win2K machine, and I suspect that
vbrun300.dll got installed with the OS, since I didn't have to
xfer it when I ported LiftWin over from W98. It's still the
5/93 version and is located in C:\WINNT\system\.

73 de Mike W5VSI

Hank wrote:
>>LiftWin requires the Visual Basic runtime package, doesn't it?
>
>
> Mike,
>
> As a far as I know, it does.
>
> vbrun300.dll
>
> Using WIN98, as soon as the above file was removed, LIFTWIN
> wouldn't work and reported that it couldn't find the file,
> which it named.
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> I'm going to check what happens on WIN2000.
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> I guess it's because at least these early VBasics compiled
> to an intermediate code, not machine language.
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> Hank
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2179. ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-27 16:17:02 UTC
From: Gene Harlan
Topic: 1452 Message: 2179

Just a final notice / request for articles.

It is about time to start putting together the Spring issue of Amateur Television Quarterly. I will need articles by April 1st. Please email me and let me know what will be on the way.

The Spring issue will have information about ATV get togethers and meetings at the Dayton Hamvention. We will be in booth 207 with lots of ATV stuff to show and tell and sell! Hope to see you there.

Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

2180. Video cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-27 16:19:01 UTC
From: Gene Harlan
Topic: 2180 Message: 2180

A quick note as a reminder that this is the final sale week for video cameras from:

http://www.hampubs.com

Choose ATV Toys to see the selection.

Thanks.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

2181. Re: [GPSL] ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-28 02:25:51 UTC
From: Zack Clobes
Topic: 1452 Message: 2181

I will put a short blurb together about GPSL 2006 in Hutchinson.
Probably just a paragraph or two.

The hotel should be sending me a contract to sign in the next day or so,
and then things will be finalized.

Zack

Gene Harlan wrote:
> Just a final notice / request for articles.
>
> It is about time to start putting together the Spring issue of Amateur
> Television Quarterly. I will need articles by April 1st. Please email me and
> let me know what will be on the way.
>
> The Spring issue will have information about ATV get togethers and meetings
> at the Dayton Hamvention. We will be in booth 207 with lots of ATV stuff to
> show and tell and sell! Hope to see you there.
>
> Thanks.
>
> Gene Harlan - WB9MMM
> NEW - Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
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> 815-398-2683 - voice
> 815-398-2688 - fax
> http://www.hampubs.com
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> Yahoo! Groups Links
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2182. Who is the keeper of www.superlaunch.org?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-28 02:27:21 UTC
From: Zack Clobes
Topic: 2182 Message: 2182

[Body unavailable in the source archive]

2183. Re: [GPSL] Who is the keeper of www.superlaunch.org?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-28 02:38:45 UTC
From: wb8elk@aol.com
Topic: 2182 Message: 2183

Hi Zack....I'm the keeper of Superlaunch....let me know where you want me to point it.

- Bill WB8ELK

2184. FT-1500M microphone

Yahoo group: GPSL (2002 — 2008)
Date: 2006-03-29 20:01:28 UTC
From: mconner1@gmail.com
Topic: 2184 Message: 2184

I have a Yaesu FT-1500M rig that I usually use for an APRS rig, but would like to be able to use it for voice when necessary. Unfortunately, I have misplaced the microphone for it some time ago.

Does anyone on the list happen to have a microphone for it that they're willing to part with? Maybe we can work out a trade of some sort. E-mail me offlist if interested.

73 de Mark N9XTN

2185. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-01 20:30:11 UTC
From: PAUL VERHAGE
Topic: 2157 Message: 2185

I tried looking at the drag equation and seeing if I could show the balloon's speed should be constant. But I kept coming up with a speed that was not constant. I'll see if I can find my notes and show my work.

Paul

>>> manes@... 3/24/2006 9:57:24 pm >>>
Hi Hank,

Well, like so much other technology that's been once well-understood and slowly forgotten (like the MIT Series), I'd be not surprised if somewhere lurking out there is a paper which precisely describes latex balloon ascent behavior.

Sounds like a great topic for an aero engineer's master's thesis!

Any takers?

73 de Mike W5VSI

Hank Riley wrote:
>>We were deep in to Reynolds and
>>Grashof numbers and finally decided that the only way that this
>>phenomenon can be explained is to allow the shape of the balloon
>>to deviate from a sphere over the ascent course.
>
>
> Mike,
>
> I guess that it just has to remain a mystery with a plausible
> but not rock solid explanation if you guys didn't solve it.
>
> Also my derivation that had the balloon either speeding up
> or slowing down with increasing height (guessing it was the
> former) was okay as far as it went, making the usual
> assumptions. It's just that the basic model is missing
> something, like the variable shape factor you mention.
>
> It still amazes me that the ascent speed seems to adhere as
> well as it does to a constant. There are a good number of
> anomalous amateur flight logs, but I believe the vast majority
> are really pretty steady from liftoff until burst.
>
> Hank
>
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> _____
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

Yahoo! Groups Links

2186. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-01 21:38:00 UTC
From: Ralph Wallio, W0RPK
Topic: 2157 Message: 2186

We know ascent rate is -not- constant. See
http://showcase.netins.net/web/wallio/ASCENT.html for my
chaotic discussion circa 2002. It appears rising and sinking air masses rule.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2187. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-01 23:30:23 UTC
From: Mike Manes
Topic: 2157 Message: 2187

Hi Paul,

Yeah, just doing the W = D = Cd x Ae x v^2 x d doesn't result in constant ascent rate, even letting Ae rise as 2/3 root of d. That's what prompted us to dig deeper into the fluid dynamics - and STILL couldn't get a constant w/o tweaking Cd as a function of altitude.

Master's thesis, anyone?

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> I tried looking at the drag equation and seeing if I could show the
> balloon's speed should be constant. But I kept coming up with a speed
> that was not constant. I'll see if I can find my notes and show my
> work.
>
> Paul
>
>
>>>>manes@... 3/24/2006 9:57:24 pm >>>
>
> Hi Hank,
>
> Well, like so much other technology that's been once well-understood
> and slowly forgotten (like the MIT Series), I'd be not surprised if
> somewhere lurking out there is a paper which precisely describes
> latex balloon ascent behavior.
>
> Sounds like a great topic for an aero engineer's master's thesis!
>
> Any takers?
>
> 73 de Mike W5VSI
>
> Hank Riley wrote:
>
>>>We were deep in to Reynolds and
>>>Grashof numbers and finally decided that the only way that this
>>>phenomenon can be explained is to allow the shape of the balloon
>>>to deviate from a sphere over the ascent course.
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>>I guess that it just has to remain a mystery with a plausible

>>but not rock solid explanation if you guys didn't solve it.
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>>Also my derivation that had the balloon either speeding up
>>or slowing down with increasing height (guessing it was the
>>former) was okay as far as it went, making the usual
>>assumptions. It's just that the basic model is missing
>>something, like the variable shape factor you mention.
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>>It still amazes me that the ascent speed seems to adhere as
>>well as it does to a constant. There are a good number of
>>anomalous amateur flight logs, but I believe the vast majority
>>are really pretty steady from liftoff until burst.
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Mike Manes manes@... Tel: 303-979-4899
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2188. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-01 23:36:09 UTC
From: Mike Manes
Topic: 2157 Message: 2188

Hi Ralph,

Well, yes, there are vertical components to air currents. This
was pointed out to us with abundant clarity by Dr. Cec Girz of NOAA:

"Who sez the wind only blows horizontally?"

But those vertical currents or votexes are rather limited in size
and don't affect the flight over more than about 10,000 ft of ascent.
And they appear strongest near the tropopause and on the edges of
the jet stream.

73 de Mike W5VSI, EOSS

Ralph Wallio, W0RPK wrote:
> We know ascent rate is -not- constant. See
http://showcase.netins.net/web/wallio/ASCENT.html for my
> chaotic discussion circa 2002. It appears rising and sinking air masses rule.
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Mike Manes manes@... Tel: 303-979-4899
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2189. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 00:32:51 UTC
From: Ralph Wallio, W0RPK
Topic: 2157 Message: 2189

Ok, then what causes the extreme variability in ascent rate during most flights and months(?) Note
that in the June01 graphic that there were three simultaneous flights. Two flights have similar
ascent rate variations. The third is very different. Perhaps -average- ascent rate is a hint. The
two similar flights averaged ~1,000ft/min. The third averaged ~500ft/min. --w0rpk

2190. UX-7 Recovery Synopsis

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 05:32:00 UTC
From: David J. Hoffman
Topic: 2190 Message: 2190

David J. Hoffman - KE4FGW
message sent from my Palm

"Travis J. Maclay" <tjmaclay@...> wrote:

_____
> Message
> Well, I'm sure many will want the details on what took place. I am exporting a video right now that will explain most everything that I could type, but here's asynopsis.
>
> Clint Serman, a friend of mine who's a soon-to-be ham, and I left Knoxville about 5:45 this morning for Erwin, TN. Clint was there on the day of the launch and he's been interested ever since then in going back and recovering the payload. Timing has just not worked out until today. I must admit that he was rather excited on the days that others attempted the recovery and were unsuccessful, simply because he really wanted to go get it.
>
> He and I researched many, many methods in getting it down. We talked to friends who were engineers who all came up with great solutions. Some were impractical, while others seemed doable. The method we ended up choosing came to me last Friday afternoon. While browsing www.howstuffworks.com, (a great site I might add), I happened upon "How a Spud Gun Works". It had been years since I saw one and fired one so I decided to read. After reading the article, the though occurred that this just might be the solution. Less violent than a gun but has enough power to knock it down in a single shot. We went to Lowe's that night to buy the materials.
>
> Needless to say, I was amazed at the power of such a device with a medium sized potato, 5 seconds of hairspray and a spark. We practiced for hours at an undisclosed location :-) to perfect our aiming amp; firing skills. This past Thursday, we were satisfied enough with the results that we felt good about taking it up the mountain.
>
> We hiked in from the Hilemon property. I had all of the coordinates marked in the GPS for the directions we needed to go to pass around the west side of Devil's Looking Glass and then up to the ridge line. Well, between low GPS signal in the trees and a rather cheap compass as a backup, we ended up heading due north and found ourselves really, really struggling to make the climb. Hindsight being 20/20, this was simply because we were scaling the side of Devil's Looking Glass and not going around it. Well, it was too late to turn back now and backtrack, so we kept the course. Quite simply, it was grueling. We climbed to the very top only to realize that we had to climb all of the way back down on the other side in order to get over to another ridge. The journey down the mountain, although a bit quicker, was no less treacherous. It's safe to say that no human has been in some of those places in years at best. We heard amp; saw our share of snakes on that journe!
y!
>
> Finally, at 11:35, just three hours after locking the car doors amp; heading up the mountain, we arrived at the payload. We unpacked our bags, setup our gear amp; started the

camera rolling. We had a couple of test fires with the potato gun just in case something wasn't working properly. Shot #1 and #2 were unsuccessful in hitting the payload. Shot #3 struck the bottom right corner of the payload but only put a small crack in the box. We decided to give it just a bit more hairspray, naturally :-) With the camera rolling and on a tight shot of the container, we fired shot #4 and it was a winner. The potato entered the bottom just slightly right of the middle and proceeded up and out the top. The force of the potato passing through took the container up with it, which we believe is what caused the plastic handles to break.
>
> The styrofoam container fell the ground and rolled about 35 feet down the side of the hill where it came to rest against a tree. I ran up, grabbed the camera that was still rolling and we went down to inspect the contents. Fortunately, nothing fell out of the box on the roll down the hill and even better than that, everything was intact and nothing was broken. We inspected the contents, packed them up as quickly as possible and headed back to our bags to start packing them.
>
> We decided we would take the path of the river back to the Hilemon property. Makes me wish we had done that to start with. We left the payload area at 1:15 and were at the car at 2:10. After saying good bye to the Hilemon's we were on the road at 2:30. We came back to the shack to deliver the contents, took a few pictures, and then headed home.
>
> All in all, it was a fun day, an incredible workout, and a great introduction to a really neat facet of ham radio for a future ham. And oh yeah, for those that watch the video, we were tongue-in-cheek the entire day about getting this payload down. Please - no one misconstrue our certainty in getting the payload container as an attempt to belittle anyone else's previous attempts. Had others not tried the methods they did previously, I would have been up there today trying those same things. I was just fortunate to learn from their trials on what to do and not to do. As always, this is a collaborative effort and it takes all of us to either design the thing, inflate the thing, launch the thing, track the thing or recover the thing. I'm glad I got to be a part of this mission. So, until next weekend, this spud's for you!
>
> 73s,
> Travis
> N4TJM
>

2191. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 18:51:12 UTC
From: PAUL VERHAGE
Topic: 2157 Message: 2191

Since air density drops with increasing altitude, the indicated air speed of the balloon decreases. That may influence Cd. I guess it's time to figure what goes into determining Cd.

Paul

>>> manes@... 4/1/2006 4:30 pm >>>
Hi Paul,

Yeah, just doing the W = D = Cd x Ae x v^2 x d doesn't result in constant ascent rate, even letting Ae rise as 2/3 root of d. That's what prompted us to dig deeper into the fluid dynamics - and STILL couldn't get a constant w/o tweaking Cd as a function of altitude.

Master's thesis, anyone?

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> I tried looking at the drag equation and seeing if I could show the
> balloon's speed should be constant. But I kept coming up with a
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>>>>manes@... 3/24/2006 9:57:24 pm >>>
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> Hi Hank,
>
> Well, like so much other technology that's been once well-understood
> and slowly forgotten (like the MIT Series), I'd be not surprised if
> somewhere lurking out there is a paper which precisely describes
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> Sounds like a great topic for an aero engineer's master's thesis!
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> Any takers?
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> Hank Riley wrote:
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>>>We were deep in to Reynolds and

>>>Grashof numbers and finally decided that the only way that this
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

Yahoo! Groups Links

2192. Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL annoucement?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 22:10:24 UTC
From: Zack Clobes
Topic: 2192 Message: 2192

I'm putting together a short blurb to announce GPSL 2006, but would like some logo/graphic to go with it.

Zack

2193. Re: [GPSL] Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL annoucement?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 22:15:05 UTC
From: Keith Kaiser
Topic: 2192 Message: 2193

Try this.

http://kaiserklan.com/images/ARHAB-logoT.gif

On 4/2/06, Zack Clobes <zclobes@...> wrote:
> I'm putting together a short blurb to announce GPSL 2006, but would like
> some logo/graphic to go with it.
>
> Zack
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> Yahoo! Groups Links
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YIS/YIV
Keith D Kaiser -- Venturing Roundtable Commissioner
kaiserklan.com
kaiserklan.com/roundtable
kaiserklan.com/wa0tjt
keith.kaiser@...

2194. Re: [GPSL] Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL annoucement?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 22:45:25 UTC
From: Zack Clobes
Topic: 2192 Message: 2194

Do you have a higher resolution file for it? I think he'll want roughly
300dpi to go into print.

Zack

Keith Kaiser wrote:
> Try this.
>
> http://kaiserklan.com/images/ARHAB-logoT.gif
>
> On 4/2/06, Zack Clobes <zclobes@...> wrote:
>
>> I'm putting together a short blurb to announce GPSL 2006, but would like
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> YIS/YIV
> Keith D Kaiser -- Venturing Roundtable Commissioner
> kaiserklan.com
> kaiserklan.com/roundtable
> kaiserklan.com/wa0tjt
> keith.kaiser@...
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> Yahoo! Groups Links
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2195. Re: [GPSL] Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL annoucement?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 23:16:43 UTC
From: Keith Kaiser
Topic: 2192 Message: 2195

This was just a proposal from about a year ago I doubt very much a high def version of it exists... sorry about that. To my knowledge there is no official logo for ARHAB just the verious clubs with their own versions, this could very well be as close as it will come. But I bet if you wanted to design one and make it available for us that would work too.

Good luck.

On 4/2/06, Zack Clobes <zclobes@...> wrote:
> Do you have a higher resolution file for it? I think he'll want roughly
> 300dpi to go into print.
>
> Zack
>
> Keith Kaiser wrote:
> Try this.
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> YIS/YIV

> Keith D Kaiser -- Venturing Roundtable Commissioner
>
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YIS/YIV
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kaiserklan.com/roundtable
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keith.kaiser@...

2196. Re: [GPSL] Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL annoucement?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-03 03:02:47 UTC
From: Hank Riley
Topic: 2192 Message: 2196

>Do you have a higher resolution file for it? I think he'll
>want roughly 300dpi to go into print.

Zack,

I can recreate a clone of that image given just a little time to learn how to drive Corel Draw software I just picked up a few days ago.

That will yield a vector graphic representation which means a bit mapped image can be generated to any dpi resolution needed.

It will be good practice anyway. I do know how to draw a nice, smooth curved line now, but that's about it.

I'll try to have something by Monday evening.

If anyone else has either Corel or Adobe Illustrator and is more adept, please have at it.

Hank

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2197. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-02 22:32:11 UTC
From: Mike Manes
Topic: 2157 Message: 2197

Hi Ralph,

Took some time to study your web page on ascent rate data from 2001 and 2002.

I looked for flights that launched nearly simultaneously from the same site. EOSS-49 and -50 both launched in Apr 01, but exhibited very different ascent rates, especially below 25K'. The reason is most likely due to differences in balloon configurations:

EOSS-49 used a 1200 gm latex to carry up about 11 lb of Colo SGC and EOSS payloads - fairly common configuration. However, I suspect that there may have been a leak in the balloon that cut the ascent rate from an initial 1200 fpm to less than 700 fpm above 35K'. I rather doubt that there was a 500 fpm downdraft over Windsor from 35k' on up to 88K', or a 500 fpm updraft from sfc to 25K'. However, a slight negative inflection in ascent rate somewhere around the tropopause isn't all that uncommon.

EOSS-50 was an experiment for Pioneer Astronautics, where the main lift balloon was a 3000 gm latex, and attached below were three underfilled 600 gm latex "drag balloons". It launched 1 hour after EOSS-49. As I recall, the drag balloons burst well before the 3000 gm let go at 104K'.

What's wierd is that one wouldn't have expected EOSS-49 to be the one to have exhibited the anomolous ascent profile.

Referring to the 30 Jun 01 data, the NSTAR and NSBG profiles look pretty similar, except that the NSBG data shows a lot more spread than NSTAR. This might be attributable to GPS altitude report errors, which also are not that uncommon, and are worse where GPS signal quality is impaired; this is a factor which probably deserves some attention.

Now, the TVNSP bird appears underfilled from the git-go. But all 3 do show similar singularities in ascent rate at about 40K' (June tropopause?).

I guess the real question that started this thread is why we don't observe a generally exponential ascent rate curve over altitude that a constant Cd would predict, rather than the more common constant+/-20% or so that we so often observe.

Since 2001, EOSS has been flying quite a few "two-fers" for Colo SGC, launching about 45 minutes apart and using identical 3000 gm balloons and nearly equal neck loads. It might be instructive to include

those data in this study as well. Now, note that we have tweaked
with % excess lift between pairs of two-fers from time to time, but
those show up right away in the initial ascent rate. Another variable
is surface wind during fill; 45 minutes can make a world of difference
over even that short time span.

Until there's more study of what factors affect balloon ascent rate,
other than GPS errors and vertical air currents, then I guess we're
stuck with SWAGging a near-constant rate pre-launch, and keeping
track during the flight to know what's really going on.

73 de Mike W5VSI EOSS

Ralph Wallio, W0RPK wrote:
> Ok, then what causes the extreme variability in ascent rate during most flights and
months(?) Note
> that in the June01 graphic that there were three simultaneous flights. Two flights have
similar
> ascent rate variations. The third is very different. Perhaps -average- ascent rate is a
hint. The
> two similar flights averaged ~1,000ft/min. The third averaged ~500ft/min. --w0rpk
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2198. Re: [GPSL] Does anyone have the "official" ARHAB logo that they could to Gene...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-03 03:49:04 UTC
From: wb8elk@aol.com
Topic: 2198 Message: 2198

My brother Jeff Brown N8UEJ is a graphic artist for a TV station in Dayton, OH...he did the logo for me: _http://www.wb8elk.com_ (http://www.wb8elk.com) and most recently for Arbonet.

I'll send him Keith's graphic and see what he can do with it for ARHAB....If anyone has other graphic ideas for ARHAB or wants one done for their group feel free to email him: _graphman@..._
(mailto:graphman@...)

- Bill WB8ELK

2199. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-03 03:58:54 UTC
From: wb8elk@aol.com
Topic: 2157 Message: 2199

I have the raw data from dozens of Ozonesonde flights taken a week apart....the Vaisala pressure sensor used is more consistent than what you'd see for GPS altitude and seem to correspond closely with GPS readings from two calibration flights I flew with them last year....In the first flight we saw a deviation between the sensor and the GPS altitude above 90,000 feet but up to that point the pressure altitude corresponds very closely to the averaged GPS readings....the second flight was dead on up to 92,000 feet and then we lost the GPS above that. I'm looking forward to doing one more GPS calibration file and see how things work above 90k.

The neat thing with these flights is that the pressure altitude readings are in 1 second increments and won't show the GPS altitude variances normally seen with GPS data.

I'll try to plot a few of them when I return from Ohio to see how they compare....they are filled to almost the same precise lift, same balloons and flight train configuration (except for the flights where I hitchhike with them).

- Bill WB8ELK

2200. Re: [GPSL] Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL an

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-03 13:19:24 UTC
From: PAUL VERHAGE
Topic: 2192 Message: 2200
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2201. [Fwd: Re: [UTARC Chat] UX-7 Video Fixed]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-03 19:30:44 UTC
From: David Hoffman
Topic: 2201 Message: 2201
Attachments: 1 described; binary payloads are missing from this source WARC

David Hoffman - KE4FGW

---------- Original Message ---------- Subject: Re: [UTARC Chat] UX-7 Video Fixed
From: "Mike Coffey"
Date: Mon, April 3, 2006 4:14 pm
To: "UTARC general chat list"

Travis' downloadable video is online at:

http://balloon.utarc.org/ux7recovery.wmv (74 MB)

And, I might add, Travis did a really nice job with it. All we need to do is to add some back-story commentary and some select pictures and it's definitely Slashdot-worthy material. Brace yourself,
Sunsite. :-P

Mike

On Apr 3, 2006, at 10:57 AM, Travis J. Maclay wrote:

> I think I know what happened with the encoding on the UX-7 video. It has been fixed and is being uploaded now to the UTARC FTP site. When it is finished, I assume that Mike or someone can check it in and move it to where it needs to go. Be forewarned, however, it is 73.8 MB. If you download, you're gonna want high speed access first. It is in WMV format.
>
> 73,
> Travis
> N4TJM
> _____
> chat site list
> chat@...
> http://deathstar.asa.utk.edu/mailman/listinfo/chat

_____
chat site list
chat@...
http://deathstar.asa.utk.edu/mailman/listinfo/chat

2202. Re: Does anyone have the "official" ARHAB logo that they could to Gene Harlan for the GPSL an

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-04 02:37:51 UTC
From: Hank
Topic: 2192 Message: 2202

> Do you mean this one?

Paul,

That's a much higher resolution version of what was previously
uploaded.

It should be plenty good for magazine reproduction.

For the record, the clone is coming along -- about 2/3 done.
These fancy graphics programs are tough with respect to the
steepness of their LCs.

Hank

2203. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-04 04:04:01 UTC
From: Mike Manes
Topic: 2157 Message: 2203

Hi Bill,

Hey, do you have specs and a source for the Vaisala baro sensor?
We could use a few more really good ones for payloads and the
altitude chamber. Our single Honeywell/Microswitch sensor gets
swapped between a payload and the chamber between flights.

73 de Mike W5VSI
EOSS

wb8elk@... wrote:
> I have the raw data from dozens of Ozonesonde flights taken a week
> apart....the Vaisala pressure sensor used is more consistent than what
> you'd see for GPS altitude and seem to correspond closely with GPS
> readings from two calibration flights I flew with them last year....In
> the first flight we saw a deviation between the sensor and the GPS
> altitude above 90,000 feet but up to that point the pressure altitude
> corresponds very closely to the averaged GPS readings....the second
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> how things work above 90k.
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> The neat thing with these flights is that the pressure altitude readings
> are in 1 second increments and won't show the GPS altitude variances
> normally seen with GPS data.
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> I'll try to plot a few of them when I return from Ohio to see how they
> compare....they are filled to almost the same precise lift, same
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> hitchhike with them).
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> - Bill WB8ELK
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> SPONSORED LINKS
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2
=Craft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=Sz5ebNg-ZsVyHTzaR4PnAg>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
y&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=_8V4kQCK4PEN_MzUUBx-hQ>
> Hobbies and crafts
> <http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Hobby+and+craft+supply&w2=Cra
ft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=J-__6L1W_lZQ58dekNdHLA>

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> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ>
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> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2204. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-04 13:28:46 UTC
From: PAUL VERHAGE
Topic: 2157 Message: 2204

I had an idea last night.

I'd like to develop a barometric climb indicator. Is there a simple way to sample the voltage from a pressure sensor and hold it in a memory for one minute? I'd like to compare the pressure reading from one minute ago with a current pressure reading. The two voltages are the inputs to a comparator. If the pressure has dropped between the two measurements, then the comparator outputs +5V, but if the pressure had increased, then the comparator outputs a 0V. By monitoring the output of the comparator your flight computer can determine if the balloon has burst without a GPS.

Paul

>>> manes@... 4/3/2006 10:04 pm >>>
Hi Bill,

Hey, do you have specs and a source for the Vaisala baro sensor?
We could use a few more really good ones for payloads and the
altitude chamber. Our single Honeywell/Microswitch sensor gets
swapped between a payload and the chamber between flights.

73 de Mike W5VSI
EOSS

wb8elk@... wrote:
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> you'd see for GPS altitude and seem to correspond closely with GPS
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> I'll try to plot a few of them when I return from Ohio to see how
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I
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> - Bill WB8ELK
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> SPONSORED LINKS
> Hobby and craft supply
>
<http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2=C
raft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=Sz5ebNg-ZsVyHTzaR4PnAg>

> Craft hobby
>
<http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=_8V4kQCK4PEN_MzUUBx-hQ>

> Hobbies and crafts
>
<http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Hobby+and+craft+supply&w2=Craft
+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=J-__6L1W_lZQ58dekNdHLA>

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> Ham radio
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<http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&w3
=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ>

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> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>"
on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

Yahoo! Groups Links

2205. Re: [GPSL] Sensing pressure change to initiate after-burst cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-04 14:49:44 UTC
From: Hank Riley
Topic: 2157 Message: 2205

>Is there a simple way to sample the voltage from a pressure
>sensor and hold it in a memory for one minute?

>I'd like to compare the pressure reading from one minute ago
>with a current pressure reading.

Paul,

I'm not sure if it would be possible to do both "simple" AND reliable (under the very low temperatures that might be encountered) using linear circuit techniques.

However, with reduced pin and part count microcontrollers, this would be pretty easy to do with one or two extra op amp packages for the weak pressure sensor (for the more conventional current or voltage output pressure sensor, not the cap type that Vaisala favors) signal.

Using a micro would also allow a simple algorithm that would be hard to fool into calling for a cutdown due to momentary glitches.

Hank

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http://mail.yahoo.com

2206. Oregon Sci. Video camera for ballooning?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-04 20:20:26 UTC
From: Arnie Grubbs
Topic: 2206 Message: 2206

Hi All...
Been quietly watching this YahooGroup for a number of years now.
Yesterday I saw an interesting device that might be good for some "air time",
and thought I would post it here..

It only records in 640x480, but with a 1-2GB SD card you could probably get
several hours of flight video.. They do caution about battery power at low temps though...

http://www2.oregonscientific.com/shop/product.asp?cid=6&scid=14&pid=560

After checking the link, click on the 'mini-website' link to see some video.

73 - KA0NCR - Arnie

_____
Do You Yahoo!?
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http://mail.yahoo.com

2207. Re: [GPSL] Oregon Sci. Video camera for ballooning?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-04 20:27:18 UTC
From: PAUL VERHAGE
Topic: 2206 Message: 2207

It sounds like the video camera I picked up last year at GPSL after seeing HABITATS.

Paul

>>> vhuntertdi@... 4/4/2006 2:20 pm >>>
Hi All...
Been quietly watching this YahooGroup for a number of years now.
Yesterday I saw an interesting device that might be good for some "air time",
and thought I would post it here..

It only records in 640x480, but with a 1-2GB SD card you could probably get
several hours of flight video.. They do caution about battery power at low temps though...

http://www2.oregonscientific.com/shop/product.asp?cid=6&scid=14&pid=560

After checking the link, click on the 'mini-website' link to see some video.

73 - KA0NCR - Arnie

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Yahoo! Groups Links

2208. Re: [GPSL] Oregon Sci. Video camera for ballooning?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-05 01:14:53 UTC
From: Mark Conner
Topic: 2206 Message: 2208

Looks like a smaller form factor than the Aiptek 4-in-1/5-in-1
cameras, but around the same price (this one is $120, might be cheaper
elsewhere). HABITAT has had good success with their Aiptek camera.

Video quality is not quite as good as a VHS-C/Hi-8/DV camera, but it's
quite a bit less weight and volume and with a large card a longer
record time.

73 de Mark N9XTN

On 4/4/06, PAUL VERHAGE <paul.verhage@...> wrote:
> It sounds like the video camera I picked up last year at GPSL after
> seeing HABITATS.
>
> Paul
>
> >>> vhuntertdi@... 4/4/2006 2:20 pm >>>
>
> Hi All...
> Been quietly watching this YahooGroup for a number of years now.
> Yesterday I saw an interesting device that might be good for some "air
> time",
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> 73 - KA0NCR - Arnie
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> YAHOO! GROUPS LINKS
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> Visit your group "GPSL" on the web.
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> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>

> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
>
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> Your use of Yahoo! Groups is subject to the Yahoo! Terms of Service.
> ---------------------------------
>

2209. Re: [GPSL] Oregon Sci. Video camera for ballooning?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-05 15:06:12 UTC
From: John C Nordlie
Topic: 2206 Message: 2209

Cool. Here's another chip video camera for only slightly cheaper:

http://www.bhphotovideo.com/bnh/controller/home?O=productlist&A=details&Q=&sku=332786&is=REG&addedTroughType=categoryNavigation

Same resolution, possibly less robust, very light-weight (looks like
most of the internals of a videocamera cell phone without the phone).
Records 2 hours of video with a 512MB SD card.

==========
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==========

On Tue, 4 Apr 2006, Arnie Grubbs wrote:

> Hi All...
> Been quietly watching this YahooGroup for a number of years now.
> Yesterday I saw an interesting device that might be good for some "air time",
> and thought I would post it here..
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> It only records in 640x480, but with a 1-2GB SD card you could probably get
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> Yahoo! Groups Links
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2210. Re: [GPSL] The mystery of the near constant ascent speed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-06 02:08:20 UTC
From: Mike Manes
Topic: 2157 Message: 2210

Hi Paul,

Here's another unabashedly non-high-tech way to get a barometric pressure rate-of-change indication:

Use a very sensitive DIFFERENTIAL pressure transducer, e.g. inches of water full scale. Vent one port directly to ambient, and bond the other port to a fixed volume which also has a very small orifice vented to ambient. The fixed volume serves as the "memory" of earlier pressure, so to speak. If ascent rate is fast, the pressure in the volume will be greater than ambient, since the orifice flow must be greater.

The volume could be made from a ping-pong ball. Differential sensors are also a lot less expensive than absolute sensors, and in this service, they needn't be nearly as a accurate and stable as an absolute sensor.

Now, I suspect that the "gain" of this scheme will vary quite a bit with altitude, however. But I have a feeling that it's the same method used in aircraft vertical speed indicators and in hot air balloon wotchamacallits. Those instruments may have a means to adjust orifice size as a function of altitude.

This is an idea that's been floating around in my head for a few years, as yet awaiting that coveted "round tuit". But if this interests you, go fer it! Be interested in seeing what you learn from it.

73 de Mike W5VSI (W5 Vertical Speed Indicator)
EOSS

PAUL VERHAGE wrote:
> I had an idea last night.
>
> I'd like to develop a barometric climb indicator. Is there a simple
> way to sample the voltage from a pressure sensor and hold it in a memory
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> of the comparator your flight computer can determine if the balloon has
> burst without a GPS.
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> Paul
>

>
>>>>manes@... 4/3/2006 10:04 pm >>>
>
> Hi Bill,
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> Hey, do you have specs and a source for the Vaisala baro sensor?
> We could use a few more really good ones for payloads and the
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> swapped between a payload and the chamber between flights.
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> 73 de Mike W5VSI
> EOSS
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> wb8elk@... wrote:
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> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Hobby+and+craft+supply&w2
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>
>> Craft hobby
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> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Hobby+and+craft+supply&w2=Craft+hobb
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>> Hobbies and crafts
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>
> <http://groups.yahoo.com/gads?t=ms&k=Hobbies+and+crafts&w1=Hobby+and+craft+supply&w2=Cra
ft+hobby&w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=J-__6L1W_lZQ58dekNdHLA>
>
>>Ham radio
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> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Hobby+and+craft+supply&w2=Craft+hobby&
w3=Hobbies+and+crafts&w4=Ham+radio&c=4&s=84&.sig=OzrEr-gq6h7guAFs73WsoQ>
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>> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>"
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>> the web.
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>>
>> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
>> Service <http://docs.yahoo.com/info/terms/>.
>>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2211. Taylor Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-06 12:41:36 UTC
From: Holmes, Will
Topic: 2211 Message: 2211

Within the hour Taylor University will launch our BalloonSat 25 (or at least some number close to 25). This launch is in cooporation with Taylor's advanced electronics class. The main experiment of the day is testing a wireless zigbee network between pods on the balloon. The different pods will communicate with each other through zigbee (a wireless network protocol that uses the 2.4 GHz band). The data from the pods will be collected by the command pod and transmitted to our ground station through a 900 MHz modem.

The data collected by the pods have to do with UV and ozone detection.

You can track the BalloonSat using KB9ZNZ

Will Holmes

Assistant Professor of Engineering Physics

Taylor University

mailto: wlholmes@...

voice: (765) 998-4672

2212. ORB Address

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-07 20:14:27 UTC
From: PAUL VERHAGE
Topic: 2212 Message: 2212

I need ORB's address for the 2005 competitions. Harry, where do you want your prize sent to?

Paul

2213. Re: [GPSL] ORB Address

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-08 19:06:38 UTC
From: hhm_74115@cox.net
Topic: 2212 Message: 2213

Hi Paul,

My QRZ address is fine.

Thanks & 73
Harry

2214. CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-11 00:58:16 UTC
From: Zack Clobes
Topic: 2214 Message: 2214

I'm now taking volunteers and requests for sessions at the 2006 GPSL in Hutchinson. If you are interested in presenting, please include the following in your response:

Topic (5 words or less)

Short description of your presentation (2 sentences or more)

How much time do you expect the presentation and related questions to take?

Do you have a preference of when you present?

What resources will you need for your program (projector, computer, DVD, tables, spinning rooms, etc)?

If you are not interested in presenting, but would like to see someone else speak on a specific topic, I'd be interested in hearing your suggestions.

Zack Clobes, W0ZC
Project: Traveler

2215. Re: [GPSL] CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-11 02:04:36 UTC
From: Troy Campbell
Topic: 2214 Message: 2215

Zack:

Topic:
OnLine Flight Prediction Service

Description:
Demonstrate the work flow for interfacing the perl based balloon track software with www.arl.noaa.gov/cmet.html.

Demonstrate the interfacing of the resulting computed track files to google maps V-2

Demonstrate the source code and usage of the on-line ascent calculation.

Demonstrat the open-source graphing software and interface for the graphs used in the on-line balloon tracking system (currently only one graph but working on some more)

Present some ideas for expansion of the system. Q&A

Length:
The actual presentation shouldn't take more that 15-20 minutes. If the questions aren't to involved, that should be all.

Schedule:
Don't have a preference on presentation time.

Requirements
Spinning rooms are optional. Mostly will need a projector, computer with a reasonable browser on it. and internet connectivity. Worst comes to worst and I can bring a projector and computer, I'll just need an internet connection (faster than a dialup or google maps will crawl).

73 de Troy KC0MIC
Near Space Ventures
CAPnSpace

Zack Clobes <zclobes@...> wrote: I'm now taking volunteers and requests for sessions at the 2006 GPSL in
Hutchinson. If you are interested in presenting, please include the
following in your response:

Topic (5 words or less)

Short description of your presentation (2 sentences or more)

How much time do you expect the presentation and related questions to take?

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If you are not interested in presenting, but would like to see someone else speak on a specific topic, I'd be interested in hearing your suggestions.

Zack Clobes, W0ZC
Project: Traveler

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2216. Re: [GPSL] CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-11 03:42:27 UTC
From: wb8elk@aol.com
Topic: 2214 Message: 2216

Hi Zack,

Topic: Long Duration Flight techniques

Time: 45 mins or more preferable

Needed: Computer with projector, DVD player, VHS VCR

Also, I'd like to do a Balloon Bloopers segment....any groups with fun blooper photos or videos, please email me or forward to me. I have quite a collection of my own missions gone totally awry but definitely would love things from as many groups as possible.

- Bill WB8ELK

2217. Re: [GPSL] CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-12 13:31:44 UTC
From: PAUL VERHAGE
Topic: 2214 Message: 2217

I just found out a lot of my email is blocked by Group Wise as spam.
for some reason, stuff from GPSL is often blocked. I can now see the
blocked email, so I shouldn't miss any more messages. If someone
emailed me and I didn't reply, please contact me.

I'll present on BalloonSats in high school. I'm getting ready to write
about them again and will have some products I'm developing. So my
topic is, BalloonSats in High School. I'll talk about some new
construction techniques and experiments. I won't need more than 30
minutes (I think that's typical for us). I don't care when I present
and I'll need a LCD projector.

Thanks for hosting GPSL this year.

Paul

>>> zclobes@... 4/10/2006 6:58 pm >>>
I'm now taking volunteers and requests for sessions at the 2006 GPSL in

Hutchinson. If you are interested in presenting, please include the
following in your response:

Topic (5 words or less)

Short description of your presentation (2 sentences or more)

How much time do you expect the presentation and related questions to
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If you are not interested in presenting, but would like to see someone

else speak on a specific topic, I'd be interested in hearing your
suggestions.

Zack Clobes, W0ZC
Project: Traveler

Yahoo! Groups Links

2218. Re: [GPSL] CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-12 14:48:23 UTC
From: mconner1@gmail.com
Topic: 2214 Message: 2218

Topic: Meteorological aspects of high-altitude ballooning

Description: Basic meteorological factors affecting high altitude balloon launches and track predictions. Understanding meteorological charts and models. Forecasting tips.

Time: 45-60 min (includes Q&A)

Resources: Computer with projector and PowerPoint

For those of you at GPSL 2002 at KSU, this talk will be an update of the one given there.

73 de Mark N9XTN

2219. Data Logger

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-13 19:48:47 UTC
From: Gene Harlan
Topic: 2219 Message: 2219

Just got an email that showed me something I had not seen before, a USB data logger. They have one for temp, temp and humidity, and for voltage. Works by itself and get data by plugging into your USB port. I thought it was neat.

http://www.lascarelectronics.com/

Choose English and then Data Logger.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

2220. Re: [GPSL] CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-14 00:01:14 UTC
From: Mike Manes
Topic: 2214 Message: 2220

Hi Zack,

I'd like to show the group a little widget that appears to avoid
one suspected cause of PBC:

Topic:
"Fast Burst-sensing Balloon Release"

Abstract:
Shards from a burst latex balloon remaining attached to the apex of
the parachute is a suspected major culprit leading to Post Burst
Chaos (PBC), since it can exacerbate parachute instability, especially
above about 50,000 ft. Separating the balloon lift line immediately
upon burst should eliminate thus undesired effect. EOSS has developed
and successfully test-flown such a device, which, once armed, will
release the balloon lift line immediately after the line tension drops
below a predetermined trip point. ATV imagery shows a successful
release and no signs of PBC and will be shown as a wmv movie. Other
PBC-avoidance schemes will also be discussed, along with maybe some
spooky pix of PBC consequences.

Time: 15-20 minutes + Q&A.

A/V: SVGA projector. Hold the spinning room :-{.

2nd topic:

One of our newer members, Steve Meer K0SCC, is working on a wireless
"Balloon LAN" to permit inter-payload communications up and down the
flight string while avoiding the seemingly inevitable risk of cable
damage due to line twisting. We've test-flown it with mixed success.
But we hope it'll be proven in time for GPSL, and that Steve will
have a presentation ready to go. If so, I'll let Steve respond
with your requested info, or a "No way, Jose'" - whichever.

73 de Mike Manes W5VSI
EOSS

Zack Clobes wrote:
> I'm now taking volunteers and requests for sessions at the 2006 GPSL in
> Hutchinson. If you are interested in presenting, please include the
> following in your response:
>
> Topic (5 words or less)
>
> Short description of your presentation (2 sentences or more)
>

> How much time do you expect the presentation and related questions to take?
>
> Do you have a preference of when you present?
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> What resources will you need for your program (projector, computer, DVD,
> tables, spinning rooms, etc)?
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>
> If you are not interested in presenting, but would like to see someone
> else speak on a specific topic, I'd be interested in hearing your
> suggestions.
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> Zack Clobes, W0ZC
> Project: Traveler
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2221. FW: [cnaprs] UI-View32 Map program

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-15 00:16:59 UTC
From: Roger Hammond
Topic: 2221 Message: 2221

-----Original Message-----
From: cnaprs@yahoogroups.com [mailto:cnaprs@yahoogroups.com]On Behalf Of Rick Disney
Sent: Friday, April 14, 2006 7:07 PM
To: cnaprs@yahoogroups.com
Subject: [cnaprs] UI-View32 Map program

Hello all,

This online store is selling the early version of Precision Mapping V5.0 for $8.95 and it works great. It will, with the disk in go to street level and the detail shows sections. I think this would be great for spotting with the software detail. I bought it and it beats Street Atlas hands down..IMHO

http://www.nothingbutsoftware.com/catalog_type_page/ProductCode/34058

73's
Rick KA?DIZ

Yahoo! Groups Links

2222. Re: [GPSL] CALLING ALL PRESENTERS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-16 03:54:27 UTC
From: Mike Manes
Topic: 2214 Message: 2222

Hey, that's great, Steve!

I'm sure the GPSL audience will take a lot of interest in the B-LAN;
there's been chatter about such a thing for a couple of years now.

The past GPSL conference sessions have been pretty informal in view
of the "visiting firemen" nature of the audience. Kinda like
some of the presentations at EOSS meetings. Last year, the audience
was about 50 or 60 as I guesstimate, and included some
professional educators from Space Grant colleges just getting into
this business. This is quite an evolution in just a few years.

The venue will be in a hotel meeting room with all the necessary
A/V hookups for PPT, DVD, VHS etc I assume. Show & tell can be
on a sidebar table during breaks or embedded in your talk - your
call.

The number of presentations has also grown, so keeping your pitch
as concise as possible may be important.

That's about all the guidance that I can give you, based on having
done 3 GPSLs so far. Perhaps Zack can provide further?

73 de Mike W5VSI

Meer, Stephen wrote:
> Mike/Jack
>
> First, Mike thanks for thinking of me.
>
> I suspect that we will have a few B-LAN flights under our belt by the
> time we get to GPSL. I would be happy to present the concept, some
> fundamental system design considerations that I have been using for the
> design and the status to date (whatever it is at that point). This will
> be my first GPSL so I'm not familiar with how presentation forums are
> done. My guess is that presentations are lecture/discussion with some
> viewing of parts and possibly demonstration and/or hardware viewing? If
> this would be the correct format here is my info:
>
>
>
> Topic:
> Balloon LAN - Inter-payload Wireless Data Communications Environment
>
> Abstract:
> EOSS is working on the development of a low cost standardized
> inter-flight string wireless data communications system to facilitate

> both flight control and payload data sharing during flight. The system
> is based on commercially available of the shelf (COTS) components and
> purpose written firmware and software. This presentation will discuss
> the concept, system design fundamentals, project status and review
> flight results to date. Examples of flight hardware will also be
> available for viewing.
>
> Time: 15-20 min + Q&A.
>
> Required support: VGA projector and screen. Table to display hardware
> and possibly conduct a demo if I get my act together.
>
> Please let me know the details/drill if you are interested in this
> presentation.
>
> Best Regards /s/Stephen Meer, K0SCC EOSS Colorado
>
>
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Thursday, April 13, 2006 6:01 PM
> To: Zack Clobes
> Cc: GPSL@yahoogroups.com; Meer, Stephen; Marty Griffin WA0GEH
> Subject: Re: [GPSL] CALLING ALL PRESENTERS
>
> Hi Zack,
>
> I'd like to show the group a little widget that appears to avoid one
> suspected cause of PBC:
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> Topic:
> "Fast Burst-sensing Balloon Release"
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> Abstract:
> Shards from a burst latex balloon remaining attached to the apex of the
> parachute is a suspected major culprit leading to Post Burst Chaos
> (PBC), since it can exacerbate parachute instability, especially above
> about 50,000 ft. Separating the balloon lift line immediately upon
> burst should eliminate thus undesired effect. EOSS has developed and
> successfully test-flown such a device, which, once armed, will release
> the balloon lift line immediately after the line tension drops below a
> predetermined trip point. ATV imagery shows a successful release and no
> signs of PBC and will be shown as a wmv movie. Other PBC-avoidance
> schemes will also be discussed, along with maybe some spooky pix of PBC
> consequences.
>
> Time: 15-20 minutes + Q&A.
>
> A/V: SVGA projector. Hold the spinning room :-{.

>
> 2nd topic:
>
> One of our newer members, Steve Meer K0SCC, is working on a wireless
> "Balloon LAN" to permit inter-payload communications up and down the
> flight string while avoiding the seemingly inevitable risk of cable
> damage due to line twisting. We've test-flown it with mixed success.
> But we hope it'll be proven in time for GPSL, and that Steve will have a
> presentation ready to go. If so, I'll let Steve respond with your
> requested info, or a "No way, Jose'" - whichever.
>
> 73 de Mike Manes W5VSI
> EOSS
>
> Zack Clobes wrote:
>
>>I'm now taking volunteers and requests for sessions at the 2006 GPSL
>>in Hutchinson. If you are interested in presenting, please include
>>the following in your response:
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>>Topic (5 words or less)
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>>Short description of your presentation (2 sentences or more)
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>>How much time do you expect the presentation and related questions to
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> take?
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>>Do you have a preference of when you present?
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>>What resources will you need for your program (projector, computer,
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>>If you are not interested in presenting, but would like to see someone
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>>else speak on a specific topic, I'd be interested in hearing your
>>suggestions.
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>>Zack Clobes, W0ZC
>>Project: Traveler
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>>Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2223. GPSL Motel

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-16 19:17:26 UTC
From: Harry M
Topic: 2223 Message: 2223

GPSL Motel

Has there been a consensus on the motel for GPSL?
I can't find any old email in regard to that.

73 Harry KC5TRB

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

2224. Re: [GPSL] GPSL Motel

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-17 00:33:24 UTC
From: Harry M
Topic: 2223 Message: 2224

I forgot about the GPSL website. It looks like the Grand Prarie Hotel is where all the action is... Unfortunatly it's all booked for GPSL weekend. I got a room at the Microtel Inn at 1420 N Lorraine. Looks like they still have plenty of rooms left.

Harry KC5TRB

2225. Re: [GPSL] GPSL Motel

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-17 00:39:30 UTC
From: Zack Clobes
Topic: 2223 Message: 2225

The Grand Prairie claims that they're reserving roughly 30 rooms up through the middle of July for us. They may not have it in their systems because they don't have the signed contract back in their hands yet.

The GP may be a little more expensive at $74 a night, but I'd be inclined to recommend them. In all honesty though, the Microtel is well within walking distance.

I'll get the contact back to those guys this week so you can switch reservations if you like.

Zack

Harry M wrote:
> I forgot about the GPSL website. It looks like the Grand Prarie
> Hotel is where all the action is... Unfortunatly it's all booked for
> GPSL weekend. I got a room at the Microtel Inn at 1420 N Lorraine.
> Looks like they still have plenty of rooms left.
>
> Harry KC5TRB
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> Yahoo! Groups Links
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2226. Re: [GPSL] GPSL Motel

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-17 01:23:35 UTC
From: Harry M
Topic: 2223 Message: 2226

Thanks Zack!

I just called them and they do have the GPSL rooms for the 4th & 5th @ $79 + tax. They had an opening on the 3rd so I made my reservation for the 3-4-5. I wanted two beds, but they only had a room for the three nights with one king bed. I was told the rooms with a king bed have a foldout couch so that works for me.

I will cancel the Microtel reservation.

73 Harry

2227. CO2 sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-18 16:56:21 UTC
From: mconner1@gmail.com
Topic: 2227 Message: 2227

Anyone out there got a line on a relatively cheap CO2 sensor that could be flown on a balloon payload? The smallest/lightest I've seen requires 10V at nearly 200 mA and is rated for only 0-50°C.

73 de Mark N9XTN

2228. [Fwd: Balloon Conference Announcement and Call for Papers]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-19 21:58:04 UTC
From: Mike Manes
Topic: 2047 Message: 2228

I'm assuning that the venue is at Iowa State U.?
73 de Mike W5VSI
EOSS

-------- Original Message --------
Subject: Balloon Conference Announcement and Call for Papers
Date: Tue, 18 Apr 2006 09:03:41 -0500
From: William Byrd <wbyrd@...>
To: glehmac@..., James.Zipay@..., deritchie@...,
seifert@..., trevor.williams@..., shermane.austin@...,
shermane@..., btwiggs@..., wwaller@...,
mfortney@..., liutma@..., kmcaviezel@...,
WB8ELK@..., w5vsi@..., john.baker@..., "Cardenas, Jeff"
<Cardenas@...>

Announcing
*SmallStat 2006
*A conference on Small Balloon Science, Technology and Operations
18 - 19 September 2006

Conference Web Site: http://www.ia.spacegrant.org/smallstat/

This event is open to Researchers, Students, Amateur Radio balloonists
or anyone interested in small balloon activities. Distinguished
speakers from Government (including FAA, NASA, NRL and Air Force),
Industry, and Academe will present in plenary session as well as invited
speakers in technical sessions (see web site for Call for Papers).
Please broadly distribute this announcement and encourage abstract
submissions.

The event includes a *STUDENT POSTER SESSION* with a top prize of $1000
plus a ballon from Global Western, $750 2nd place, and $250 3rd place.
A huge corporate recruiting event with over 200 companies is held in
conjunction with this event.

Prize Drawing for Amateur Radio Operators to win a Balloon from Global
Western

I hope to see you and your colleagues there.

Bill Byrd
Conference Host

SmallStat 2006 is an activity of the Great Midwestern Space Grant region

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Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

2229. Re: [GPSL] [Fwd: Balloon Conference Announcement and Call for Papers]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-20 02:59:02 UTC
From: Mark Conner
Topic: 2047 Message: 2229
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2230. Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-20 19:05:14 UTC
From: PAUL VERHAGE
Topic: 1879 Message: 2230

Is there an interest in creating a Wiki entry for ARHAB?

Paul

2231. Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-24 20:11:03 UTC
From: Mike Manes
Topic: 2231 Message: 2231

Hi Pete,

Well, no one can blame you for asking a previously unanwered question!

Now, I don't have an answer, but I've cc'ed Norm Kjome of UWyo fame
to this reply, as well the Great Plains Super Launch email reflector,
where many of the more experienced US amateur balloonists hang out.
Perhaps they can tell you the answer straight away.

Lacking any luck there, suggest you Google for Kaysam balloons. Kaysam
of Japan is one of the few latex balloon mfrs left, and they may have
a web site that shows EU distributors. Their US distributor is Kaymont
in New Jersey.

You might also check
with your national weather service - it's likely that they launch
at least two radiosondes daily from the UK. You might also Google
to Vaisala, the Finnish mfr of widely-used radiosondes.

If that draws a further blank, keep rattling the cages! There's got
to be a source on your side of the big water. I've heard of
amateur balloon flights going out of Poland and Spain recently.
Perhaps Ralph Wallio can point you to their web sites.

73 de Mike W5VSI
EOSS

g0wxj wrote:
> Hi all,
>
> now I'll probably get kicked for asking this question, which has
> certainly been asked before, but.....
>
> The shipping costs from the USA are a little bit rich for us guys, so
> does anyone know of a supplier of balloons in Europe, or perhaps one
> of the big boys have a distributor over here?
>
> Sorry if I'm repeating previous questions
>
> Pete
> G0WXJ
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2232. Re: [GPSL] Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-25 03:18:17 UTC
From: Mark Conner
Topic: 2231 Message: 2232
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2233. Re: [GPSL] Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-25 11:40:44 UTC
From: Troy Campbell
Topic: 2231 Message: 2233

I contacted Totex via e-mail and then via phone about 20 months ago. They basically stated that "Their distributor in the US was Kaymont. Please contact Kaymont and don't bother us anymore." (t sounded curt but was probably just alanguage issue.)

73 de Troy KC0MIC

Mark Conner <mconner1@...> wrote: Totex is the Japanese manufacturer of the Kaymont balloons. I believe Kaysam made their own until they went out of business last year.

Kaysam was in New Jersey, Kaymont is based in New York.

The Totex web site is hard to find and has minimal English content. I couldn't really tell if their Japanese page was any better.

Good luck with your search.

73 de Mark N9XTN

On 4/24/06, Mike Manes <manes@...> wrote:
Lacking any luck there, suggest you Google for Kaysam balloons. Kaysam
of Japan is one of the few latex balloon mfrs left, and they may have
a web site that shows EU distributors. Their US distributor is Kaymont
in New Jersey.

g0wxj wrote:
> Hi all,
>
> now I'll probably get kicked for asking this question, which has
> certainly been asked before, but.....
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> The shipping costs from the USA are a little bit rich for us guys, so
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Mike Manes manes@... Tel: 303-979-4899
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2234. Re: [GPSL] Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-25 18:27:44 UTC
From: wb8elk@aol.com
Topic: 2231 Message: 2234

Hi Mike,

Kaysam went out of business a year ago....unless they have overseas operations still in effect?

Totex is the Japanese manufacturer of the balloons distributed by Kaymont in the US.

Scientific Sales distributes balloons made by a competitor of Totex in Japan called the "Weather Balloon Manufacturing Company". They are both manufactured with a similar rolled one piece method.

You can still find Kaysam balloons surplus and I still have some 2000 and 3000 gram balloons from Kaysam's going out of business sale.

- Bill WB8ELK

2235. Re: [GPSL] Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-25 21:09:19 UTC
From: Mike Manes
Topic: 2231 Message: 2235

Yer right -- I knew one of 'em dropped out lately. Merle does all
of EOSS's buying ...

It's Totex now, and they make a fine product.

Sure glad I chucked that question out to folks who know, Pete!
And if you get on Ralph's ARHAB anouncement list, you'll find several
other flights scheduled out of the EU in coming months along with
the groups' web sites. Just drop Ralph an email at his cc addr above.

Or go to http://www.ARHAB.org

73 de Mike W5VSI

Mark Conner wrote:
> Totex is the Japanese manufacturer of the Kaymont balloons. I believe
> Kaysam made their own until they went out of business last year.
>
> Kaysam was in New Jersey, Kaymont is based in New York.
>
> The Totex web site is hard to find and has minimal English content. I
> couldn't really tell if their Japanese page was any better.
>
> Good luck with your search.
>
> 73 de Mark N9XTN
>
>
> On 4/24/06, *Mike Manes* <manes@...
> <mailto:manes@...>> wrote:
>
>
> Lacking any luck there, suggest you Google for Kaysam balloons. Kaysam
> of Japan is one of the few latex balloon mfrs left, and they may have
> a web site that shows EU distributors. Their US distributor is Kaymont
> in New Jersey.
>
>
> g0wxj wrote:
> > Hi all,
> >
> > now I'll probably get kicked for asking this question, which has
> > certainly been asked before, but.....
> >
> > The shipping costs from the USA are a little bit rich for us
> guys, so

> > does anyone know of a supplier of balloons in Europe, or perhaps one
> > of the big boys have a distributor over here?
> >
> > Sorry if I'm repeating previous questions
> >
> > Pete
> > G0WXJ
> >
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> > Yahoo! Groups Links
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>
> --
> Mike Manes manes@... <mailto:manes@...>
> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
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Mike Manes manes@... Tel: 303-979-4899
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2236. Re: VCH1

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-26 14:47:06 UTC
From: Ralph Wallio, W0RPK
Topic: 2236 Message: 2236

Tony --

I am forwarding your e-mail to our GPSL list that is read by most Amateur Radio high altitude
ballooning groups.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: <NateWAC@...>
To: <W0RPK@...>
Sent: Wednesday, April 26, 2006 9:39 AM
Subject: VCH1

A while back somebody was asking about a VCH-1 SSTV communicator. I have
used mine about a half dozen times and am interested in selling it. Would you
happen to know of someone interested in buying this? Tony,N8WAC

2237. Re: [GPSL] Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-26 19:44:35 UTC
From: Mike Manes
Topic: 2231 Message: 2237

Hi Pete,

Yeah, I think one of the other folks on the GPSL reflector mentioned that Totex factory folks aren't very chatty. Just tell 'em you're running under 2 kg - but DON'T tell 'em that EOSS-103 and -104 just hauled up over 11.8 kg on two of their 3000 gm latexes to 87 and 99K ft this past weekend! We've been doing that for over 30 flights already with impunity.

We have developed a fill and lift spool that minimizes the stress on the neck, however. It's a PVC pipe reducer that fits snugly into the neck and is held in place with a screw-type hose clamp. The 1/2" NPT end fits our Helium fill hose, and the flange is outfitted with a 4-line load harness. After fill, the fill pipe is replaced by a threaded plug. I think there are photos on the EOSS web site somewhere.

I have some machine tools from India, and am quite happy with their workmanship. Since Totex is our sole source now, I'd be interested in learning more about that Indian manufacturer.

73 de Mike W5VSI

Pete Badham wrote:
> I'll have a look at the European guys sites to see what they are up to. I
> have had some information back from Totex, but boy are they hard work. They
> asked me for payload info and then told me none of the balloons they do will
> lift the weight I estimated at 2Kg. ISTR that some of you guys have done
> more than that in the past?
>
> I'll keep looking in the mean time. I have had seom good feedback from a
> manufacturer in India today, so I am waiting to see what they have to offer.
> The do some pretty sizable balloons too. Once I have the info, I'll post it
> on here.
>
> Pete - G0WXJ
> www.soar.org.uk
>
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: 25 April 2006 21:09
> To: GPSL@yahoogroups.com
> Cc: Pete G0WXJ - UK ballooning; EOSS@yahoogroups.com; Norm Kjome; Ralph
> Wallio W0RPK

> Subject: Re: [GPSL] Re: [EOSS] European balloon suppliers
>
> Yer right -- I knew one of 'em dropped out lately. Merle does all
> of EOSS's buying ...
>
> It's Totex now, and they make a fine product.
>
> Sure glad I chucked that question out to folks who know, Pete!
> And if you get on Ralph's ARHAB anouncement list, you'll find several
> other flights scheduled out of the EU in coming months along with
> the groups' web sites. Just drop Ralph an email at his cc addr above.
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> 73 de Mike W5VSI
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>>Kaysam was in New Jersey, Kaymont is based in New York.
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>>Good luck with your search.
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>>73 de Mark N9XTN
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>>On 4/24/06, *Mike Manes* <manes@...
>><mailto:manes@...>> wrote:
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>> Lacking any luck there, suggest you Google for Kaysam balloons.
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> Kaysam
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>> of Japan is one of the few latex balloon mfrs left, and they may have
>> a web site that shows EU distributors. Their US distributor is
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> Kaymont
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>> in New Jersey.
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>> g0wxj wrote:
>> > Hi all,
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>> > now I'll probably get kicked for asking this question, which has
>> > certainly been asked before, but.....
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>> > The shipping costs from the USA are a little bit rich for us
>> guys, so
>> > does anyone know of a supplier of balloons in Europe, or perhaps
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> one
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>> > of the big boys have a distributor over here?
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>> > Sorry if I'm repeating previous questions
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>> > Pete
>> > G0WXJ
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>> Tel: 303-979-4899
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Mike Manes manes@... Tel: 303-979-4899
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2238. Re: [GPSL] Re: VCH1

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-26 20:51:15 UTC
From: Mike Manes
Topic: 2236 Message: 2238

Hi Tony,

EOSS would be very much interested in getting your VCH-1 SSTV
xcvr. Contact me off-reflector to discuss terms, etc.

73 de Mike W5VSI
Prez EOSS

Ralph Wallio, W0RPK wrote:
> Tony --
>
> I am forwarding your e-mail to our GPSL list that is read by most Amateur Radio high altitude
> ballooning groups.
>
> TNX es 73 de Ralph Wallio, W?RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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>
> ----- Original Message -----
> From: <NateWAC@...>
> To: <W0RPK@...>
> Sent: Wednesday, April 26, 2006 9:39 AM
> Subject: VCH1
>
>
> A while back somebody was asking about a VCH-1 SSTV communicator. I have
> used mine about a half dozen times and am interested in selling it. Would you
> happen to know of someone interested in buying this? Tony,N8WAC
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899

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2239. GPSL 2006 Flights

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-27 02:30:23 UTC
From: Zack Clobes
Topic: 2239 Message: 2239

It's time to start thinking about your flight train for GPSL this year. If you or your group intends to fly out of Hutchinson this year, please provide me with the following:

(Note: Even if you're not sure of all the parameters at this point but do intend to fly, please let me know so that I can assign the time-slots an anticipate the gas requirements.)

1. Name of your group

2. Website for your group

3. Callsign(s) of your payload

4. A cellphone number that will be carried on the chase (for post-recovery coordination)

5. Number of transmitters and their band (specific frequencies only if you're rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq).

6. Size of balloon

7. Approx number of helium tanks required (K or T)

8. Total flight weight

9. Expected ascent/descent rate

10. Projected burst altitude

11. Special requirements/requests for the GPSL coordinator

12. Short description of your payload including cameras, transmission modes, experiments, etc.

2240. Re: [GPSL] GPSL 2006 Flights

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-27 05:11:53 UTC
From: Mike Manes
Topic: 2239 Message: 2240

Hi Zack,

I dunno. I'd considered flying the load-dump release that I'll be talking about Friday, or if we get some good results from the B-LAN, maybe the valvedown scheme that really needs that link. Not sure ATV is of general interest to the group, but if it is, we can time-share 426.25 with Bill 'ELK again. Heck, maybe even a two-fer if the T&R crew is up for it in a "ferrin land".

In any event, I assume that we'll be limited to FAR-101 exempt payload weights, right?

Any thoughts or preferances from you or the gang?

73 de Mike W5VSI, EOSS

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> If you or your group intends to fly out of Hutchinson this year, please
> provide me with the following:
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> (Note: Even if you're not sure of all the parameters at this point but
> do intend to fly, please let me know so that I can assign the time-slots
> an anticipate the gas requirements.)
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>
> 1. Name of your group
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> 2. Website for your group
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> 3. Callsign(s) of your payload
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> post-recovery coordination)
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> you're rock-bound or don't wish to be time-slotted with others on the
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Mike Manes manes@... Tel: 303-979-4899
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2241. Re: [GPSL] Re: [EOSS] European balloon suppliers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-04-28 00:55:09 UTC
From: Mike Manes
Topic: 2231 Message: 2241

Hi Pete,

Well, they probably aren't interested in talking directly to
customers - that would be skipping over their distributors.
They do make a good product, and deliveries are timely. Guess
they didn't mention an EU distributor? And yeah, your met
office might be the best contact for a balloon supplier.

Thanks for passing on the Jemco Rubber brochure. I've fwd'd
it to some of the other heavy users over here in case they're
interested in an alternate source. If you learn more, could
you copy the GPSL@yahoogroups.com reflector?

GL es 73 de Mike W5VSI, EOSS

Pete Badham wrote:
> Well, Totex I think is now a "no no", boy are those guys rude. I have
> attached a pdf from the Indian manufacturer, but I am still waiting fro the
> prices from them. I am also waiting from some of the other European groups
> to get back to me.
> I have spent the best part of 4 hours sending emails to everyone and anyone
> I can find on the net, I think my best chance are the guys at the UK Met
> office, fingers crossed someone will come back to me.
>
> As soon as I have the info from the Indian guys, I'll pass it on to you.
>
> Pete G0WXJ
> www.soar.org.uk
>
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: 26 April 2006 19:45
> To: Pete Badham
> Cc: GPSL Reflector
> Subject: Re: [GPSL] Re: [EOSS] European balloon suppliers
>
> Hi Pete,
>
> Yeah, I think one of the other folks on the GPSL reflector
> mentioned that Totex factory folks aren't very chatty.
> Just tell 'em you're running under 2 kg - but DON'T tell 'em
> that EOSS-103 and -104 just hauled up over 11.8 kg on two of
> their 3000 gm latexes to 87 and 99K ft this past weekend!
> We've been doing that for over 30 flights already with
> impunity.

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> We have developed a fill and lift spool that minimizes the
> stress on the neck, however. It's a PVC pipe reducer that
> fits snugly into the neck and is held in place with a screw-
> type hose clamp. The 1/2" NPT end fits our Helium fill hose,
> and the flange is outfitted with a 4-line load harness. After
> fill, the fill pipe is replaced by a threaded plug. I think
> there are photos on the EOSS web site somewhere.
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> I have some machine tools from India, and am quite happy with
> their workmanship. Since Totex is our sole source now, I'd
> be interested in learning more about that Indian manufacturer.
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>>I'll have a look at the European guys sites to see what they are up to. I
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>>asked me for payload info and then told me none of the balloons they do
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>>The do some pretty sizable balloons too. Once I have the info, I'll post
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>>Pete - G0WXJ
>>www.soar.org.uk
--
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2242. Ozonesonde tracking info

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-01 01:04:20 UTC
From: wb8elk@aol.com
Topic: 2242 Message: 2242

There are some interesting new ozonesonde launchsites during the month of May and also in August.....attached is a list of the operational sites....they typically launch around 1 pm local time and operate at 300 baud ASCII AFSK between 401 and 403 MHz wideband FM.

They are a lot of fun to track and recover and you get a $30 reward for returning the package.

Of particular interest for easiest recovery areas are the ones in CA near Los Angeles (Table Mountain), Valparaiso IN, Boulder CO and Huntsville AL....the one in Indiana has GPS onboard.

Attached is the website showing the launchsites and coordinates:

http://croc.gsfc.nasa.gov/intexb/ions06.html
(http://croc.gsfc.nasa.gov/intexb/ions06.html)

The typical flight profile for those of you wanting to narrow your odds with Balloon Track is: 900 ft/min ascent rate and 1100 ft/min descent rate with a max altitude of around 110,000 feet.

I usually can locate them using a 3 element Arrow with attenuator inline....and use either an ICOM R-3 or AOR 3000...anything that can tune in wideband FM between 401 and 403 MHz (AM mode will also work for added sensitivity)....in Huntsville they usually use 402.5 MHz.....the transmission will drift up to
0.5 MHz either side of center.

The current campaign of ozone soundings will be upwards of several times a week from each location and will continue until mid-May and then again in August.

- Bill WB8ELK

2243. Combat Balloon To Improve Communications

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-01 22:44:43 UTC
From: Ralph Wallio, W0RPK
Topic: 2243 Message: 2243

Combat Balloon To Improve Communications

Space war, by 1st Lt. Elizabeth Kreft, Nellis NV (AFPN) Apr 26, 2006

Warfighters who depend on ground communications for mission success will soon have improved technology, thanks to a system currently under examination here at the 2006 Joint Expeditionary
Force Experiment.

Combat Skysat uses balloons to take advantage of untapped airspace and improve line-of-site ground
communications.

"The former Air Force chief of staff, General (John P.) Jumper, wanted to explore the 'near space'
realm," said Maj. Shawn Bratton, 111th Space Operations Squadron detachment commander. "Between
where the satellites live and where the planes fly is a chunk of space where nothing is operating."

Skysat is a radio repeater platform launched into near-space. It is attached to what can be compared
to a weather balloon and can transmit information hundreds of miles farther than traditional radios.
Cruising altitude is between 65,000 and 95,000 feet.

"It simply changes the line of sight," Major Bratton said. "Special operators or any military member
who either goes on convoy operations or works in an urban environment can benefit from it."

Hilly terrain or thick walls in an urban environment can weaken radio transmissions, but if the
signal is bounced off an aerial platform, it not only allows for clearer transmissions, it extends
communication range.

"The standard ground radio range is roughly 5 to 10 miles, but with Combat Skysat, warfighters can
exchange information over more than 600 miles," Major Bratton said.

In the past, satellites were used to provide the long-range relay ability for ground communiqu?, but
the lines were often clogged with high-priority information and were too slow for the fast-paced
ground environment.

"The satellite bandwidths are always heavily tasked, so Skysat provides a clear channel just for
ground communication," Major Bratton said.

The balloon takes about 20 minutes to launch, but can stay in the air an average of 12 hours per
flight. It is remotely flown from the launch site through ballast and vent controls, much like those
on a hot-air balloon.

Depending on the hostility of the environment, the balloon either can be retrieved for future use or
left behind.

"It was created to be disposable," Major Bratton said. "Since it's basically just a bent pipe
repeater the size of a coffeemaker the entire platform is relatively low-priced."

With the cost of commercial geosynchronous satellites averaging more than $300 million a pop, the
$6,000 skysat makes "low-priced" seem like a slight understatement.

"Yes, it is definitely cost-effective," the major said.

The cost may be low, but the capabilities Skysat provides to the warfighter are extremely valuable.

"Communication is imperative to a special operations team," said 1st Lt. Rodger Jennrich, special
tactics officer with Air Force Special Operations Command. Lieutenant Jennrich is one member of the
JEFX Combat Skysat examination team, and he says what he's seen so far is an outstanding improvement.

"Skysat will offer operators a variety to their communications package, which will allow us to get
information back faster," Lieutenant Jennrich said.

Additionally, ground operators won't have to carry two antennas to achieve long-range contact.

2244. Re: [GPSL] Combat Balloon To Improve Communications

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-01 23:15:34 UTC
From: Harry M
Topic: 2243 Message: 2244

Combat Sky Sat

http://www.agi.com/corporate/mediaCenter/news/combatSkySAT.cfm

---
Harry - KC5TRB

2245. On-Line Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-02 18:58:33 UTC
From: Troy Campbell
Topic: 2112 Message: 2245

Keith Kaiser, WA0TJT, with Near Space Ventures has updated the Google Map interface from version 1.0 of Googles API to version 2.0.

Good things:

1) It works with Internet Explorer >= build 6.0.3000
2) There are signifcant user interface enhancements.
3) In most cases, it's WAY faster than it was.
4) Map size is dynamic. It will use all the space you can give it.

Known Bugs
1) Occasionally, the Google map API will try to do an area-fill using a series of lines when it detects a curve that "doubles back" in direction.
2) The 'drive-too' directions pop-ups don't pre-populate the addresses as they once did.

An altitude-vs-time graph was added and we'll be adding graphs as we have time.

Keith has done a fantastic job on the map interface. We hope the project will be useful.

You can try it out at http://nearspaceventures.com/w3Baltrak/readyget.pl

73 de Troy KC0MIC

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2246. Fwd: [BellevueARC] Kenwood VC-H1 for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-13 04:13:08 UTC
From: Mark Conner
Topic: 2246 Message: 2246
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2247. DoD Experiments With Balloon-Borne Communications Tech

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-16 12:17:10 UTC
From: Ralph Wallio, W0RPK
Topic: 2247 Message: 2247

DoD Experiments With Balloon-Borne Communications Tech

DOW JONES NEWSWIRES , By Rebecca Christie

WASHINGTON (Dow Jones)--Inexpensive balloons may be the next frontier of Pentagon communications technology, if a recent Defense Department test exercise is any indication.

A balloon that costs $7,000 or less can launch in about an hour and relay signals several hundred miles in all directions. In the recent Joint Expeditionary Force Experiment, this translated into coverage from San Francisco Bay to Colorado, officials said.

The balloon technology was developed for oil fields in remote parts of the Gulf Coast but may soon head to the battlefield.

Lt. Gen. Michael Peterson, the Air Force's chief information officer, said Thursday that the balloon system received rave reviews during the event.

"As soon as he heard about this: Go. Buy. Now," Peterson said of one general's reaction. Peterson spoke at an Air Force seminar on Capitol Hill aimed at congressional staffers, reporters and industry officials.

The balloons fly at around 80,000 feet, far above air traffic, weather and even most wind. They are far cheaper to buy and launch than military space satellites, which cost billions of dollars and take years of complicated development.

A single balloon lasts at least four to six hours and is relatively stable once it reaches the upper atmosphere, said Devin Glenn, a Northrop Grumman Corp. (NOC) contractor who worked on the experiment. The balloon systems are made by privately held Space Data Corp., based in Arizona.

The single-channel balloons can't do everything a military satellite can do, said Air Force Col. John Amrine, the event's director of space forces. But they can relay signals over the horizon and provide a steady channel for emergency communications. And they can be ready in a hurry.

"One of the biggest pluses of this capability is that it's responsive. To launch a satellite is still one of the most complex things that we do here on this earth," Amrine said in a recent telephone interview.

The balloons are one of many new technologies that auditioned during this year's JEFX event, Amrine said. The event aims to test new technologies that could be ready for combat within 18 to 24 months. It also gives the U.S. military forces a chance to see how their new equipment works in a group setting.

The balloons are six to seven feet across at ground level, expanding to about 30 feet at high altitudes. The system operates in an area known as "near space" that is one of the Air Force's growing interests.

"It's very, very inexpensive. You can basically break one out of a box and have it ready to launch in about 20 minutes," Glenn said. "If you had it in Iraq, it would cover 80% of the country. If you had it flying over Afghanistan it would cover about 75% of the country."

2248. Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-21 01:31:59 UTC
From: Mike Manes
Topic: 2248 Message: 2248

Congrats, Harry!

Sorry to hear the 2.4 GHz ATV range was limited, but guess that's
about all you can expect from a Part 15 xmtr. Move it down into
the ham band and fit it with 1+W boots and you might have better
range - a long beam and LNA on the ground will help as well.

From time to time, I've had trouble getting cutdown commands off as
well, but only after burst. I'm guessing that PBC spin modulation
is making it look like I'm sending multiples of the same DTMF key.

73 de Mike W5VSI

Harry M wrote:
> ORB-20 was flown today to 63,831 ft and recovered.
>
> The ATV was only visible for the first few thousand
> feet after launch. It flickered a few times on the
> monitor during the flight, but was not copyable.
> It was still operating at the recovery site.
>
> The test of the nichrome cutdown was a success.
> I sent the cut-down command at 60k ft, but no-joy.
> I re-sent the command 3 more times and we had a
> cut-down at just over 63k ft.
>
> We were within a couple hundred yards of the payloads
> at 3k ft and drove right under them. They landed
> behind us on the side of the road in the cloud of
> dust we made, obscuring the landing.
>
> Here is the beacon with the official landing coordinates...
> KC5TRB-11>APT310,WIDE1-1,WIDE3-3:/164453h3602.25N/09527.47WO348/000/A=000580
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com

> Group URL: http://groups.yahoo.com/group/KNSP
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> SPONSORED LINKS
> Ham radio antenna
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+antenna&w1=Ham+radio+antenna&w2=Ham+radio
&w3=Ham+radio+sales&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=102&.sig=eZErPYln1AMxBg6W
lgqsew>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Ham+radio+antenna&w2=Ham+radio&w3=Ham+
radio+sales&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=102&.sig=CtYkvv5jOOfsM1F_iTqEKA>
> Ham radio sales
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+sales&w1=Ham+radio+antenna&w2=Ham+radio&w
3=Ham+radio+sales&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=102&.sig=JIKHBWKYowb6DKepNw
3wKQ>
>
> Ham radio outlet
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+outlet&w1=Ham+radio+antenna&w2=Ham+radio&
w3=Ham+radio+sales&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=102&.sig=SB62vLcbi2BVkffcm
E3REw>
> Ham radio store
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio+store&w1=Ham+radio+antenna&w2=Ham+radio&w
3=Ham+radio+sales&w4=Ham+radio+outlet&w5=Ham+radio+store&c=5&s=102&.sig=JUbv0McvUnLWwhkddg
cQ6Q>
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> YAHOO! GROUPS LINKS
>
> * Visit your group "KNSP <http://groups.yahoo.com/group/KNSP>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> KNSP-unsubscribe@yahoogroups.com
> <mailto:KNSP-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2249. Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-21 17:43:11 UTC
From: Harry M
Topic: 2249 Message: 2249

Hi Mike,

The xmtr was a Part 15 Wavecomm that I modified by removing the 9db
pad and added a 20db HP MMIC amp. I have not had a chance to put
it on an analyser to see what the PO is. The rcvr was also a Wavecom.
I had one that I added an HP MMIC preamp to, but for some reason it
was not working properly and I had to use one that did not have the MMIC.
The rcv antenna was a double cantenna approx 11" x 4" mag mount on
the roof of the Jeep. Not sure what the gain is, but on the analyser the
worst swr was 1.75 at 2450 mhz. The micro-wheel on the payload was
1.9-2.0 vswr at 2435 mhz. I will get the xmtr on an analyser and do some
range testing in the future.

I have witnessed your multiple cut-down command tries. In my case it was
before burst. My son stopped under some high voltage primary feeder lines
on my first two attempts. I didn't notice them at first. I had him drive
down
the road away from them and ran the pwr up from med to high on my mobile
for the last two commands. There is also the possibility that there is
interference
on the channel sometimes. I do issue the command after a beacon from the
balloon
to eliminate that as a source of interference. Hey... It's all MAGIC!!!

73
Harry

The ark was built by amateurs.
The Titanic was built by professionals.

> Congrats, Harry!

2250. Online BallTrak

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-23 13:19:08 UTC
From: PAUL VERHAGE
Topic: 2250 Message: 2250

What is the URL for the online BallTrak program? I couldn't find it with Google.

Thanks,
Paul

2251. RE: [GPSL] Online BallTrak

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-23 13:58:37 UTC
From: Rick von Glahn
Topic: 2250 Message: 2251

It's at:

http://nearspaceventures.com/w3Baltrak/readyget.pl

The Google map interface is really nice.

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of PAUL VERHAGE
> Sent: Tuesday, May 23, 2006 7:19 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Online BallTrak
>
> What is the URL for the online BallTrak program? I couldn't
> find it with Google.
>
> Thanks,
> Paul
>
>
> ------------------------ Yahoo! Groups Sponsor
> ----------------------~--> Get to your groups with one click.
> Know instantly when new email arrives
> http://us.click.yahoo.com/.7bhrC/MGxNAA/yQLSAA/ELTolB/TM
> ---
> -------~->
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> Yahoo! Groups Links
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>
> _____ NOD32 1.1553 (20060522) Information _____
>
> This message was checked by NOD32 antivirus system.
> http://www.eset.com
>
>

2252. Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-24 20:45:55 UTC
From: Mike Manes
Topic: 2249 Message: 2252

Hi Harry,

Well shuckins - seems you really shoulda got a decent ATV sig farther out. Maybe the Wavecom rcvr has a squelch setting that's too high (> P4?). Would be nice to learn how to make 2.4 GHz WBFM ATV work, since 70 cm AM ATV can be a nasty source of EMC - even getting into GPS receivers. WE know it plays havoc with 433 MHz Part 15 wireless!

BTW, what's a "cantenna"? Heathkit used that name for its 1 KW HF dummy load in a 1 gal paint can filled with mineral oil, as I recall from longer ago than I care to think :={.

If you were right under the balloon when you sent your cutdown from from the mobile, the sig mighta been attenuated by the mobile whip pattern which features a deep null off the end. QRM from over your ground-level horizon is always a worry - would be interesting to downlink what your command receiver is hearing on a different band (e.g. a crossband repeater :=}.

73 de Mike W5VSI

Harry M wrote:
> Hi Mike,
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> The xmtr was a Part 15 Wavecomm that I modified by removing the 9db
> pad and added a 20db HP MMIC amp. I have not had a chance to put
> it on an analyser to see what the PO is. The rcvr was also a Wavecom.
> I had one that I added an HP MMIC preamp to, but for some reason it
> was not working properly and I had to use one that did not have the MMIC.
> The rcv antenna was a double cantenna approx 11" x 4" mag mount on
> the roof of the Jeep. Not sure what the gain is, but on the analyser the
> worst swr was 1.75 at 2450 mhz. The micro-wheel on the payload was
> 1.9-2.0 vswr at 2435 mhz. I will get the xmtr on an analyser and do some
> range testing in the future.
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> I have witnessed your multiple cut-down command tries. In my case it was
> before burst. My son stopped under some high voltage primary feeder lines
> on my first two attempts. I didn't notice them at first. I had him drive
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> the road away from them and ran the pwr up from med to high on my mobile
> for the last two commands. There is also the possibility that there is
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> on the channel sometimes. I do issue the command after a beacon from the
> balloon
> to eliminate that as a source of interference. Hey... It's all MAGIC!!!
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> 73
> Harry
>
> ---------------------------------------
> The ark was built by amateurs.
> The Titanic was built by professionals.
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>> Congrats, Harry!
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2253. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 02:26:22 UTC
From: Troy Campbell
Topic: 2249 Message: 2253

Isn't a "cantenna" a microwave antenna made from a pringles can or coffee can?

Troy

BTW, Mike I've still got one of the Heathkit dummy loads of which your speak. Shows my age don't it?

Mike Manes <manes@...> wrote: Hi Harry,

Well shuckins - seems you really shoulda got a decent ATV sig farther
out. Maybe the Wavecom rcvr has a squelch setting that's too high
(> P4?). Would be nice to learn how to make 2.4 GHz WBFM ATV work,
since 70 cm AM ATV can be a nasty source of EMC - even getting into
GPS receivers. WE know it plays havoc with 433 MHz Part 15 wireless!

BTW, what's a "cantenna"? Heathkit used that name for its 1 KW HF
dummy load in a 1 gal paint can filled with mineral oil, as I recall
from longer ago than I care to think :={.

If you were right under the balloon when you sent your cutdown from
from the mobile, the sig mighta been attenuated by the mobile whip
pattern which features a deep null off the end. QRM from over your
ground-level horizon is always a worry - would be interesting to
downlink what your command receiver is hearing on a different band
(e.g. a crossband repeater :=}.

73 de Mike W5VSI

Harry M wrote:
> Hi Mike,
>
> The xmtr was a Part 15 Wavecomm that I modified by removing the 9db
> pad and added a 20db HP MMIC amp. I have not had a chance to put
> it on an analyser to see what the PO is. The rcvr was also a Wavecom.
> I had one that I added an HP MMIC preamp to, but for some reason it
> was not working properly and I had to use one that did not have the MMIC.
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> to eliminate that as a source of interference. Hey... It's all MAGIC!!!
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> 73
> Harry
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>> Congrats, Harry!
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Mike Manes manes@... Tel: 303-979-4899
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2254. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 02:46:34 UTC
From: Keith Kaiser
Topic: 2249 Message: 2254

I have one too and I'm not nearly as old as Troy.... LOL

On 5/24/06, Troy Campbell <kc0mic@...> wrote:
>
> Isn't a "cantenna" a microwave antenna made from a pringles can or coffee
> can?
>
> Troy
>
> BTW, Mike I've still got one of the Heathkit dummy loads of which your
> speak. Shows my age don't it?
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> Mike Manes <manes@...> wrote:
> Hi Harry,
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> Well shuckins - seems you really shoulda got a decent ATV sig farther
> out. Maybe the Wavecom rcvr has a squelch setting that's too high
> (> P4?). Would be nice to learn how to make 2.4 GHz WBFM ATV work,
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> ground-level horizon is always a worry - would be interesting to
> downlink what your command receiver is hearing on a different band
> (e.g. a crossband repeater :=}.
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> 73 de Mike W5VSI
>
> Harry M wrote:
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> Mike Manes manes@... Tel: 303-979-4899
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> Einstein
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> ---------------------------------
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail Beta.
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> YAHOO! GROUPS LINKS
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> Visit your group "GPSL" on the web.
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Keith D Kaiser -- Venturing Roundtable Commissioner
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bsaroundtable.com
kaiserklan.com/wa0tjt
keith.kaiser@...

2255. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 05:41:40 UTC
From: Mike Manes
Topic: 2249 Message: 2255

Hi Troy,

I supervised the electrical construction for the Pringles pilot
production plant in Green Bay WI in '73 ... sonny! :=}

And the Pringles can is just a bit small for efficient 2.4 GHz
waveguide; about all it does is provide a lot of directionality
along with some loss re simple half-wave (2.5") dipole. A coffee
can would work a lot better.

73 de Mike W5VSI

Troy Campbell wrote:
> Isn't a "cantenna" a microwave antenna made from a pringles can or
> coffee can?
>
> Troy
>
> BTW, Mike I've still got one of the Heathkit dummy loads of which your
> speak. Shows my age don't it?
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> */Mike Manes <manes@...>/* wrote:
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> Hi Harry,
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> Well shuckins - seems you really shoulda got a decent ATV sig farther
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> > The Titanic was built by professionals.
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> >> Congrats, Harry!
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> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail Beta.
> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/handraisers>
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> YAHOO! GROUPS LINKS
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> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
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> * To unsubscribe from this group, send an email to:
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> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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2256. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 11:20:04 UTC
From: Troy Campbell
Topic: 2249 Message: 2256

You're absolutely correct. Moreover, the coffee can is easier. The pringles cantennas just had a "cool" factor about them when they were first discribed in 2002.

Pringles:
http://www.binarywolf.com/249/pages/bwpringlescantenna.htm

Coffee can:
http://www.binarywolf.com/249/coffee_can_antenna.htm

Big Soup Can: (best link)
http://www.turnpoint.net/wireless/cantennahowto.html

My favorite for "coolness factor" is a parabolic antenna using an oriental frying basket and a USB 802.11b/g dongle:
http://www.usbwifi.orcon.net.nz/wifi59s.jpg
http://www.usbwifi.orcon.net.nz

Troy

Mike Manes <manes@...> wrote: Hi Troy,

I supervised the electrical construction for the Pringles pilot
production plant in Green Bay WI in '73 ... sonny! :=}

And the Pringles can is just a bit small for efficient 2.4 GHz
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> BTW, what's a "cantenna"? Heathkit used that name for its 1 KW HF
> dummy load in a 1 gal paint can filled with mineral oil, as I recall
> from longer ago than I care to think :={.
>
> If you were right under the balloon when you sent your cutdown from
> from the mobile, the sig mighta been attenuated by the mobile whip
> pattern which features a deep null off the end. QRM from over your
> ground-level horizon is always a worry - would be interesting to
> downlink what your command receiver is hearing on a different band
> (e.g. a crossband repeater :=}.
>
> 73 de Mike W5VSI
>
> Harry M wrote:
> > Hi Mike,
> >
> > The xmtr was a Part 15 Wavecomm that I modified by removing the 9db
> > pad and added a 20db HP MMIC amp. I have not had a chance to put
> > it on an analyser to see what the PO is. The rcvr was also a Wavecom.
> > I had one that I added an HP MMIC preamp to, but for some reason it
> > was not working properly and I had to use one that did not have
> the MMIC.
> > The rcv antenna was a double cantenna approx 11" x 4" mag mount on
> > the roof of the Jeep. Not sure what the gain is, but on the
> analyser the
> > worst swr was 1.75 at 2450 mhz. The micro-wheel on the payload was
> > 1.9-2.0 vswr at 2435 mhz. I will get the xmtr on an analyser and
> do some
> > range testing in the future.
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> > I have witnessed your multiple cut-down command tries. In my case
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> > on my first two attempts. I didn't notice them at first. I had
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> > for the last two commands. There is also the possibility that
> there is
> > interference
> > on the channel sometimes. I do issue the command after a beacon
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> > balloon

> > to eliminate that as a source of interference. Hey... It's all
> MAGIC!!!
> >
> > 73
> > Harry
> >
> > ---------------------------------------
> > The ark was built by amateurs.
> > The Titanic was built by professionals.
> > ---------------------------------------
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> >> Congrats, Harry!
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> > Yahoo! Groups Links
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> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
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> --
> Do you Yahoo!?
> Everyone is raving about the all-new Yahoo! Mail Beta.
> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/handraisers>
>
> --
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com

> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
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How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

2257. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 19:36:38 UTC
From: Harry M
Topic: 2249 Message: 2257

Mike,

As we drove on the recovery I had snow in and out some times
on my camcorder from the ATV. I looked at the video yesterday
and there is one segment of perhaps a second or two of P3-4 picture.
I'll look at it in detail later. My PC blew a hard drive and I've been
reloading from a backup drive. The micro-wheel antenna might not
have been the best choice. Ralph suggested a patch antenna.

Ralph, if you read this, I lost your email about the ATV. If you still have
it
in your sent box would you resend it please.

I shoul have said can-antenna or circular waveguide! Mine is 98mm x 273mm
and is made from 2 juice cans. I have an xls file I got off the web that
campares
several canantenna sizes. I have also built the "optimal" cantenna listed in
the xls,
but have not tried it yet.
http://www.concentrate.com.au/misc/circular_waveguide_optimise.xls
Another good site is...
http://www.turnpoint.net/wireless/has.html#shootout

The antenna antenuation is a good possibility. I used a 5/8 wave instead of
my
normal 1/4 wave mobile antenna and it would have a bigger vertical null.

Hi Troy... I also have one or two of those old dummy loads! :)

73 Harry KC5TRB

2258. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 20:22:42 UTC
From: Troy Campbell
Topic: 2249 Message: 2258

The can-antennas tickled me. I built a couple just for 802.11b/g but never tried it with ATV. I'm a member of the local ATV club (kcatv.org) but no one has ever brought one to the club meetings. They seem pretty stuck on yagii , Though one of the guys has launched several ATV packages using wheel antenna.

On another but similar topic, has anyone tried using turnstiles (crossed dipoles) either on the payload or on the ground ? (I'm curious, but not curious enough to spend a lot of time if it has already been explored and discarded.)

73 de Troy KC0MIC

Harry M <hhm_74115@...> wrote:
Mike,

As we drove on the recovery I had snow in and out some times
on my camcorder from the ATV. I looked at the video yesterday
and there is one segment of perhaps a second or two of P3-4 picture.
I'll look at it in detail later. My PC blew a hard drive and I've been
reloading from a backup drive. The micro-wheel antenna might not
have been the best choice. Ralph suggested a patch antenna.

Ralph, if you read this, I lost your email about the ATV. If you still have
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normal 1/4 wave mobile antenna and it would have a bigger vertical null.

Hi Troy... I also have one or two of those old dummy loads! :)

73 Harry KC5TRB

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2259. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 21:28:18 UTC
From: Mike Manes
Topic: 2249 Message: 2259

Hi Troy,

Thanks for the links. "Better to light a single candle ..."

Besides being a bit small in diameter at 2.4 G, the pringles can has
pretty poor conductivity in the foil lining (discontinuous spiral).

BTW, the general rule of thumb is that a dish should be at least
10 waves in diameter to be effective (has to do with getting a feed
with good illumination) - so that would require a BIG wok - over
4 ft diameter. Try hauling that out to the landing site at XXX MPH!

The uWave guys generally use many-el loop yagis at 2.4 GHz if a 4 ft
wok doesn't show up in the neighbors' yard sales :=}. A corner
reflector made with E-field rods spaced at 1/8 wave max also works
well and doesn't yield as much aerodynamic drag. Also much easier to
build.

Harry said he's using a pair of 3 7/8" diam juice cans stacked, which
oughta work OK as waveguide at 2.4 GHz - but still not much of an
aperture. Adding a horn made from a big metal funnel would help.

73 de Mike W5VSI

Troy Campbell wrote:
> You're absolutely correct. Moreover, the coffee can is easier. The
> pringles cantennas just had a "cool" factor about them when they were
> first discribed in 2002.
>
> Pringles:
> http://www.binarywolf.com/249/pages/bwpringlescantenna.htm
>
> Coffee can:
> http://www.binarywolf.com/249/coffee_can_antenna.htm
>
> Big Soup Can: (best link)
> http://www.turnpoint.net/wireless/cantennahowto.html
>
> My favorite for "coolness factor" is a parabolic antenna using an
> oriental frying basket and a USB 802.11b/g dongle:
> http://www.usbwifi.orcon.net.nz/wifi59s.jpg
> http://www.usbwifi.orcon.net.nz
>
> Troy
>
>
>

> */Mike Manes <manes@...>/* wrote:
>
> Hi Troy,
>
> I supervised the electrical construction for the Pringles pilot
> production plant in Green Bay WI in '73 ... sonny! :=}
>
> And the Pringles can is just a bit small for efficient 2.4 GHz
> waveguide; about all it does is provide a lot of directionality
> along with some loss re simple half-wave (2.5") dipole. A coffee
> can would work a lot better.
>
> 73 de Mike W5VSI
>
>
> Troy Campbell wrote:
> > Isn't a "cantenna" a microwave antenna made from a pringles can or
> > coffee can?
> >
> > Troy
> >
> > BTW, Mike I've still got one of the Heathkit dummy loads of which
> your
> > speak. Shows my age don't it?
> >
> >
> >
> > */Mike Manes <manes@...>/* wrote:
> >
> > Hi Harry,
> >
> > Well shuckins - seems you really shoulda got a decent ATV sig
> farther
> > out. Maybe the Wavecom rcvr has a squelch setting that's too
> high
> > (> P4?). Would be nice to learn how to make 2.4 GHz WBFM ATV
> work,
> > since 70 cm AM ATV can be a nasty source of EMC - even
> getting into
> > GPS receivers. WE know it plays havoc with 433 MHz Part 15
> wireless!
> >
> > BTW, what's a "cantenna"? Heathkit used that name for its 1 KW HF
> > dummy load in a 1 gal paint can filled with mineral oil, as I
> recall
> > from longer ago than I care to think :={.
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> > > The Titanic was built by professionals.
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> > > Yahoo! Groups Links
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> > --
> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more
> so." A.
> > Einstein
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> --
> > Do you Yahoo!?
> > Everyone is raving about the all-new Yahoo! Mail Beta.
> >
> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/handraisers>
>
> >
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> --
> > YAHOO! GROUPS LINKS
> >
> > * Visit your group "GPSL
> <http://groups.yahoo.com/group/GPSL>" on
> > the web.
> >
> > * To unsubscribe from this group, send an email to:
> > GPSL-unsubscribe@yahoogroups.com
> > <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
> >
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> --
> How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call
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>
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>
> SPONSORED LINKS
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+suppl
y&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=Hobby+and+
craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+craft+supply&
w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA>
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> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt

p://voice.yahoo.com>
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>
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> YAHOO! GROUPS LINKS
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
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> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
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> * <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*h
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> your group "
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>GPSL
> <http://groups.yahoo.com/group/GPSL>" on the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2260. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-25 22:41:05 UTC
From: Mike Manes
Topic: 2249 Message: 2260

Hi Harry,

If the "micro-wheel" is the standard 3 half-waves fed in phase and
forming the sides of a "bulgy" equilateral triangle, then it should
work better out to the horizon than a patch, while a patch will give
give a better pattern straight down. The wheel oughta yield about
5 dBd gain at the horizon, and the patch will show a null out thataway,
assuming both occupy a horizontal plane, that is.

Re the snow: Pretty unusual for Wichita in May, huh?? :=} Altho WBFM
will yield better pix while the rcvr IF is in limiting, it goes south
fast once the sig drops outta limiting. So the same received sig
power that yields P1-2 for AM will yield nada for WBFM. But a P3 AM
sig will prolly be P5 with FM.

Re the null from the 2m mobile: if you use a mag mount, you could
try sticking it to the side of the vehicle when the bird's overhead.
We had to do this at the ground station last summer when one of the
balloons came back directly overhead.

73 de Mike W5VSI

Harry M wrote:
> Mike,
>
> As we drove on the recovery I had snow in and out some times
> on my camcorder from the ATV. I looked at the video yesterday
> and there is one segment of perhaps a second or two of P3-4 picture.
> I'll look at it in detail later. My PC blew a hard drive and I've been
> reloading from a backup drive. The micro-wheel antenna might not
> have been the best choice. Ralph suggested a patch antenna.
>
> Ralph, if you read this, I lost your email about the ATV. If you still have
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> in your sent box would you resend it please.
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> I shoul have said can-antenna or circular waveguide! Mine is 98mm x 273mm
> and is made from 2 juice cans. I have an xls file I got off the web that
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> several canantenna sizes. I have also built the "optimal" cantenna listed in
> the xls,
> but have not tried it yet.
> http://www.concentrate.com.au/misc/circular_waveguide_optimise.xls
> Another good site is...
> http://www.turnpoint.net/wireless/has.html#shootout
>

> The antenna antenuation is a good possibility. I used a 5/8 wave instead of
> my
> normal 1/4 wave mobile antenna and it would have a bigger vertical null.
>
> Hi Troy... I also have one or two of those old dummy loads! :)
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> 73 Harry KC5TRB
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> Yahoo! Groups Links
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2261. Re: [GPSL] Re: [EOSS] Re: [KNSP] ORB-20 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-26 03:19:27 UTC
From: Harry M
Topic: 2249 Message: 2261

I have a pic of the micro-wheel on the ORB Yahoo Groups FILE area.
I used the same fomulation you'd use for a big/little wheel.

WICTHITA?????
Is that in the US?
Is it just north of TULSA! :)

I wanted to see the difference in signal strength of the cw beacon on the
ground using the 5/8 wave over my 1/4 wave this time, but when your
right on with the prediction you don't have an oportunity to do that. Like
Rick (N0KKZ said, I almost got the Redneck balloonning award...
The "recovered in the bed of my pickup" award.

Chow Amigo!
73 Harrry

2262. Possibility of APRS on Clusterballoon this Sunday morning

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-28 04:09:56 UTC
From: wb8elk@aol.com
Topic: 2262 Message: 2262

There is a chance I can put an APRS tracker on the Cluster Balloon fellow when he flies out of the Alabama Jubilee hot air balloon festival Sunday morning around 1200z.

WB8ELK-12 on 144.39 (every minute)

http://www.clusterballoon.org (http://www.clusterballoon.org)

This Saturday, members of the UAH balloonsat club were out in force to help him inflate his 72 large party balloons (28 tanks of helium) and we were halfway finished when lightning started to crash all around and we were suddenly drenched by torrential rains and hail from a pop-up thunderstorm. He will try again this Sunday morning at 7:00 am CDT.

Decatur, AL - Point Mallard Park

2263. WB8ELK-12 Cluster Balloon APRS has flown but had bad antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-28 16:07:46 UTC
From: wb8elk@aol.com
Topic: 2263 Message: 2263

I attended the launch of the Cluster Balloon this morning and he agreed to fly my APRS payload attached to his water ballast containers.

Over a dozen UAH students from the Balloon Club helped inflate the balloons in teams from 28 tanks of helium. The UAH students also chased and helped deflate the balloons...he reuses the larger balloons (the 8 foot advertising balloons).

It was a perfect launch around 7 am with his amazing cluster balloon system consisting of 72 large party and advertising style balloons.

The flight lasted about an hour and he landed gently in front of us in a field next to I-565 at the Mooresville road exit a few miles northeast of Decatur, AL. He has such fine control of his balloon system that he flew across the interstate just 40 feet up.

I even got to do a tethered ride ... amazingly smooth ride and very comfortable...I'm going to rush out to Walmart and get a lawn chair and a bag of party balloons now...I'm hooked !!!

Unfortunately, we lost signal on the APRS payload very shortly after launch....When I put it into my car I surprised to see that it was apparently working just fine.....I opened the payload up and finally figured out the problem....I had to use a small antenna so as to not poke into his ballast bags, so I grabbed an MFJ-1716S dual-band antenna I had in my car. Upon close inspection, the center pin on this particular antenna is recessed pretty far inside the threading and does not make contact when screwed onto my Alinco DJ-C7 since the C7 has a raised ridge around the antenna connector....so essentially I flew without an antenna attached <sigh>.

Hopefully some other balloon group can piggyback a tracker with him during one of his next shows this year:

http://www.clusterballoon.org (http://www.clusterballoon.org)

73s de Bill WB8ELK

2264. Life in Near Space

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-30 14:59:46 UTC
From: PAUL VERHAGE
Topic: 2264 Message: 2264
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2265. Re: [GPSL] Life in Near Space

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-30 18:04:59 UTC
From: rahammond@charter.net
Topic: 2264 Message: 2265

I recall seeing a documentary...er film many years ago about The Blob.
Could be a descendant?

Rog KC0MWM

---- PAUL VERHAGE <paul.verhage@...> wrote:
> My camera took a picture of some strange organism trying to attach the
> near spacecraft. I think I'll look for funding to study this event.
>
> Paul

2266. Re: [GPSL] Life in Near Space

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-30 19:44:34 UTC
From: PAUL VERHAGE
Topic: 2264 Message: 2266

I think you're onto something.

Paul

>>> rahammond@... 5/30/2006 12:04:59 pm >>>
I recall seeing a documentary...er film many years ago about The Blob.
Could be a descendant?

Rog KC0MWM

---- PAUL VERHAGE <paul.verhage@...> wrote:
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Yahoo! Groups Links

2267. Re: [GPSL] Life in Near Space

Yahoo group: GPSL (2002 — 2008)
Date: 2006-05-30 22:37:32 UTC
From: Mike Manes
Topic: 2264 Message: 2267

Hi Paul,

Gosh, that looks like the Dreaded Fouloglopolus (shardia latexius)!
Infection symptoms range from minor topical contamination to full-
blown parachute inversion; may also be accompanied by PBC.

There is no cure, but I plan to present a D.F. repellant scheme at
GPSL this summer.

73 de Mike W5VSI, EOSS

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> near spacecraft. I think I'll look for funding to study this event.
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2268. Let's be careful out there, folks!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-03 20:02:01 UTC
From: Mike Manes
Topic: 2268 Message: 2268

Following clip from ARRL Letter V25 #22 of 6/2/06:

73 de Mike W5VSI

==>TWO RADIO AMATEURS DIE DURING MOBILE HIDDEN TRANSMITTER HUNT

Two ARRL members from California are dead after the vehicle in which they were riding during a mobile hidden transmitter hunt May 27 went over a cliff in rugged terrain near Lake Isabella in Kern County. They were identified as Michael G. Obermeier, K6SNE, of Anaheim, and David A. Gordon-Ross, N6IDF, of Yucaipa. Obermeier, an ARRL Official Observer in Orange County, was 46. Gordon-Ross was 35.

"Mike and Dave were some of the best T-hunters in the biz," said Scott Press, N6SAP, calling both "true assets to this hobby." In his role as an OO, Obermeier reportedly had participated in the infamous Jack Gerritsen radio jamming case in the Los Angeles area.

According to media accounts, a Kern County Sheriff's Department search-and-rescue team located the victims early Monday, May 29. Obermeier was driving the 1991 4-wheel-drive Jeep Cherokee that apparently went out of control on Cook Peak Road while the pair was proceeding to the next hidden transmitter site. After caroming off a rock wall, the vehicle crossed the road and plunged down a 900-foot cliff. They were reported missing after failing to check in with T-hunt organizers.

Greg Pitta, KF6DBJ, reports Obermeier and Gordon-Ross were on a half-day multiple-transmitter T-hunt. "Both K6SNE and N6IDF were expert transmitter hunters, each with hundreds of hunts completed, ranking with top scores in most," he said.

ARRL Amateur Radio Direction Finding (ARDF) Coordinator Joe Moell, K0OV, knew both men. He notes that Obermeier had suffered a sports-related spinal cord injury that left him a paraplegic. "He did all the adaptive work on his vehicles, of which he had quite a few that he used over time for RDF," Moell said. Despite his physical limitations, Obermeier also enjoyed foxhunting from his wheel chair.

Moell says Gordon-Ross had been a proficient mobile T-hunter for many years. He took a brief hiatus after his first child was born in April 2005 (his wife, Melanie, is KF6GWV), but he recently became active again.

According to Moell, the mobile transmitter hunts take place on the fourth Saturday of each month on 2-meter FM simplex, starting out from a hilltop in Rancho Palos Verdes. He says it's not uncommon for the main hidden transmitter to be hundreds of miles away--175 highway miles in this instance.

The 147.435 Amateur Radio Repeater System is collecting donations to help Melanie Gordon-Ross, a stay-at-home mom. It also will donate all proceeds from its 16th annual 435 Chili Cook-off June 10. Visit the 147.435 Web site <http://www.435online.com> for additional information.

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Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

2269. Bizarre helium balloon incident

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-04 19:26:29 UTC
From: wb8elk@aol.com
Topic: 2269 Message: 2269

Apparently two students pulled down an 8-foot advertising balloon in an arena and were found dead INSIDE it....how they managed to do that is beyond me.

http://www.cnn.com/2006/US/06/04/balloon.deaths.ap/index.html (http://www.cnn.com/2006/US/06/04/balloon.deaths.ap/index.html)

2270. Re: [GPSL] Bizarre helium balloon incident

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-05 02:01:14 UTC
From: Mike Manes
Topic: 2269 Message: 2270

Darwinian ballooning ... I'd rather deal with Murphy!

73 de Mike W5VSI

wb8elk@... wrote:
> Apparently two students pulled down an 8-foot advertising balloon in an
> arena and were found dead INSIDE it....how they managed to do that is
> beyond me.
>
> http://www.cnn.com/2006/US/06/04/balloon.deaths.ap/index.html
>
>
> SPONSORED LINKS
> Craft hobby
> <http://groups.yahoo.com/gads?t=ms&k=Craft+hobby&w1=Craft+hobby&w2=Hobby+and+craft+suppl
y&w3=Ham+radio&c=3&s=60&.sig=YqiuyVwjnQFdynnsmMwVWg>
> Hobby and craft supply
> <http://groups.yahoo.com/gads?t=ms&k=Hobby+and+craft+supply&w1=Craft+hobby&w2=Hobby+and+
craft+supply&w3=Ham+radio&c=3&s=60&.sig=VduRJqNqUo9QkUiTI-knAA>
> Ham radio
> <http://groups.yahoo.com/gads?t=ms&k=Ham+radio&w1=Craft+hobby&w2=Hobby+and+craft+supply&
w3=Ham+radio&c=3&s=60&.sig=sl_TRqZTiP_WHSLe6P3ybA>
>
>
>
> ~---~
> YAHOO! GROUPS LINKS
>
> * Visit your group "GPSL <http://groups.yahoo.com/group/GPSL>" on
> the web.
>
> * To unsubscribe from this group, send an email to:
> GPSL-unsubscribe@yahoogroups.com
> <mailto:GPSL-unsubscribe@yahoogroups.com?subject=Unsubscribe>
>
> * Your use of Yahoo! Groups is subject to the Yahoo! Terms of
> Service <http://docs.yahoo.com/info/terms/>.
>
>
> ~---~
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2271. Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 02:15:12 UTC
From: Zack Clobes
Topic: 2271 Message: 2271

The Grand Prairie Hotel and Convention Center called me this afternoon asking if they could release some of the rooms that they have reserved for GPSL. We have 30 rooms reserved, but only approx 5 rooms have been taken.

If you are considering staying at the hotel for the GPSL, I would recommend that you make your reservations very soon, as they will probably start releasing them in the next week or two.

The hotel's website is http://www.grandprairiehotel.com/ You can call toll-free at 1-866-KS-SPLASH.

We have a group rate of $74 a night (plus taxes) which is in the same building as the symposium, has an indoor water park, and nice restaurant.

Zack

2272. RE: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 04:33:01 UTC
From: Marty Griffin
Topic: 2271 Message: 2272

Hi Zack,
Just for your information, folks who are arriving 8/3 can not get rooms until 8/4. The GPSL block of rooms starts 8/4. If you could ping the hotel management and add 8/3 onto the block, you might get more success. Of course, that's from the perspective of folks traveling 500+ miles:>)
Good luck,
- Marty, WA0GEH, EOSS

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Monday, June 05, 2006 8:15 PM
To: Group GPSL; Group Project: Traveler; Group KNSP; Group EOSS
Subject: [GPSL] Hotel Rooms for GPSL

The Grand Prairie Hotel and Convention Center called me this afternoon asking if they could release some of the rooms that they have reserved for GPSL. We have 30 rooms reserved, but only approx 5 rooms have been taken.

If you are considering staying at the hotel for the GPSL, I would recommend that you make your reservations very soon, as they will probably start releasing them in the next week or two.

The hotel's website is http://www.grandprairiehotel.com/ You can call toll-free at 1-866-KS-SPLASH.

We have a group rate of $74 a night (plus taxes) which is in the same building as the symposium, has an indoor water park, and nice restaurant.

Zack

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http://us.click.yahoo.com/97bhrC/LGxNAA/yQLSAA/ELTolB/TM
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Yahoo! Groups Links

2273. ARHAB flights in 2005 (113)

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 12:54:49 UTC
From: Ralph Wallio, W0RPK
Topic: 2273 Message: 2273

001] 12Jan05 ANSR-22 AZ
002] 29Jan05 SUNTRACKER-XIII IN Wayne State Univ
003] 19Feb05 HARPO-2 GA
004] 26Feb05 PAMPERO ARGENTINA
005] 26Feb05 HABS-7 KS Univ of Kansas
006] 26Feb05 NSTAR-05A IA
007] 26Feb05 EOSS-87 CO
008] 02Apr05 CNS-002 KS
009] 03Apr05 STRATOSFEAR AL Univ of Alabama-Huntsville
010] 08Apr05 ANSR-23 AZ
011] 09Apr05 WV-2 WV
012] 09Apr05 GRC POST 632 OH
013] 09Apr05 UAH TEAM 3MALL AL Univ of Alabama-Huntsville
014] 09Apr05 UAH TEAM KISS AL Univ of Alabama-Huntsville
015] 09Apr05 UAH TEAM BURNOUT AL Univ of Alabama-Huntsville
016] 16Apr05 EOSS-88 CO
017] 16Apr05 EOSS-89 CO
018] 16Apr05 ORB-16 OK
019] 16Apr05 WVU WV West Virginia Univ
020] 16Apr05 SUNTRACKER-XIV OH Wayne State Univ
021] 16Apr05 RFS-19 TX
022] 30Apr05 EOSS-90 CO
023] 30Apr05 ANSR-24 AZ
024] 30Apr05 NSC ID Northwest Nazarene Univ
025] 07May05 NSTAR-05B NE
026] 07May05 BALL ZERO AL
027] 08May05 RIT NY Rochester Institute of Technology
028] 14May05 UX-1 TN Univ of Tennessee
029] 15May05 TRAVELER-13 KS
030] 21May05 ORB-17 OK
031] 24May05 ACES-02 TX Louisiana State Univ
032] 24May05 ACES-03 TX Louisiana State Univ
033] 26May05 CAPSAT-05B NH Timberlane Regional High School
034] 29May05 FITS2005 WA
035] 30May05 NSTAR-05C NE
036] 04Jun05 UX-2 TN Univ of Tennessee
037] 11Jun05 EOSS-91 CO
038] 18Jun05 TIGERCUB-1 SC Clemson Univ
039] 18Jun05 ASTRORADIO FRANCE
040] 19Jun05 SD-8 MI Gross Pointe Academy
041] 25Jun05 KUBEsat KS Univ of Kansas
042] 02Jul05 GPSL2005-CNS003A IA
043] 02Jul05 GPSL2005-EOSS92 IA
044] 02Jul05 GPSL2005-SKYLAB IA
045] 02Jul05 GPSL2005-MECSAT IA Medgar Evers College

046] 02Jul05 GPSL2005-NSTAR05D IA
047] 02Jul05 GPSL2005-ORB18 IA
048] 02Jul05 GPSL2005-TAYLOR U IA Taylor Univ
049] 02Jul05 GPSL2005-TRAVELER IA
050] 02Jul05 GPSL2005-WB8ELK IA
051] 07Jul05 GPS SD-9 MI Gross Pointe Academy
052] 11Jul05 HABET-L92 IA Iowa State Univ
053] 14Jul05 HABET-L93 IA Iowa State Univ
054] 16Jul05 EOSS-93 CO
055] 16Jul05 EOSS-94 CO
056] 16Jul05 EOSS-95 CO
057] 16Jul05 EOS-1 ME
058] 16Jul05 OZ-5/WB8ELK AL Univ of Alabama-Huntsville
059] 21Jul05 HABET-L94 IA Iowa State Univ
060] 23Jul05 VWS-2 VA
061] 23Jul05 BALLOONSAT-2005 IA Univ of Nebraska-Omaha
062] 23Jul05 CNS-004 KS
063] 30Jul05 EOSS-96 CO
064] 30Jul05 EOSS-97 CO
065] 31Jul05 SKYLAB KS
066] 06Aug05 802TEST TN
067] 06Aug05 ARSAT-2005C TX Texas Tech Univ
068] 06Aug05 TAYLOR IN Taylor Univ
069] 14Aug05 TVNSP-05A OR
070] 20Aug05 BLT-21 TX
071] 20Aug05 NTBP-12 TX
072] 27Aug05 CNNSP-03 NE
073] 28Aug05 SKYLAB KS
074] 03Sep05 ANSR-25 AZ
075] 03Sep05 NTBP-14 TX
076] 03Sep05 HIBALL-4 AL
077] 03Sep05 HABET-L95 IA Iowa State Univ
078] 09Sep05 HABET-L88 IA Iowa State Univ
079] 10Sep05 HABET-L89 IA Iowa State Univ
080] 10Sep05 ARSAT-2005D TX Texas Tech Univ
081] 10Sep05 SKYLAB KS
082] 10Sep05 UND 2005-1 ND Univ of North Dakota
083] 11Sep05 HABET-L90 IA Iowa State Univ
084] 11Sep05 HABET-L91 IA Iowa State Univ
085] 11Sep05 BFH2005 HOLLAND
086] 17Sep05 TVNSP-05B ID
087] 24Sep05 MDSG NS-5 MD Maryland Space Grant
088] 01Oct05 TRAVELER-05C KS
089] 01Oct05 CNS-005 MO
090] 08Oct05 ORB-19 OK
091] 08Oct05 ANSR-26 AZ
092] 15Oct05 CINELSAT-3 PORTUGAL
093] 22Oct05 UX-3 TN Univ of Tennessee
094] 22Oct05 EOSS-98 CO
095] 22Oct05 EOSS-99 CO

096] 26Oct05 HABET-L70 IA Iowa State Univ
097] 29Oct05 GRC POST 632 OH
098] 05Nov05 CNNSP-04 NE
099] 05Nov05 ASTRO-3 OK Oklahoma State Univ
100] 05Nov05 UAH HALO AL Univ of Alabama-Huntsville
101] 12Nov05 EOSS-100 CO
102] 19Nov05 ASTRO-4 OK Oklahoma State Univ
103] 19Nov05 ANSR-27 AZ
104] 19Nov05 CNS-007 MO
105] 20Nov05 NSTAR-05E IA
106] 20Nov05 CIBE-LF1 IA
107] 10Dec05 ASTRO-5 OK Oklahoma State Univ
108] 10Dec05 NNU ID Northwest Nazarene Univ
109] 10Dec05 UX-4 TN Univ of Tennessee
110] 17Dec05 HIBALL-6 AL
111] 27Dec05 HIBALL-7 AL
112] 30Dec05 ANSR-28 AZ
113] 31Dec05 UX-5 TN Univ of Tennessee

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2274. Re: RE: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 13:56:32 UTC
From: mconner1@gmail.com
Topic: 2271 Message: 2274
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2275. Re: [GPSL] ARHAB flights in 2005 (113)

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 16:10:08 UTC
From: mconner1@gmail.com
Topic: 2273 Message: 2275
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2276. Re: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 16:54:37 UTC
From: wb8elk@aol.com
Topic: 2271 Message: 2276

I booked my room this morning....they charged me $99 for Aug.3rd but the special rate of $74 for the rest of the stay.

- Bill WB8ELK

2277. rooms at the Grand Prairie

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 17:02:37 UTC
From: Chris Krengel
Topic: 2277 Message: 2277

For those of you that were not able to get a room for the 3rd of Aug. I
just called the Grand Prairie and got a room for all three nights.
maybe they were just not sure that the room would not be needed so I
think if you tryed to get a room earlier and couldn't you may want too
try again asap!!
Chris
KB0YRZ

2278. Re: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 18:48:20 UTC
From: Zack Clobes
Topic: 2271 Message: 2278

Thanks for the information. This was simply an over site, and I'm
working to get this resolved as quickly as possible.

Zack

Marty Griffin wrote:
>
> Hi Zack,
> Just for your information, folks who are arriving 8/3 can not get rooms
> until 8/4. The GPSL block of rooms starts 8/4. If you could ping the hotel
> management and add 8/3 onto the block, you might get more success. Of
> course, that's from the perspective of folks traveling 500+ miles:>)
> Good luck,
> - Marty, WA0GEH, EOSS
>
> -----Original Message-----
> From: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] On
> Behalf Of Zack
> Clobes
> Sent: Monday, June 05, 2006 8:15 PM
> To: Group GPSL; Group Project: Traveler; Group KNSP; Group EOSS
> Subject: [GPSL] Hotel Rooms for GPSL
>
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> asking if they could release some of the rooms that they have reserved for
> GPSL. We have 30 rooms reserved, but only approx 5 rooms have been taken.
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> that you make your reservations very soon, as they will probably start
> releasing them in the next week or two.
>
> The hotel's website is http://www.grandprairiehotel.com/
> <http://www.grandprairiehotel.com/> You can call
> toll-free at 1-866-KS-SPLASH.
>
> We have a group rate of $74 a night (plus taxes) which is in the same
> building as the symposium, has an indoor water park, and nice restaurant.
>
> Zack
>
>
> Yahoo! Groups Links
>

>

2279. Re: [GPSL] ARHAB flights in 2005 (113)

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 21:16:18 UTC
From: John C Nordlie
Topic: 2273 Message: 2279

Very cool Ralph, thanks! Must be serendipity: we just received parts
of our lost Sept. 10 payload back today.

==
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
http://blizzard.rwic.und.edu/~nordlie/
==

On Tue, 6 Jun 2006, Ralph Wallio, W0RPK wrote:

> 001] 12Jan05 ANSR-22 AZ
> 002] 29Jan05 SUNTRACKER-XIII IN Wayne State Univ
> 003] 19Feb05 HARPO-2 GA
> 004] 26Feb05 PAMPERO ARGENTINA
> 005] 26Feb05 HABS-7 KS Univ of Kansas
> 006] 26Feb05 NSTAR-05A IA
> 007] 26Feb05 EOSS-87 CO
> 008] 02Apr05 CNS-002 KS
> 009] 03Apr05 STRATOSFEAR AL Univ of Alabama-Huntsville
> 010] 08Apr05 ANSR-23 AZ
> 011] 09Apr05 WV-2 WV
> 012] 09Apr05 GRC POST 632 OH
> 013] 09Apr05 UAH TEAM 3MALL AL Univ of Alabama-Huntsville
> 014] 09Apr05 UAH TEAM KISS AL Univ of Alabama-Huntsville
> 015] 09Apr05 UAH TEAM BURNOUT AL Univ of Alabama-Huntsville
> 016] 16Apr05 EOSS-88 CO
> 017] 16Apr05 EOSS-89 CO
> 018] 16Apr05 ORB-16 OK
> 019] 16Apr05 WVU WV West Virginia Univ
> 020] 16Apr05 SUNTRACKER-XIV OH Wayne State Univ
> 021] 16Apr05 RFS-19 TX
> 022] 30Apr05 EOSS-90 CO
> 023] 30Apr05 ANSR-24 AZ
> 024] 30Apr05 NSC ID Northwest Nazarene Univ
> 025] 07May05 NSTAR-05B NE
> 026] 07May05 BALL ZERO AL
> 027] 08May05 RIT NY Rochester Institute of Technology
> 028] 14May05 UX-1 TN Univ of Tennessee
> 029] 15May05 TRAVELER-13 KS
> 030] 21May05 ORB-17 OK
> 031] 24May05 ACES-02 TX Louisiana State Univ
> 032] 24May05 ACES-03 TX Louisiana State Univ
> 033] 26May05 CAPSAT-05B NH Timberlane Regional High School
> 034] 29May05 FITS2005 WA
> 035] 30May05 NSTAR-05C NE

> 036] 04Jun05 UX-2 TN Univ of Tennessee
> 037] 11Jun05 EOSS-91 CO
> 038] 18Jun05 TIGERCUB-1 SC Clemson Univ
> 039] 18Jun05 ASTRORADIO FRANCE
> 040] 19Jun05 SD-8 MI Gross Pointe Academy
> 041] 25Jun05 KUBEsat KS Univ of Kansas
> 042] 02Jul05 GPSL2005-CNS003A IA
> 043] 02Jul05 GPSL2005-EOSS92 IA
> 044] 02Jul05 GPSL2005-SKYLAB IA
> 045] 02Jul05 GPSL2005-MECSAT IA Medgar Evers College
> 046] 02Jul05 GPSL2005-NSTAR05D IA
> 047] 02Jul05 GPSL2005-ORB18 IA
> 048] 02Jul05 GPSL2005-TAYLOR U IA Taylor Univ
> 049] 02Jul05 GPSL2005-TRAVELER IA
> 050] 02Jul05 GPSL2005-WB8ELK IA
> 051] 07Jul05 GPS SD-9 MI Gross Pointe Academy
> 052] 11Jul05 HABET-L92 IA Iowa State Univ
> 053] 14Jul05 HABET-L93 IA Iowa State Univ
> 054] 16Jul05 EOSS-93 CO
> 055] 16Jul05 EOSS-94 CO
> 056] 16Jul05 EOSS-95 CO
> 057] 16Jul05 EOS-1 ME
> 058] 16Jul05 OZ-5/WB8ELK AL Univ of Alabama-Huntsville
> 059] 21Jul05 HABET-L94 IA Iowa State Univ
> 060] 23Jul05 VWS-2 VA
> 061] 23Jul05 BALLOONSAT-2005 IA Univ of Nebraska-Omaha
> 062] 23Jul05 CNS-004 KS
> 063] 30Jul05 EOSS-96 CO
> 064] 30Jul05 EOSS-97 CO
> 065] 31Jul05 SKYLAB KS
> 066] 06Aug05 802TEST TN
> 067] 06Aug05 ARSAT-2005C TX Texas Tech Univ
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> 069] 14Aug05 TVNSP-05A OR
> 070] 20Aug05 BLT-21 TX
> 071] 20Aug05 NTBP-12 TX
> 072] 27Aug05 CNNSP-03 NE
> 073] 28Aug05 SKYLAB KS
> 074] 03Sep05 ANSR-25 AZ
> 075] 03Sep05 NTBP-14 TX
> 076] 03Sep05 HIBALL-4 AL
> 077] 03Sep05 HABET-L95 IA Iowa State Univ
> 078] 09Sep05 HABET-L88 IA Iowa State Univ
> 079] 10Sep05 HABET-L89 IA Iowa State Univ
> 080] 10Sep05 ARSAT-2005D TX Texas Tech Univ
> 081] 10Sep05 SKYLAB KS
> 082] 10Sep05 UND 2005-1 ND Univ of North Dakota
> 083] 11Sep05 HABET-L90 IA Iowa State Univ
> 084] 11Sep05 HABET-L91 IA Iowa State Univ
> 085] 11Sep05 BFH2005 HOLLAND

> 086] 17Sep05 TVNSP-05B ID
> 087] 24Sep05 MDSG NS-5 MD Maryland Space Grant
> 088] 01Oct05 TRAVELER-05C KS
> 089] 01Oct05 CNS-005 MO
> 090] 08Oct05 ORB-19 OK
> 091] 08Oct05 ANSR-26 AZ
> 092] 15Oct05 CINELSAT-3 PORTUGAL
> 093] 22Oct05 UX-3 TN Univ of Tennessee
> 094] 22Oct05 EOSS-98 CO
> 095] 22Oct05 EOSS-99 CO
> 096] 26Oct05 HABET-L70 IA Iowa State Univ
> 097] 29Oct05 GRC POST 632 OH
> 098] 05Nov05 CNNSP-04 NE
> 099] 05Nov05 ASTRO-3 OK Oklahoma State Univ
> 100] 05Nov05 UAH HALO AL Univ of Alabama-Huntsville
> 101] 12Nov05 EOSS-100 CO
> 102] 19Nov05 ASTRO-4 OK Oklahoma State Univ
> 103] 19Nov05 ANSR-27 AZ
> 104] 19Nov05 CNS-007 MO
> 105] 20Nov05 NSTAR-05E IA
> 106] 20Nov05 CIBE-LF1 IA
> 107] 10Dec05 ASTRO-5 OK Oklahoma State Univ
> 108] 10Dec05 NNU ID Northwest Nazarene Univ
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> 110] 17Dec05 HIBALL-6 AL
> 111] 27Dec05 HIBALL-7 AL
> 112] 30Dec05 ANSR-28 AZ
> 113] 31Dec05 UX-5 TN Univ of Tennessee
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@netINS.net
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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2280. Re: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 21:28:30 UTC
From: Harry M
Topic: 2271 Message: 2280

The Hotel is very non-consistent with their rates.
I booked mine last month for the 3rd though the 6th
and the rate was $79 per nite. I wonder what it will
be at check-in?

I think an explanation from the Hotel manager or
Corporate is in order!

73 Harry KC5TRB

2281. Re: ARHAB flights in 2005 (113)

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-06 20:14:13 UTC
From: Mike Manes
Topic: 2273 Message: 2281

Hey, thanks, Ralph! Wow ... this balloonacy has become epidemic!!
And I guess these are just the flights that came to your attention.
I know that several colleges don't post their announcements, e.g.,
Mt State and SD Sch Mines. So the term "at least" is fitting, right?

73 de Mike W5VSI

Ralph Wallio, W0RPK wrote:
> 001] 12Jan05 ANSR-22 AZ
> 002] 29Jan05 SUNTRACKER-XIII IN Wayne State Univ
> 003] 19Feb05 HARPO-2 GA
> 004] 26Feb05 PAMPERO ARGENTINA
> 005] 26Feb05 HABS-7 KS Univ of Kansas
> 006] 26Feb05 NSTAR-05A IA
> 007] 26Feb05 EOSS-87 CO
> 008] 02Apr05 CNS-002 KS
> 009] 03Apr05 STRATOSFEAR AL Univ of Alabama-Huntsville
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> 016] 16Apr05 EOSS-88 CO
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> 018] 16Apr05 ORB-16 OK
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> 021] 16Apr05 RFS-19 TX
> 022] 30Apr05 EOSS-90 CO
> 023] 30Apr05 ANSR-24 AZ
> 024] 30Apr05 NSC ID Northwest Nazarene Univ
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> 026] 07May05 BALL ZERO AL
> 027] 08May05 RIT NY Rochester Institute of Technology
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> 030] 21May05 ORB-17 OK
> 031] 24May05 ACES-02 TX Louisiana State Univ
> 032] 24May05 ACES-03 TX Louisiana State Univ
> 033] 26May05 CAPSAT-05B NH Timberlane Regional High School
> 034] 29May05 FITS2005 WA
> 035] 30May05 NSTAR-05C NE
> 036] 04Jun05 UX-2 TN Univ of Tennessee
> 037] 11Jun05 EOSS-91 CO

> 038] 18Jun05 TIGERCUB-1 SC Clemson Univ
> 039] 18Jun05 ASTRORADIO FRANCE
> 040] 19Jun05 SD-8 MI Gross Pointe Academy
> 041] 25Jun05 KUBEsat KS Univ of Kansas
> 042] 02Jul05 GPSL2005-CNS003A IA
> 043] 02Jul05 GPSL2005-EOSS92 IA
> 044] 02Jul05 GPSL2005-SKYLAB IA
> 045] 02Jul05 GPSL2005-MECSAT IA Medgar Evers College
> 046] 02Jul05 GPSL2005-NSTAR05D IA
> 047] 02Jul05 GPSL2005-ORB18 IA
> 048] 02Jul05 GPSL2005-TAYLOR U IA Taylor Univ
> 049] 02Jul05 GPSL2005-TRAVELER IA
> 050] 02Jul05 GPSL2005-WB8ELK IA
> 051] 07Jul05 GPS SD-9 MI Gross Pointe Academy
> 052] 11Jul05 HABET-L92 IA Iowa State Univ
> 053] 14Jul05 HABET-L93 IA Iowa State Univ
> 054] 16Jul05 EOSS-93 CO
> 055] 16Jul05 EOSS-94 CO
> 056] 16Jul05 EOSS-95 CO
> 057] 16Jul05 EOS-1 ME
> 058] 16Jul05 OZ-5/WB8ELK AL Univ of Alabama-Huntsville
> 059] 21Jul05 HABET-L94 IA Iowa State Univ
> 060] 23Jul05 VWS-2 VA
> 061] 23Jul05 BALLOONSAT-2005 IA Univ of Nebraska-Omaha
> 062] 23Jul05 CNS-004 KS
> 063] 30Jul05 EOSS-96 CO
> 064] 30Jul05 EOSS-97 CO
> 065] 31Jul05 SKYLAB KS
> 066] 06Aug05 802TEST TN
> 067] 06Aug05 ARSAT-2005C TX Texas Tech Univ
> 068] 06Aug05 TAYLOR IN Taylor Univ
> 069] 14Aug05 TVNSP-05A OR
> 070] 20Aug05 BLT-21 TX
> 071] 20Aug05 NTBP-12 TX
> 072] 27Aug05 CNNSP-03 NE
> 073] 28Aug05 SKYLAB KS
> 074] 03Sep05 ANSR-25 AZ
> 075] 03Sep05 NTBP-14 TX
> 076] 03Sep05 HIBALL-4 AL
> 077] 03Sep05 HABET-L95 IA Iowa State Univ
> 078] 09Sep05 HABET-L88 IA Iowa State Univ
> 079] 10Sep05 HABET-L89 IA Iowa State Univ
> 080] 10Sep05 ARSAT-2005D TX Texas Tech Univ
> 081] 10Sep05 SKYLAB KS
> 082] 10Sep05 UND 2005-1 ND Univ of North Dakota
> 083] 11Sep05 HABET-L90 IA Iowa State Univ
> 084] 11Sep05 HABET-L91 IA Iowa State Univ
> 085] 11Sep05 BFH2005 HOLLAND
> 086] 17Sep05 TVNSP-05B ID
> 087] 24Sep05 MDSG NS-5 MD Maryland Space Grant

> 088] 01Oct05 TRAVELER-05C KS
> 089] 01Oct05 CNS-005 MO
> 090] 08Oct05 ORB-19 OK
> 091] 08Oct05 ANSR-26 AZ
> 092] 15Oct05 CINELSAT-3 PORTUGAL
> 093] 22Oct05 UX-3 TN Univ of Tennessee
> 094] 22Oct05 EOSS-98 CO
> 095] 22Oct05 EOSS-99 CO
> 096] 26Oct05 HABET-L70 IA Iowa State Univ
> 097] 29Oct05 GRC POST 632 OH
> 098] 05Nov05 CNNSP-04 NE
> 099] 05Nov05 ASTRO-3 OK Oklahoma State Univ
> 100] 05Nov05 UAH HALO AL Univ of Alabama-Huntsville
> 101] 12Nov05 EOSS-100 CO
> 102] 19Nov05 ASTRO-4 OK Oklahoma State Univ
> 103] 19Nov05 ANSR-27 AZ
> 104] 19Nov05 CNS-007 MO
> 105] 20Nov05 NSTAR-05E IA
> 106] 20Nov05 CIBE-LF1 IA
> 107] 10Dec05 ASTRO-5 OK Oklahoma State Univ
> 108] 10Dec05 NNU ID Northwest Nazarene Univ
> 109] 10Dec05 UX-4 TN Univ of Tennessee
> 110] 17Dec05 HIBALL-6 AL
> 111] 27Dec05 HIBALL-7 AL
> 112] 30Dec05 ANSR-28 AZ
> 113] 31Dec05 UX-5 TN Univ of Tennessee
>
> TNX es 73 de Ralph Wallio, W?RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2282. Re: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-07 00:23:00 UTC
From: Zack Clobes
Topic: 2271 Message: 2282

I just spoke with the lady at the hotel.

Harry, they should be adjusting your room rates. I told them about your experience back in April, and they said that they would take care of it so make sure you get the discounted rate.

As for everyone else, she has to check things out tomorrow, but there shouldn't be any problems extending the group rate into Thursday. Thursday was originally in the contract, but somehow got dropped and I failed to notice it. Hopefully things will be straightened out by tomorrow afternoon.

At this point, they are holding our block of 30 rooms open until the weekend of June 17th. After that, the rooms will be fair game to anyone, so if you're going to stay with the rest of the group, please make your reservations soon.

Zack Clobes, W0ZC
Project: Traveler

Harry M wrote:
>
>
> The Hotel is very non-consistent with their rates.
> I booked mine last month for the 3rd though the 6th
> and the rate was $79 per nite. I wonder what it will
> be at check-in?
>
> I think an explanation from the Hotel manager or
> Corporate is in order!
>
> 73 Harry KC5TRB
>
>

2283. High-Altitude Chamber available at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-07 02:10:47 UTC
From: Zack Clobes
Topic: 2283 Message: 2283

I'm trying to arrange to have a small (6 inch cubed?) altitude chamber available to anyone to use during Friday's events. Does this hold any air (or lack thereof) for anyone, or do most groups have access to this type of equipment?

Zack

2284. Re: [GPSL] Hotel Rooms for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-07 03:29:20 UTC
From: Harry M
Topic: 2271 Message: 2284

Thanks for checking on the room rates Zack!

I don't have access to an altitude chamber
and I can't think of anything right at the
moment that I would like to test.

73 Harry KC5TRB

2285. The Thursday snafu is now fixed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 00:30:16 UTC
From: Zack Clobes
Topic: 2285 Message: 2285

The going rate for the Grand Prairie is $74 a night (plus tax) for Thursday through Saturday nights.

Sorry about the troubles.

Zack Clobes, W0ZC
Project: Traveler

2286. RE: [GPSL] The Thursday snafu is now fixed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 00:49:39 UTC
From: Marty Griffin
Topic: 2285 Message: 2286

Thanks Jack,
Hope this is the only SNAFU and GPSL is a wild success.
- Marty, WA0GEH

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Wednesday, June 07, 2006 6:30 PM
To: Group GPSL
Subject: [GPSL] The Thursday snafu is now fixed

The going rate for the Grand Prairie is $74 a night (plus tax) for Thursday through Saturday nights.

Sorry about the troubles.

Zack Clobes, W0ZC
Project: Traveler

Yahoo! Groups Links

2287. Re: [GPSL] The Thursday snafu is now fixed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 14:06:33 UTC
From: mconner1@gmail.com
Topic: 2285 Message: 2287
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2288. nearspaceventures.com down?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 14:49:17 UTC
From: mconner1@gmail.com
Topic: 2288 Message: 2288

Anyone else having trouble reaching nearspaceventures.com? Haven't been able to get there since about 9am CDT this morning.

73 de Mark N9XTN

2289. Re: [GPSL] nearspaceventures.com down?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 15:24:50 UTC
From: PAUL VERHAGE
Topic: 2288 Message: 2289

It looks like it's down here.

Paul

>>> mconner1@... 6/8/2006 8:49:17 am >>>
Anyone else having trouble reaching nearspaceventures.com? Haven't
been able to get there since about 9am CDT this morning.

73 de Mark N9XTN

Yahoo! Groups Links

2290. Re: [GPSL] The Thursday snafu is now fixed

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 15:32:11 UTC
From: Zack Clobes
Topic: 2285 Message: 2290

I'm not aware of any penalties.

Zack

> Thanks for sorting this out Zack. I should have asked this before, but if
> we make reservations for Saturday night and check out Saturday morning
> instead, will we have to pay for that night's room? Sometimes with the
> better rates there are some cancellation penalties.
> If you don't already know I'll ask when I make my reservation and report
> back.
> - Mark
>
> ----- Original Message -----
> From: Zack Clobes <zclobes@...>
> Date: Wednesday, June 7, 2006 7:30 pm
> Subject: [GPSL] The Thursday snafu is now fixed
> To: Group GPSL <GPSL@yahoogroups.com>
>
>> The going rate for the Grand Prairie is $74 a night (plus tax) for
>> Thursday through Saturday nights.
>>
>> Sorry about the troubles.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>

2291. RE: [GPSL] nearspaceventures.com down?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 15:53:38 UTC
From: Kaiser, Deborah
Topic: 2288 Message: 2291

I can get in just fine from here.

Deb Kaiser, FLMI
Transamerica Life Insurance
New Products Setup & Implementation
deborah.kaiser@transamerica.com <mailto:deborah.kaiser@...>

816-855-5313

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
Behalf Of PAUL VERHAGE
Sent: Thursday, June 08, 2006 10:25 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] nearspaceventures.com down?

It looks like it's down here.

Paul

>>> mconner1@... <mailto:mconner1%40gmail.com> 6/8/2006
8:49:17 am >>>
Anyone else having trouble reaching nearspaceventures.com?
Haven't
been able to get there since about 9am CDT this morning.

73 de Mark N9XTN

Yahoo! Groups Links

2292. Re: RE: [GPSL] nearspaceventures.com down?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 16:16:55 UTC
From: mconner1@gmail.com
Topic: 2288 Message: 2292
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2293. Re: [GPSL] nearspaceventures.com down?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-08 16:19:45 UTC
From: Keith Kaiser
Topic: 2288 Message: 2293
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2294. NJ2BB balloon callsign now NJ2BB-11

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-09 23:21:39 UTC
From: wb8elk@aol.com
Topic: 2294 Message: 2294

The PA virtual school's balloon Blanchard I scheduled for Saturday morning callsign is now: NJ2BB-11 (changed from the original NJ2BB-62)....The original reason for the -62 is that the Battleship New Jersey's radio club is assisting with the launch and BB-62 is the battleship's number.

- Bill WB8ELK

2295. Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-11 17:29:20 UTC
From: Gene Harlan
Topic: 1887 Message: 2295

July 1st is the next deadline for articles for ATVQ. Please advise what might be expected.

Anyone have pictures from Dayton?

Don't forget, the ATV Contest is under way!

Let me know what you will be sending.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

2296. Re: [KNSP] NSTAR 06-A quick summary

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-12 03:13:48 UTC
From: Mike Manes
Topic: 2296 Message: 2296

Hi Mark,

Dang!! Yet another victim of PBC! Hope the fast release doodad that
I'll show & tell at GPSL will help put a dent in that casualty record.
Planning on flying it on EOSS-106 (25 lb neck load) next weekend.

73 de Mike W5VSI, EOSS

Mark Conner wrote:
> We once again have put our backup beacon down in an unknown location.
> We received a posit at about 3200' MSL which was a couple miles NNW of
> Grant, IA. With light winds observed in the lower atmosphere, we
> expected the landing to be within a few hundred feet of that last known
> location. However, after about 1.5 hours of searching a cornfield we
> came up empty. The corn in this field was open enough to see most of
> the way down the rows, so I think if it was there we would have seen it.
>
> Here's the last posit we got:
> http://www.findu.com/cgi-bin/find.cgi?last-12
>
> (reformatted into an APRS posit manually)
> N9XTN-9>APS224,N0WKF-2*,WIDE2-1,qAO,K0SUN-15:;LAST-12
> *111435z4111.46N/09500.52W/A=003277
>
> We did recover the main beacon OK about 2 mi NNE of Mt Etna, IA. The
> balloon fouled below the main payload and may have cause the spring clip
> holding the backup beacon line to open. The clip was still attached,
> but no sign of the line to the other payload. The chute was a twisted
> mess and must have just barely worked. About 280 photos were taken,
> which I haven't reviewed yet.
>
> 73 de Mark N9XTN
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2297. DO NOT open mail with "New Graphic Site"

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-12 21:41:03 UTC
From: mconner1@gmail.com
Topic: 2297 Message: 2297

DO NOT open any emails with the subject "New Graphic Site". The mail may appear to come from a legitimate Yahoo list member. Opening the e-mail is enough to cause the worm to spread. One of the lists I manage has already been hit with this.

73 de Mark N9XTN

http://www.pcworld.com/news/article/0,aid,126048,00.asp

Worm Attacks Yahoo E-Mail

Mass-mailing worm exploits a vulnerability in the Web-based e-mail, but its impact is low.

Jeremy Kirk, IDG News Service
Monday, June 12, 2006

A mass-mail worm that exploits a vulnerability in Yahoo's Web-based e-mail is making the rounds but the impact appears to be low, security vendor Symantec said today.

The worm, which Symantec calls JS.Yamanner@m, is different from others in that a user merely has to open the e-mail to cause it to run, said Kevin Hogan, senior manager for Symantec Security Response. Mass-mail worms have usually been contained in an attachment with an e-mail note encouraging a user to open it.

The worm, written in JavaScript, takes advantage of a vulnerability that allows scripts embedded in HTML e-mail to run in the users' browsers. Yahoo users should be able to modify their settings to block the zero-day exploit, Hogan said.

Symantec rated the worm a Level 2 threat, one notch above its least harmful ranking. Hogan said the worm did not appear to be spreading widely, and he did not anticipate the threat level rising.

How It Spreads

When activated, the worms then sends itself to other users in the victim's address book who also use Yahoo e-mail with the suffixes of @... or @yahoogroups.com. The worm mimics a function within Yahoo's Web mail called "Quickbuilder," which allows a user to add contacts in an address book from received e-mail, Hogan said. The process, however, is transparent to the victim, he said.

The harvested e-mail addresses are sent to a remote server. Users of Yahoo Mail Beta do not appear to be affected, Symantec said.

The worm also opens a browser that displays a Web page that does not appear to contain malicious content.

Although Yahoo's Web e-mail has not been fixed, users are advised to update virus and firewall definitions and block any e-mail sent from av3@.... The subject line of the e-mail with the worm says "New Graphic Site," and the body says "this is test."

Yahoo officials could not immediately be reached for comment.

2298. New Graphic Site

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-12 22:44:36 UTC
From: J B
Topic: 2298 Message: 2298

Note: forwarded message attached.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2299. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-14 13:37:40 UTC
From: PAUL VERHAGE
Topic: 1887 Message: 2299

Gene, I emailed an article last March. I haven't seen a copy of ATV Q, so I'm not sure you got it. If not, I have an article right now. Otherwise, I'm starting one on last month's balloon launch.

Paul

>>> atvq@... 6/11/2006 11:29:20 am >>>
July 1st is the next deadline for articles for ATVQ. Please advise what might be expected.

Anyone have pictures from Dayton?

Don't forget, the ATV Contest is under way!

Let me know what you will be sending.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

2300. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-14 16:13:38 UTC
From: Gene Harlan
Topic: 1887 Message: 2300

Paul,

Yes, I need to get busy and take care of the authors again. Dayton happens right after the Spring issue comes out and with getting ready and follow-up from Dayton it is easy to forget.

The article that was in the Spring issue was titled "The FITTS 2005 ARHAB Launch."

Gene - WB9MMM

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 14, 2006 8:37 AM
Subject: Re: [GPSL] Amateur Television Quarterly

Gene, I emailed an article last March. I haven't seen a copy of ATV Q, so I'm not sure you got it. If not, I have an article right now. Otherwise, I'm starting one on last month's balloon launch.

Paul

>>> atvq@... 6/11/2006 11:29:20 am >>>
July 1st is the next deadline for articles for ATVQ. Please advise what might be expected.

Anyone have pictures from Dayton?

Don't forget, the ATV Contest is under way!

Let me know what you will be sending.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

Yahoo! Groups Links

2301. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-14 16:38:29 UTC
From: PAUL VERHAGE
Topic: 1887 Message: 2301

Sounds good. Thanks. I was beginning to worry that my email wasn't
working properly.

Paul

>>> atvq@... 6/14/2006 10:13:38 am >>>
Paul,

Yes, I need to get busy and take care of the authors again. Dayton
happens
right after the Spring issue comes out and with getting ready and
follow-up
from Dayton it is easy to forget.

The article that was in the Spring issue was titled "The FITTS 2005
ARHAB
Launch."

Gene - WB9MMM

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, June 14, 2006 8:37 AM
Subject: Re: [GPSL] Amateur Television Quarterly

Gene, I emailed an article last March. I haven't seen a copy of ATV
Q,
so I'm not sure you got it. If not, I have an article right now.
Otherwise, I'm starting one on last month's balloon launch.

Paul

>>> atvq@... 6/11/2006 11:29:20 am >>>
July 1st is the next deadline for articles for ATVQ. Please advise
what
might be expected.

Anyone have pictures from Dayton?

Don't forget, the ATV Contest is under way!

Let me know what you will be sending.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene

Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

Yahoo! Groups Links

Yahoo! Groups Links

2302. Helium Orders for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-20 17:21:45 UTC
From: Zack Clobes
Topic: 2302 Message: 2302

I now have the helium order form posted on the website. Note, there is a deadline for ordering gas of Wednesday, 19 July.

http://www.custom-ds.com/gpsl/helium.pdf

I am in the process of moving, so please send the checks to the PO Box listed on the form so they don't get lost in the transition.

Zack Clobes, W0ZC
Project: Traveler

2303. Re: [EOSS] Helium Orders for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-20 23:08:48 UTC
From: Zack Clobes
Topic: 2303 Message: 2303

They will refund untapped bottles. I plan on having at least two tanks
available as backups.

If you only need one, just purchase one - that way I don't have to
figure out who I owe money back to.

Zack

Mike Manes wrote:
> Hi Zack,
>
> LiftWin sez we can fill a 1200 gm with 11 lb neck load with just
> shy of a full T bottle. Normally, EOSS brings out a spare balloon
> and gas to fill it, and our He supplier will refund the price of
> unused bottles. So we should order 2 T bottles, and hope you gas
> supplier has a similar refund policy. True?
>
> 73 de Mike W5VSI
>
> Zack Clobes wrote:
>> I now have the helium order form posted on the website. Note, there
>> is a deadline for ordering gas of Wednesday, 19 July.
>>
>> http://www.custom-ds.com/gpsl/helium.pdf
>>
>>
>> I am in the process of moving, so please send the checks to the PO
>> Box listed on the form so they don't get lost in the transition.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
>>
>>
>> ------------------------ Yahoo! Groups Sponsor
>> ----------------------~--> Yahoo! Groups gets a make over. See the new
>> email design.
>> http://us.click.yahoo.com/vTZcGA/lOaOAA/79vVAA/_OlolB/TM
>> ---~->
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>> Yahoo! Groups Links
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2304. T-shirts?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 04:59:24 UTC
From: Mark Conner
Topic: 2304 Message: 2304
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2305. RE: [GPSL] T-shirts?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 12:46:38 UTC
From: Kaiser, Deborah
Topic: 2304 Message: 2305

Good Morning, Mark - Near Space Ventures is interested and there will be at a minimum 2 and perhaps 6 or more shirts ordered for our group.

Thanks for doing this again. I liked the shirts last year and the fact that there was a nice t-shirt for women also.

W0DLK

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Tuesday, June 20, 2006 11:59 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] T-shirts?

Are people interested in ordering T-shirts this year? I am thinking of doing something along the lines of what we did last year with zazzle.com. The front would be similar with the ARHAB logo on the pocket area, but I would like to use a new photo for the back. If you have photos you'd like to have considered for the shirt backs, e-mail them to me at n9xtn@... - they may not make it through the e-mail lists. Landscape orientation is preferred, but a good portrait one may work. Resolution should be at least 1024x768 to prevent pixelation when printed.

Shirts would be on the order of $18-22 plus postage when ordered individually. I would suggest each balloon group order their shirts as a group to save shipping and to get a quantity discount.

I would like to get the stuff online in the next couple of weeks so people have time to order them and have them arrive before they leave for Hutchinson. If you are interested in a shirt, also e-mail me - if there are enough people to make it worthwhile I'll work on the design.

73 de Mark N9XTN

2306. Re: [GPSL] T-shirts?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 14:21:13 UTC
From: Roger Hammond
Topic: 2304 Message: 2306
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2307. Re: T-shirts?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 15:35:52 UTC
From: jlb2120
Topic: 2304 Message: 2307

--- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
>
> Are people interested in ordering T-shirts this year? I am
thinking of
> doing something along the lines of what we did last year with
zazzle.com.
> The front would be similar with the ARHAB logo on the pocket area,
but I
> would like to use a new photo for the back. If you have photos
you'd like
> to have considered for the shirt backs, e-mail them to me at
> n9xtn@... they may not make it through the e-mail lists.
> Landscape orientation is
> preferred, but a good portrait one may work. Resolution should be
at least
> 1024x768 to prevent pixelation when printed.
>
> Shirts would be on the order of $18-22 plus postage when ordered
> individually. I would suggest each balloon group order their
shirts as a
> group to save shipping and to get a quantity discount.
>
> I would like to get the stuff online in the next couple of weeks
so people
> have time to order them and have them arrive before they leave for
> Hutchinson. If you are interested in a shirt, also e-mail me - if
there are
> enough people to make it worthwhile I'll work on the design.
>
> 73 de Mark N9XTN
>
HI Mark:
I would sure be interested in a shirt....1 large
later, Jack

2308. New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 21:22:18 UTC
From: Hank
Topic: 2308 Message: 2308

A newbie recently asked about a good HT for balloon APRS use.

I was dismayed and very surprised that just about all of the new HTs (last 2 years maybe) are not equipped with an external power jack. Even for ordinary terrestrial use I have to be able to have this feature.

What is going on here? Just a marketing decision type thing? Something about lithium batteries in some instances?

To me it's a bad trend.

Hank

2309. Re: [GPSL] New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 21:34:18 UTC
From: mconner1@gmail.com
Topic: 2308 Message: 2309

The Yaesu VX-2R has an external DC jack. Coincidentally, it’s the same size as most chargers for cell phones with a coaxial plug. I found this out a couple weeks ago and was kicking myself for throwing out a couple of old chargers. Now I need to see if I can get some cheap ones on eBay.

73 de Mark N9XTN

----- Original Message -----
From: Hank <n1ltv@...>
Date: Wednesday, June 21, 2006 5:25 pm
Subject: [GPSL] New generation HTs lack external power connnector
To: GPSL@yahoogroups.com

> A newbie recently asked about a good HT for balloon
> APRS use.
>
> I was dismayed and very surprised that just about
> all of the new HTs (last 2 years maybe) are not
> equipped with an external power jack. Even for
> ordinary terrestrial use I have to be able to have
> this feature.
>
> What is going on here? Just a marketing decision
> type thing? Something about lithium batteries in
> some instances?
>
> To me it's a bad trend.
>
> Hank
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2310. balloons and VC-H1 on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 23:02:30 UTC
From: Mark Conner
Topic: 2310 Message: 2310
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2311. Re: [GPSL] New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-21 23:51:45 UTC
From: Kent Ochs
Topic: 2308 Message: 2311

Hank,

I agree with you 100% that I would not want to purchase a radio that did not have an external power connection. Specifically which HT model(s) have you identified as not having external power connectors?

73s.

Kent

----- Original Message ----
From: mconner1@...
To: GPSL@yahoogroups.com
Sent: Wednesday, June 21, 2006 4:34:18 PM
Subject: Re: [GPSL] New generation HTs lack external power connnector

The Yaesu VX-2R has an external DC jack. Coincidentally, it's the same size as most chargers for cell phones with a coaxial plug. I found this out a couple weeks ago and was kicking myself for throwing out a couple of old chargers. Now I need to see if I can get some cheap ones on eBay.

73 de Mark N9XTN

----- Original Message -----
From: Hank <n1ltv@...>
Date: Wednesday, June 21, 2006 5:25 pm
Subject: [GPSL] New generation HTs lack external power connnector
To: GPSL@yahoogroups.com

> A newbie recently asked about a good HT for balloon
> APRS use.
>
> I was dismayed and very surprised that just about
> all of the new HTs (last 2 years maybe) are not
> equipped with an external power jack. Even for
> ordinary terrestrial use I have to be able to have
> this feature.
>
> What is going on here? Just a marketing decision
> type thing? Something about lithium batteries in
> some instances?
>
> To me it's a bad trend.
>
> Hank
>
>

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Yahoo! Groups Links

2312. Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 03:49:00 UTC
From: Hank
Topic: 2308 Message: 2312

>Specifically which HT model(s) have you identified as not having
>external power connectors?

Kent,

It was actually just about every model of 2 meter-only HT
in current production by Icom, Yaesu, and Kenwood!

The lack of this feature is not brought out in advertising,
or even in the web site "spec sheets" on the radios. In most
instances, one has to download the entire user manual
(typically pdf) and read the fine print.

I'll have to search my old email to come up with the
model I did suggest, but I can tell you it had a weird
connector for the speaker/mike instead of what has become
unbiquitous and a de facto standard, the dual mini plug
setup.

I hope that doesn't go by the wayside, although if any
new connector type does take over, as long as it's widely
available from other than the HT OEM it wouldn't be too bad.
I don't believe this one is (readily available), therefore
you have to buy the radio manufacturer's special adapter
at a cost of $8.

Hank

2313. Re: [GPSL] Helium Orders for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 02:20:51 UTC
From: PAUL VERHAGE
Topic: 2302 Message: 2313

I'll have to take care of this when I get back to Idaho. I'll be ordering 1-1/2 tanks, so I'd like to share with someone.

Paul

>>> zclobes@... >>>
I now have the helium order form posted on the website. Note, there is a deadline for ordering gas of Wednesday, 19 July.

http://www.custom-ds.com/gpsl/helium.pdf

I am in the process of moving, so please send the checks to the PO Box listed on the form so they don't get lost in the transition.

Zack Clobes, W0ZC
Project: Traveler

Yahoo! Groups Links

2314. Re: [GPSL] T-shirts?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 02:10:16 UTC
From: PAUL VERHAGE
Topic: 2304 Message: 2314

I'm interested.

Thanks,
Paul

>>> mconner1@... >>>
Are people interested in ordering T-shirts this year? I am thinking of doing something along the lines of what we did last year with zazzle.com.
The front would be similar with the ARHAB logo on the pocket area, but I would like to use a new photo for the back. If you have photos you'd like
to have considered for the shirt backs, e-mail them to me at n9xtn@...- they may not make it through the e-mail lists. Landscape orientation is
preferred, but a good portrait one may work. Resolution should be at least
1024x768 to prevent pixelation when printed.

Shirts would be on the order of $18-22 plus postage when ordered individually. I would suggest each balloon group order their shirts as a
group to save shipping and to get a quantity discount.

I would like to get the stuff online in the next couple of weeks so people
have time to order them and have them arrive before they leave for Hutchinson. If you are interested in a shirt, also e-mail me - if there are
enough people to make it worthwhile I'll work on the design.

73 de Mark N9XTN

2315. GPSL t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 19:26:12 UTC
From: mconner1@gmail.com
Topic: 2315 Message: 2315

I've gotten enough interest to start working on shirts. If you have a photo you'd like to have considered for the shirt, let me know. It can be a photo taken by a payload, or a ground shot of a launch. E-mail me photos at n9xtn@... - 1024x768 or larger and landscape orientation are best.

73 de Mark N9XTN

2316. Mystery APRS Unit.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 23:27:17 UTC
From: nssdz
Topic: 2316 Message: 2316

Greetings Everyone.

In a great box of donated goodies for balloon flights I have found a mystery APRS Unit.

No one here has as clue as to who made it.

It looks like home made but from commercial made components.

But i have no more information than that..

Its in the photos area in the NSS Album.

Anyone have information for mE?

Joe WB9SBD

Near Space Sciences

2317. Re: [GPSL] New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 21:00:32 UTC
From: Mike Manes
Topic: 2308 Message: 2317

Hi Hank,

It's usually not a big problem to tack pigtails onto the
the + and - battery pack terminals and run them to your
own batts (LiSO2 still appear to be best). Li-ion is not as
tolerant of low temps as those primary cells.

If the radio comes with a Li-ion rechargeable, then it's gonna
need a specialized charger, lest one release the Sacred Smoke.
The Alinco DJ-C1/4/5 series credit card HTs came with 4.3 V Li-ions,
but I replaced the batts with regulated +5.0V used by the GSP
engines; they work fine w/ an extra 50mW RF output.

The biggest headache with the newer rigs is the pushbutton power
switch, e.g DJ-7. They don't power up when external power is
applied, so one must dig into the payload at launch rather than
just hitting an external switch or inserting a power jumper. I was
able to install a mod to get around this on the Magellan Etrex
GPS (on eoss.org), but the DJ-C7 power PB goes straight to an IO
pin on the uP - not sure how to trick that one, but Larry K0ANI is
working on it.

You might advise your newbie to hit the web or E%^& for a used
DJ-C5 dualbander. It does take a little surgery to bypass the internal
matching network and get coax to the 50-ohm tx/rx port, but it's
worth the trouble. The DJ-C1 2m-only HT is easier to add coax to,
and would be fine for getting into the APRS backbone. W/O batts and
with 6" of RG-174 to a BNC female, they weigh just 70 gm.

73 de Mike W5VSI
EOSS

Hank wrote:
> A newbie recently asked about a good HT for balloon
> APRS use.
>
> I was dismayed and very surprised that just about
> all of the new HTs (last 2 years maybe) are not
> equipped with an external power jack. Even for
> ordinary terrestrial use I have to be able to have
> this feature.
>
> What is going on here? Just a marketing decision
> type thing? Something about lithium batteries in
> some instances?
>

> To me it's a bad trend.
>
> Hank
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2318. Re: [GPSL] Mystery APRS Unit.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 23:44:39 UTC
From: mconner1@gmail.com
Topic: 2316 Message: 2318
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2319. Re: [GPSL] Mystery APRS Unit.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-22 23:58:18 UTC
From: Joe
Topic: 2316 Message: 2319

Hi Mark,,

Yeah that was my guesses as far as the connections goes.

I just hate the word,,''Fire It Up""

if you know WHAT I mean!

Joe WB9SBD

mconner1@... wrote:

> This appears to be a TinyTrak II (yellow PCB) mated with a GPS unit
> (green) of some sort. Can't tell what the board underneath the two
> would do (maybe just a support?)
>
> Best guess on labeled stuff:
>
> A: Programming interface for TT2
>
> B & E: HT connectors
>
> D: Power (probably 7V minimum)
>
> C: GPS antenna
>
> I'd be willing to bet you could plug this into an HT and a 12V battery
> and it would fire right up.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: nssdz <nss@...>
> Date: Thursday, June 22, 2006 7:29 pm
> Subject: [GPSL] Mystery APRS Unit.
> To: GPSL@yahoogroups.com
>
> > Greetings Everyone.
> >
> > In a great box of donated goodies for balloon flights I have found a
> > mystery APRS Unit.
> >
> > No one here has as clue as to who made it.
> >
> > It looks like home made but from commercial made components.
> >

> > But i have no more information than that..
> >
> > Its in the photos area in the NSS Album.
> >
> > Anyone have information for mE?
> >
> > Joe WB9SBD
> >
> > Near Space Sciences
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2320. Re: [GPSL] Mystery APRS Unit.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-23 02:07:06 UTC
From: David Hoffman
Topic: 2316 Message: 2320

That GPS looks like a Motorola Oncore of some sort. And my guess about
the board behind it is a home made TTL to serial level converter perhaps
with the 5V power supply that the Oncore needs.

David Hoffman - KE4FGW

> This appears to be a TinyTrak II (yellow PCB) mated with a GPS unit
> (green) of some sort. Can't tell what the board underneath the two would
> do (maybe just a support?)
> Best guess on labeled stuff:
> A: Programming interface for TT2
> B & E: HT connectors
> D: Power (probably 7V minimum)
> C: GPS antenna
> I'd be willing to bet you could plug this into an HT and a 12V battery and
> it would fire right up.
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: nssdz <nss@...>
> Date: Thursday, June 22, 2006 7:29 pm
> Subject: [GPSL] Mystery APRS Unit.
> To: GPSL@yahoogroups.com
>
>> Greetings Everyone.
>>
>> In a great box of donated goodies for balloon flights I have found a
>> mystery APRS Unit.
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>> No one here has as clue as to who made it.
>>
>> It looks like home made but from commercial made components.
>>
>> But i have no more information than that..
>>
>> Its in the photos area in the NSS Album.
>>
>> Anyone have information for mE?
>>
>> Joe WB9SBD
>>
>> Near Space Sciences
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2321. Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-24 15:00:39 UTC
From: Hank
Topic: 2308 Message: 2321

Mike,

Thanks for another info-packed post that has a bunch of good
tidbits.

> It's usually not a big problem to tack pigtails onto the
> the + and - battery pack terminals and run them to your
> own batts (LiSO2 still appear to be best).

I'm not one (like many on the list) to shy away from equipment
surgery, but I'm drawing a line in the sand on this external
power connector (EPC) issue for ordinary HT use on land.

I'll try mightily to only buy HTs as long as anyone makes rigs
with some kind of connector. If it looks like the EPC is
already being phased out, it might not be too soon to start
writing letters to Alinco, Yaesu, Kenwood, and Alinco to try
to reverse, or at least slow, this unfortunate trend.

> The biggest headache with the newer rigs is the pushbutton power
> switch, e.g DJ-7. They don't power up when external power is
> applied, so one must dig into the payload at launch rather than
> just hitting an external switch or inserting a power jumper. I was
> able to install a mod to get around this on the Magellan Etrex
> GPS (on eoss.org), but the DJ-C7 power PB goes straight to an IO
> pin on the uP - not sure how to trick that one, but Larry K0ANI is
> working on it.

I would think that a 555 might be a way to solve that, and with
8 pin micros available for little more than the cost of a 555,
you could always use that solution which most assuredly would
do any tricks you needed, and more, to turn on the rig.

> You might advise your newbie to hit the web or E%^& for a used
> DJ-C5 dualbander.

The new person was extremely fortunate to have a grant, and used
stuff from anywhere was absolutely forbidden (I brought up ebay).
I found a rig (will have to look up exactly what model) that had
an EPO, but it took a while, and the whole incident served to
show what is going on with the design of modern HTs.

Hank

2322. Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-24 15:11:34 UTC
From: Hank
Topic: 2308 Message: 2322

> I'm not one (like many on the list) to shy away from equipment
> surgery,

Just to avoid any misunderstanding, I mean that many folks on this list do dive right in, without hesitation, to do various mods on rigs, cameras, batteries, etc.

The wording above seemed okay when written, but I can see there's a chance it might be misinterpreted.

2323. Re: [GPSL] Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-25 00:27:00 UTC
From: Mike Manes
Topic: 2308 Message: 2323

Hi Hank,

Well, there was one comment that suggested that one should shun
any HT that didn't come with an external power jack installed. And
I can certainly understand the reluctance to crack open the case
of a perfectly good rig which is jam packed with SMT components;
to quote "Zen and the Art of Motorcycle Maintenance", this action,
like assembly of Japanese bicycle, "require great peace of mind."

But subject to that caveat, it's doable, especially if all one is
doing is replacing the supplied battery pack with one's own
electrical equivalent.

73 de Mike W5VSI

Hank wrote:
>> I'm not one (like many on the list) to shy away from equipment
>> surgery,
>
> Just to avoid any misunderstanding, I mean that many folks on
> this list do dive right in, without hesitation, to do various mods
> on rigs, cameras, batteries, etc.
>
> The wording above seemed okay when written, but I can see there's
> a chance it might be misinterpreted.
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2324. Re: [GPSL] Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-25 01:10:12 UTC
From: David
Topic: 2308 Message: 2324

Has anybody tried to modify the battery back as an
external power connector. I saw 1 good example of a
guy who waited until his HT battery died, then cracked
open the battery case, and replaced the battery guts
with an external connector regulator, and power filter
caps. It fooled the HT into thinking the battery was
huge.

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2325. Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-25 17:28:43 UTC
From: Hank
Topic: 2308 Message: 2325

> Has anybody tried to modify the battery back as an
> external power connector. I saw 1 good example of a
> guy who waited until his HT battery died, then cracked
> open the battery case, and replaced the battery guts
> with an external connector regulator, and power filter
> caps.

David,

That's a good way to handle the situation if you don't
have an EPC.

I've never done it, but I rescued a Kenwood TR-2600A
2 meter HT (very old) that was going to be thrown out in
the garbage which has the very thing you're describing,
except it's factory made. It allows this rig without
an EPC to run neatly from a cigarette lighter socket.

Hank

2326. RE: [GPSL] Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-25 21:34:31 UTC
From: Mark Conner
Topic: 2308 Message: 2326

I did something similar with an Alinco DJ-190, except to the empty AA holder
came with it. I just wired up a connector to the terminals inside that.
The only problem was soldering to the (nickel?) plated stuff.

73 de Mark N9XTN

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of David
Sent: Saturday, June 24, 2006 20:10
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: New generation HTs lack external power connnector

Has anybody tried to modify the battery back as an
external power connector. I saw 1 good example of a
guy who waited until his HT battery died, then cracked
open the battery case, and replaced the battery guts
with an external connector regulator, and power filter
caps. It fooled the HT into thinking the battery was
huge.

2327. Re: [GPSL] Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-26 02:23:09 UTC
From: Mike Manes
Topic: 2308 Message: 2327

To solder Ni plate, first rough up the surface a little with coarse
sandpaper or a sharp knife, then apply some extra rosin flux and use
a 320C or 800F tip temperature to tin the surface before attaching
and soldering the wire. Real SnPb (60/40) solder works best.
73 de Mike W5VSI

Mark Conner wrote:
> I did something similar with an Alinco DJ-190, except to the empty AA
> holder came with it. I just wired up a connector to the terminals
> inside that. The only problem was soldering to the (nickel?) plated stuff.
>
>
>
> 73 de Mark N9XTN
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>
>
> ---
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *David
> *Sent:* Saturday, June 24, 2006 20:10
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Re: New generation HTs lack external power connnector
>
>
>
> Has anybody tried to modify the battery back as an
> external power connector. I saw 1 good example of a
> guy who waited until his HT battery died, then cracked
> open the battery case, and replaced the battery guts
> with an external connector regulator, and power filter
> caps. It fooled the HT into thinking the battery was
> huge.
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2328. Re: New generation HTs lack external power connnector

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-26 17:29:02 UTC
From: Dave
Topic: 2308 Message: 2328

--- In GPSL@yahoogroups.com, David <dhuff16@...> wrote:
>
> Has anybody tried to modify the battery back as an
> external power connector. I saw 1 good example of a
> guy who waited until his HT battery died, then cracked
> open the battery case, and replaced the battery guts
> with an external connector regulator, and power filter
> caps. It fooled the HT into thinking the battery was
> huge.

I did it with my old Kenwood TH-215. In my case, I opened up the battery case, pulled the old batteries out, and soldered on a pigtail that I could plug into a 12 Volt gell cell. It works, and was a bit more reliable than the external power connector (If you've ever seen one of those short out, it can be rather spectacular!).

Dave

2329. Succesful circle around the pole / Balloon landed in Nigeria caused quite a commotion in a Village

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-30 14:01:24 UTC
From: Luis Eduardo Pacheco
Topic: 2329 Message: 2329
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2330. Re: [GPSL] GPSL t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-30 18:45:27 UTC
From: Keith Kaiser
Topic: 2315 Message: 2330
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2331. Re: [GPSL] GPSL t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2006-06-30 21:26:21 UTC
From: Mark Conner
Topic: 2315 Message: 2331
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2332. ARHAB 2006 mid-year report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-02 12:09:30 UTC
From: Ralph Wallio, W0RPK
Topic: 2332 Message: 2332

Total known 2006 Flights through 30Jun06: 50
(total known flights in 2005: 113)

ARHAB 2006 Contest entries as of 30Jun06:
(more details in http://showcase.netins.net/web/wallio/ARHABrecords.htm)
(additional entries are encouraged)

Highest Altitude
113,074 07Jan06 VWS-3
108,323 23May06 LaACES-04
96,596 22Apr06 Explorer Post 632 2006A
94,397 13May06 PRSGC-5

Longest distance
178.79 04Mar06 WB8ELK HiBall-8

Longest time
3:04 04Mar06 WB8ELK HiBall-8

Telemetry range >50MHz
256.7 01Jul06 W?RPK (CNNSP-06)
163.8 01Apr06 W?RPK (CNNSP-05)
100.1 01Apr06 W?RPK (CIBE-LF2)

Telemetry range <50MHz
701 25Feb06 W?RPK (UTARC UX-7 CW/30m)

QSO distance
No entries

ARHAB 2005 Contest results:
(now removed from our Records page)

Highest GPS Reported Altitude (feet ASL)
118,352 14Jul05 ISU/HABET L-93
115,942 22Oct05 UTARC UX-3
114,973 03Sep05 HiBall-4 (WB8ELK)
113,953 22Oct05 EOSS-99
111,453 29Jan05 SUNTRACKER-XIII
111,446 17Dec05 HiBall-6 (WB8ELK)
111,259 19Nov05 ASTRO-4
111,088 01Oct05 TRAVELER 2005C
108,681 24May05 LaACES-02
105,761 19Nov05 ANSR-27
101,945 10Dec05 ASTRO-05
100,131 24May05 LaACES-03
98,445 05Nov05 ASTRO-3

97,434 09Apr05 2005A (Explorer Post 632)
95,565 21May05 ORB-17

Longest Great Circle Distance, Release to Touchdown (miles)
1,411.41 17Dec05 HiBall-6 (WB8ELK) last known position
265.30 30Dec05 ANSR-28
174.30 21Jun05 GPA DIY ZP SD-8
135.87 29Jan05 SUNTRACKER-XIII
93.10 05Nov05 ASTRO-3

Longest Flight Time, Release to Touchdown (HH:MM)
20:05 17Dec05 HiBall-6 (WB8ELK) last known position
7:50 30Dec05 ANSR-28
5:46 21Jun05 GPA DIY ZP SD-8
3:12 29Jan05 SUNTRACKER-XIII

Greatest Telemetry Downlink Reception Range - >50MHz (miles)
374.3 08Oct05 ORB-19 W?RPK
309.1 01Oct05 TRAVELER 2005C W?RPK
246.0 27Aug05 CNNSP-03 W?RPK
245.0 10Sep05 HABITAT SKYLAB W?RPK
190.8 26Feb05 KU KUBEsat HABS-7 W?RPK
170.5 30May05 NSTAR-05C W?RPK

Greatest Telemetry Downlink Reception Range - <50MHz (miles)
1,870 30Dec05 ANSR-28/ES-OS PSK-31/20m KF4KJQ
1,853 31Dec05 UTARC UX-5 CW/20m HP1AC (Panama)
1,719 03Sep05 ANSR-25 PSK-31/20m W8CSN
1,324 30Dec05 ANSR-28/ES-OS PSK-31/20m N4MSJ
1,316 03Sep05 ANSR-25 PSK-31/20m K?HZI
1,179 03Sep05 ANSR-25 PSK-31/20m W?RPK
1,149 30Dec05 ANSR-28/ES-OS PSK-31/20m W?RPK
1,118 30Dec05 ANSR-28/ES-OS PSK-31/20m KD7KST
860 31Dec05 UTARC UX-5 CW/20m NG5E/MM
843 31Dec05 UTARC UX-5 CW/20m W?RPK

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance (miles)
497 28Aug05 HABITAT SkyLab KC5TRB<>KA9SZX
471 08Oct05 ANSR-26 XE2BSS<>XE2MXZ (Mexico)
386 28Aug05 HABITAT SkyLab KC5TRB<>W?RPK

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2333. Pete Sias?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-03 16:50:18 UTC
From: PAUL VERHAGE
Topic: 2333 Message: 2333

Has anyone heard from Pete? Can he attend GPSL this year?

Paul

2334. FW: Pocket Trackers for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-06 13:43:32 UTC
From: mconner1@gmail.com
Topic: 2334 Message: 2334
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2335. D-STAR payload @ GPSL & Video Podcast

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-06 21:32:57 UTC
From: kc5zrq
Topic: 2335 Message: 2335

I plan on making the trip to GPSL this year. It will be my first time. I am hoping to send up a balloon containing a D-STAR radio, so I'm interested to know if anyone on the list owns a D-STAR digital radio.

I have also just started a video podcast related to APRS. The first episode features a balloon launch by the Amateur Radio Society at Tech (ARSAT), a group of Texas Tech students. You can view the video at http://www.aprstv.com . I'm interested in your feedback on the podcast.

Thanks
John, KC5ZRQ

2336. NearSspace Video

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-06 22:10:39 UTC
From: PAUL VERHAGE
Topic: 2336 Message: 2336

I'm beginning to experiment with making short videos on my flights. You can see one on youtube at this URL

http://www.youtube.com/watch?v=vfGYnAmqhhQ

Paul

2337. Re: [GPSL] NearSspace Video

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-06 22:33:49 UTC
From: Zack Clobes
Topic: 2336 Message: 2337

Interesting viewing, but you've GOT to do something about the music! ;-)

Zack

PAUL VERHAGE wrote:
>
> I'm beginning to experiment with making short videos on my flights. You
> can see one on youtube at this URL
>
> http://www.youtube.com/watch?v=vfGYnAmqhhQ
> <http://www.youtube.com/watch?v=vfGYnAmqhhQ>
>
> Paul
>
>

2338. TINY TRANSPARENT BALLOONS PROBE STRATOSPHERE SECRETS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-08 10:38:58 UTC
From: Ralph Wallio, W0RPK
Topic: 2338 Message: 2338
Attachments: 1 described; binary payloads are missing from this source WARC

From the July 4, 1936, issue

TINY TRANSPARENT BALLOONS PROBE STRATOSPHERE SECRETS

Shimmering bags of transparent material of the kind used in wrapping cigarette packages are the latest tools of science to tap stratosphere secrets. Soaring to altitudes of 20 miles, these small, unmanned balloons are being used to pierce the atmospheric heights far above where men can probe them with giant balloons carrying loads of equipment and human pilots. A vastly wider usefulness to science, research at only a fraction of the former cost, and complete freedom from any possibilities of loss of life are the three motives behind the gleaming balloons now being sent aloft which, through robot scientists in their "gondolas," record and send back to Earth the reports from near the "surface" of the sea of air that surrounds the planet Earth.

At the National Bureau of Standards in Washington, D.C., Dr. L.F. Curtiss has sent up such a balloon to an estimated height of over 100,000 feet. From such a height one could look down on the famed Explorer II as it broke the world's altitude record, 72,395 feet, as would the climbers of Mt. Everest on the ground 29,000 feet below.

And at the Franklin Institute's Bartol Research Foundation, Dr. Thomas H. Johnson is sending up similar balloons in studies with which it is hoped to close the last gaps in the mystery of science that has been the cosmic ray.

http://www.sciencenews.org/articles/20060708/timeline.asp

2339. # of flights at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-10 17:46:18 UTC
From: mconner1@gmail.com
Topic: 2339 Message: 2339

Zack,

Do you have an idea of how many groups are planning to attend and/or fly at GPSL this year?

I realized over the weekend that I've forgotten to make hotel reservations. Guess I'll have to see if there are any rooms remaining in the GPSL block.

Since it's about 3.5 weeks away, we should also begin thinking about frequency management issues.

73 de Mark N9XTN

2340. Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-10 22:03:28 UTC
From: Zack Clobes
Topic: 2340 Message: 2340

The deadline for ordering helium tanks is looming soon. So far I have had two tanks paid for (CNNSP and Taylor Uni - Thank You) as of last Wednesday or so when I checked my box.

Anyone else planning on flying at GPSL needs to get their checks to me by 19 July.

Zack Clobes, W0ZC
Project: Traveler

2341. Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-10 22:05:42 UTC
From: Zack Clobes
Topic: 2341 Message: 2341

So far I haven't had too many details of who is flying what. Please include the following:

1. Name of your group

2. Website for your group

3. Callsign(s) of your payload

4. A cellphone number that will be carried on the chase (for post-recovery coordination)

5. Number of transmitters and their band (specific frequencies only if you're rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq).

6. Size of balloon

7. Approx number of helium tanks required (K or T)

8. Total flight weight

9. Expected ascent/descent rate

10. Projected burst altitude

11. Special requirements/requests for the GPSL coordinator

12. Short description of your payload including cameras, transmission modes, experiments, etc.

2342. Re: [GPSL] Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-10 22:10:54 UTC
From: wb8elk@aol.com
Topic: 2341 Message: 2342

In a message dated 7/10/2006 5:06:38 P.M. Central Daylight Time,
zclobes@... writes:

1. Name of your group
WB8ELK

2. Website for your group
http://www.wb8elk.com (http://www.wb8elk.com)

3. Callsign(s) of your payload
WB8ELK-12
WB8ELK voice ID
WB8ELK ATV

4. A cellphone number that will be carried on the chase (for post-recovery
coordination)
(256) 656-7189

5. Number of transmitters and their band (specific frequencies only if
you're rock-bound or don't wish to be time-slotted with others on the 144.34/39
freq).
3

6. Size of balloon
Kaysam 2000 gram

7. Approx number of helium tanks required (K or T)
291 cu ft

8. Total flight weight
6 pounds

9. Expected ascent/descent rate
1000 ft/min....1300 ft.min

10. Projected burst altitude
102,000 feet

11. Special requirements/requests for the GPSL coordinator
Can time slot on 426.25 MHz with EOSS if others running ATV...otherwise,
439.25 MHz if only myself and EOSS running ATV.

12. Short description of your payload including cameras, transmission modes,
experiments, etc.

ATV with live camera, APRS, voice ID

- Bill WB8ELK

2343. Re: [GPSL] Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-10 22:29:58 UTC
From: mconner1@gmail.com
Topic: 2341 Message: 2343
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2344. Re: Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-10 22:32:36 UTC
From: Zack Clobes
Topic: 2340 Message: 2344

It's on the website - see the link below.

http://www.custom-ds.com/gpsl/helium.pdf

Zack

WB8ELK@... wrote:
> Hi Zack,
>
> I'd like a 291 cu ft tank....but I can't find the email with your
> mailing address to send the check...can you resend to me and I'll send
> it out to you.
>
> - Bill WB8ELK
>
> My payload:
>
> APRS: WB8ELK-11 (any freq is fine - whatever you coordinate)
> Beacon: WB8ELK voice ID: 146.565 but can change it if other using that
>
> ATV: 439.25 MHz (or time slotted with EOSS like I did last year on
> 426.25 MHz is others running ATV)

2345. RE: [GPSL] Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-11 00:17:15 UTC
From: Roger Hammond
Topic: 2341 Message: 2345

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Zack Clobes
Sent: Monday, July 10, 2006 5:06 PM
To: Group GPSL
Subject: [GPSL] Flight Configurations for GPSL

So far I haven't had too many details of who is flying what. Please include the following:

1. Name of your group CNNSP - Central NE Near Space Program

2. Website for your group www.cnnsp.org

3. Callsign(s) of your payload KC0MWM-11, WY0F-11

4. A cellphone number that will be carried on the chase (for post-recovery coordination) 308-380-6751

5. Number of transmitters and their band (specific frequencies only if you're rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq).

Two - VHF/UHF

One - 146.565 Mhz CW beacon rock-bound

6. Size of balloon 1200g

7. Approx number of helium tanks required (K or T) 1 - T

8. Total flight weight 9 lbs.

9. Expected ascent/descent rate 1000/1000

10. Projected burst altitude 90,000'

11. Special requirements/requests for the GPSL coordinator

12. Short description of your payload including cameras, transmission modes, experiments, etc. digital camera, digital video/audio recorder, data logging, APRS

2346. Re: [GPSL] Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-11 21:19:54 UTC
From: PAUL VERHAGE
Topic: 2341 Message: 2346

>>> Zack Clobes <zclobes@...> 07/10/06 4:05 PM >>>
So far I haven't had too many details of who is flying what. Please
include the following:

1. Name of your group
NearSsys

2. Website for your group
None at this time

3. Callsign(s) of your payload
KD4STH-9
KD4STH

4. A cellphone number that will be carried on the chase (for
post-recovery coordination)
(208) 631-7162

5. Number of transmitters and their band (specific frequencies only if
you're rock-bound or don't wish to be time-slotted with others on the
144.34/39 freq).
Two transmitters at 144.390

6. Size of balloon
1200 grams

7. Approx number of helium tanks required (K or T)
1-1/2

8. Total flight weight
9-10 pounds

9. Expected ascent/descent rate
1200 ft/min

10. Projected burst altitude
85,000 feet

11. Special requirements/requests for the GPSL coordinator
None

12. Short description of your payload including cameras, transmission
modes, experiments, etc.
Several still cameras, BalloonSat, Idaho Cluster Bomb

2347. Re: [GPSL] Re: Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-11 23:32:08 UTC
From: Troy Campbell
Topic: 2340 Message: 2347

Zack,

I need a full T-Tank and maybe a 1/4 of another. If I need to buy 2 tanks I will but I'd like to share the partial tank with someone.

Troy

Zack Clobes <zclobes@...> wrote: It's on the website - see the link below.

http://www.custom-ds.com/gpsl/helium.pdf

Zack

WB8ELK@... wrote:
Hi Zack,

I'd like a 291 cu ft tank....but I can't find the email with your mailing address to send the check...can you resend to me and I'll send it out to you.

- Bill WB8ELK

My payload:

APRS: WB8ELK-11 (any freq is fine - whatever you coordinate)
Beacon: WB8ELK voice ID: 146.565 but can change it if other using that

ATV: 439.25 MHz (or time slotted with EOSS like I did last year on 426.25 MHz is others running ATV)

Want to be your own boss? Learn how on Yahoo! Small Business.

2348. Re: [GPSL] Re: Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-12 02:41:45 UTC
From: Mark Conner
Topic: 2340 Message: 2348
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2349. Re: [GPSL] Re: Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-12 10:02:26 UTC
From: Troy Campbell
Topic: 2340 Message: 2349

Okay. That'll work. I'll order two today.

Troy

Mark Conner <mconner1@...> wrote:
Troy,

I'll probably need part of a second T tank.

- Mark

On 7/11/06, Troy Campbell <kc0mic@...> wrote: Zack,

I need a full T-Tank and maybe a 1/4 of another. If I need to buy 2 tanks I will but I'd like to share the partial tank with someone.

Troy

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

2350. Re: [GPSL] Re: Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-12 22:13:22 UTC
From: PAUL VERHAGE
Topic: 2340 Message: 2350

I'd also like to split a second tank with someone if that's possible.

Paul

>>> "Mark Conner" <mconner1@...> 07/11/06 8:41 PM >>>
Troy,

I'll probably need part of a second T tank.

- Mark

On 7/11/06, Troy Campbell <kc0mic@...> wrote:
>
> Zack,
>
> I need a full T-Tank and maybe a 1/4 of another. If I need to buy 2
> tanks I will but I'd like to share the partial tank with someone.
>
> Troy
>
>
>

2351. Re: [GPSL] TINY TRANSPARENT BALLOONS PROBE STRATOSPHERE SECRETS

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-13 02:24:45 UTC
From: Mike Manes
Topic: 2338 Message: 2351

Hi Ralph,

Amazing! I thought that Otto Winzen was the creator of the plastic balloon sometime in the mid 1940's. I'm guessing that the film used 1936 was probably cellophane from the description in the article. I don't think polyethylene had been developed then, and mylar (polyester) certainly wasn't.

73 de Mike W5VSI

Ralph Wallio, W0RPK wrote:
> From the July 4, 1936, issue
>
> f7466_1936.jpg
> <javascript:void(popImage('/articles/20060708/f7466_1936.jpg'));>
>
>
>
>
> **
>
>
> TINY TRANSPARENT BALLOONS PROBE STRATOSPHERE SECRETS
>
> <javascript:void(popImage('/articles/20060708/f7466_1936.jpg'));>
>
>
> Shimmering bags of transparent material of the kind used in wrapping
> cigarette packages are the latest tools of science to tap stratosphere
> secrets. Soaring to altitudes of 20 miles, these small, unmanned
> balloons are being used to pierce the atmospheric heights far above
> where men can probe them with giant balloons carrying loads of equipment
> and human pilots. A vastly wider usefulness to science, research at only
> a fraction of the former cost, and complete freedom from any
> possibilities of loss of life are the three motives behind the gleaming
> balloons now being sent aloft which, through robot scientists in their
> "gondolas," record and send back to Earth the reports from near the
> "surface" of the sea of air that surrounds the planet Earth.
>
> At the National Bureau of Standards in Washington, D.C., Dr. L.F.
> Curtiss has sent up such a balloon to an estimated height of over
> 100,000 feet. From such a height one could look down on the famed
> Explorer II as it broke the world's altitude record, 72,395 feet, as
> would the climbers of Mt. Everest on the ground 29,000 feet below.

>
> And at the Franklin Institute's Bartol Research Foundation, Dr. Thomas
> H. Johnson is sending up similar balloons in studies with which it is
> hoped to close the last gaps in the mystery of science that has been the
> cosmic ray.
>
> http://www.sciencenews.org/articles/20060708/timeline.asp
>
>
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2352. Re: [GPSL] # of flights at GPSL?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-13 03:03:10 UTC
From: Mike Manes
Topic: 2339 Message: 2352

Hi Guys,

EOSS plans to fly a time-slottable APRS & digi on 144.34 plus a DF beacon on 145.600. All should be advised NOT to put beacon on 147.555 - that's the KS Skywarn simplex net freq - as we learned the hard way with our crossband repeater flying near Manhattan KS a few years ago. We also plan to fly ATV on 426.25 MHz. There may be some other goodies coming along as yet TBD - will coordinate.

73 de Mike W5VSI

mconner1@... wrote:
> Zack,
>
> Do you have an idea of how many groups are planning to attend and/or fly at GPSL this year?
>
> I realized over the weekend that I've forgotten to make hotel reservations. Guess I'll have to see if there are any rooms remaining in the GPSL block.
>
> Since it's about 3.5 weeks away, we should also begin thinking about frequency management issues.
>
> 73 de Mark N9XTN
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2353. GPSL 2006 ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-13 18:28:58 UTC
From: Harry M
Topic: 2353 Message: 2353

GPSL 2006 ORB FLIGHT

1. Name of your group
Oklahoma Research Balloons

2. Website for your group
http://members.cox.net/hhm_74775/orb/

3. Callsign(s) of your payload
KC5TRB-11

4. A cellphone number ?????

5. Number of transmitters
APRS KC5TRB-11 (250mw) 144.340 (Can change/slot)
TRB FM/CW Beacon (12mw) 147.435 (Fixed)
Parott Repeater on 446.300 (Can change)

6. Size of balloon
850 grams

7. Approx number of helium tanks required (K or T)
NONE (will supply our own)

8. Total flight weight
4 pounds

9. Expected ascent/descent rate
1000 ft/min (UP)
1600 ft/min (DN)

10. Projected burst altitude
80,000 feet +

11. Special requirements/requests for the GPSL coordinator
I only anticipate myself and my son for support and would like to have some volunteers to help on the launch and chase & recovery. You should have mobile APRS tracking capability and DF equipment for the C&R.

12. Short description of your payloads
#1 - APRS KC5TRB-11 (250mw)
TRB FM/CW Beacon (12mw)
#2 - Parott Repeater
#3 - 2 Digital Pencams (hor/ver)

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons

http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

2354. GPSL 2006 T-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 03:28:45 UTC
From: Mark Conner
Topic: 2354 Message: 2354
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2355. Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 04:03:23 UTC
From: Mark Conner
Topic: 2355 Message: 2355
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2356. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 10:28:54 UTC
From: Troy Campbell
Topic: 2355 Message: 2356

http://www.flow-tronic.com/portal/products/aerology/balloons/en

Toward the bottom, they mention the chloroprene balloons and say that 'technical data is available on request."

73 de Troy KC0MIC

Mark Conner <mconner1@...> wrote:
I ordered 3 1500g balloons from Scientific Sales this week - placed the order Sunday and received it today, so they're pretty quick on the shipping. The website says that shipping is extra for weather balloons, but I wasn't charged for it.

One thing I noticed is that the balloons are chloroprene rather than latex. Has anyone worked with chloroprene balloons before? They are supposed to be more light- and age-resistant than latex, but the handling information I've found on the web is contradictory. Some say chloroprene balloons are tougher, others say they need to be handled more carefully to prevent tearing.

I *think* these balloons are Totex, but they are labeled differently than what I've gotten from Kaymont previously. They are in a ziploc-style bag and the label on the box says they're made by "The Weather Balloon Manufacturing Company" of Tokyo, Japan.

73 de Mark N9XTN

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1?/min.

2357. Re: [GPSL] Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 10:37:54 UTC
From: Mike Manes
Topic: 2341 Message: 2357

Hi Zack,
Here's what we have right now. Might bring out some more, weight
budget & freq coordination permitting.
73 de Mike W5VSI, EOSS

Zack Clobes wrote:
> So far I haven't had too many details of who is flying what. Please
> include the following:
>
> 1. Name of your group: Edge of Space Sciences (EOSS)
>
> 2. Website for your group: www.eoss.org
>
> 3. Callsign(s) of your payload:
APRS: AE0SS-11 or KC0YA-11
ATV: AE0SS
DF: AE0SS
>
> 4. A cellphone number that will be carried on the chase (for
> post-recovery coordination):
Marty Griffin WA0GEH: 303-378-3900
Rick Von Glahn N0KKZ: 303-378-0319
>
> 5. Number of transmitters and their band (specific frequencies only if
> you're rock-bound or don't wish to be time-slotted with others on the
> 144.34/39 freq).
ATV: 426.25 MHz rockbound - may be slottable w/o GPS precision
APRS: 2m agile & slottable
DF: 2m only, agile
B-LAN: 433.85 MHz
>
> 6. Size of balloon: 1200 gm Totex
>
> 7. Approx number of helium tanks required (K or T): one T
>
> 8. Total flight weight: 11.3 lb neck load
>
> 9. Expected ascent/descent rate: 1000 fpm up, 1500 fpm down at S/L
>
> 10. Projected burst altitude: 86K'
>
> 11. Special requirements/requests for the GPSL coordinator:
Will there be I-gates on tap to relay APRS data into findu.com?
>
> 12. Short description of your payload including cameras, transmission

> modes, experiments, etc.
De-spun ATV, APRS, DF/cutdown arm/backup cmd rcvr, B-LAN xcvrs,
Fast burst-sensing balloon release device, 5 ft 'chute.
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2358. SCIPP Balloon Fest

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 14:36:57 UTC
From: Ralph Wallio, W0RPK
Topic: 2358 Message: 2358

The Santa Cruz Institute for Particle Physics (SCIPP), http://scipp.ucsc.edu/, runs an annual high
altitude balloon program for high school students in their Outreach area,
http://scipp.ucsc.edu/outreach/ and then http://scipp.ucsc.edu/outreach/BalloonFest.html.

From the latter select numerous links of interest to our ARHAB community, especially to those
that support high school science programs.

I do not find any mention of Amateur Radio, APRS, ARHAB, et al.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2359. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 19:23:27 UTC
From: Hank Riley
Topic: 2355 Message: 2359

> I *think* these balloons are Totex, but they are labeled
> differently than what I've gotten from Kaymont previously.

Mark,

Do these look, smell, feel, or taste :) differently than your
others from Totex?

I've only bought from Kaymont (several years ago).

Hank

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2360. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 19:47:59 UTC
From: mconner1@gmail.com
Topic: 2355 Message: 2360
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2361. Re: [GPSL] GPSL 2006 T-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-14 21:27:56 UTC
From: Joe
Topic: 2354 Message: 2361

Ouch mark,

i don't know if you still have time,, but you should check out Cafe Press,,

They say they can get them out in 2 days so i guess there is still
time,, and you can get shirsts as low as 8 bucks I just threw one in
to check it out.

http://www.cafepress.com/w_a_r.65824090

Joe WB9SBD

Mark Conner wrote:

> I've finally worked out a T-shirt design for this year. There are two
> versions you can work with:
>
> http://www.zazzle.com/product/235431573856277946
> <http://www.zazzle.com/product/235431573856277946>
> This one does not have a callsign on it, and is intended for people
> who don't want a callsign or name on the shirt. It's pretty simple to
> order - you just select the color, size, and style of shirt and place
> your order.
>
> http://www.zazzle.com/product/235295145894529154
> The front of this shirt must be customized with your name and/or
> callsign, or you'll get one with N9XTN on it! Just select the
> Customize button, switch to the front view, then change the text from
> N9XTN to whatever you want.
>
> Shirt prices vary from about $16.50 for a basic white L or XL T-shirt
> to around $23 for a 3XL premium shirt. Ladies shirts, pocket Ts, and
> polos are available too. Because of the color photo on the back, a
> white or gray shirt is recommended. The design is not optimized for
> the "dark" T-shirts.
>
> To get a quantity discount and to save on shipping costs, group orders
> are encouraged.
>
> If you have questions, just e-mail me.
>
> 73 de Mark N9XTN
>
>

2362. The big jump

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-15 09:07:50 UTC
From: Rick von Glahn
Topic: 2362 Message: 2362

Frenchman Michel Fournier is readying himself and equipment to attempt a record-setting free fall from the stratosphere.

http://www.space.com/news/060713_big_jump.html

73 -- Rick

2363. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-15 16:30:37 UTC
From: wb8elk@aol.com
Topic: 2355 Message: 2363

Hi Troy,

Not sure about the difference of Chloroprene vs latex...however....I can answer the Japanese manufacturer question.

Kaymont distributes balloons manufactured by TOTEX in Japan.

Scientific Sales distributes balloons from "The Weather Balloon Manufacturing Company"...also from Japan...they are competitors with Totex.

This has been pretty much always been the case.....the two Japanese companies both manufacture using a similar process and in the past have both been natural latex, which deteriorates quicker in UV than synthetic latex which was the material used by the now out of business US based Kaysam balloon company.

It will be interesting to see how the Chloroprene balloons perform.

- Bill WB8ELK

2364. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-15 17:19:28 UTC
From: Ralph Wallio, W0RPK
Topic: 2355 Message: 2364

Perhaps this information will help:

http://www.flow-tronic.com/portal/products/aerology/balloons/en

Also at the same site in Belgium:

http://www.flow-tronic.com/portal/products/aerology/stab_balloons/en

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2365. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-15 17:07:22 UTC
From: Joe
Topic: 2355 Message: 2365

Hi Bill and all,

Chloroprene,, From what i knew a while ago,, it is a more stable form of rubber that is longer lasting than natural rubber (latex)

it resists the cold better,, and is also more UV resistant, i would be surprised if the Kaymont "Cold" weather balloons were not made of this material.

from a chem supplier I get,,

Chloroprene

ASTM D1418, ISO 1629 Designation: CR

ASTM D2000, SAE J200 Type/Class: BC, BE

Trade Names:
. Baypren? (Bayer Corp.)
. Neoprene? (DuPont Dow Elastomers)

Relative Cost: Moderate

General Temperature Range: -45? to +250? F

Chemically known as polychloroprene but often referred to by the trade name Neoprene?, chloroprene was one of the first synthetic materials developed as an oil-resistant substitute for natural rubber. Neoprene's molecular structure closely mirrors that of natural rubber, with the exception that a chlorine atom has replaced a methyl (CH3) sidegroup. Presence of a chlorine atom in each repeating unit increases the compound's polarity and improves its resistance to hydrocarbon fluids despite the presence of a double bond in the main chain. Because the chlorine atom essentially deactivates the double bond, chloroprene is more resistant to oxygen, ozone, and UV light than similarly unsaturated polymers.

Due to the similarity of their structures, natural rubber and chloroprene are generally comparable in their good strength, abrasion resistance, resilience, elongation, and strain crystallization characteristics. Both also offer a similar low fatigue property, low heat build up, low temperature flexibility, and high bondability. Chloroprene surpasses natural rubber in its resistance to aging, heat, oils, ozone, and solvents. Chloroprene has also gained FDA approval for use in the food and beverage industries.

CR performs well in:
. High aniline point petroleum oils

. Mild acids
. Refrigeration seals (resistance to Freon? and ammonia)
. Silicate ester lubricants
. Water

CR does not perform well in:
. Hydrocarbons (aromatic, chlorinated, nitro)
. Ketones (MEK, acetone)
. Phosphate ester fluids
. Strong oxidizing acids

wb8elk@... wrote:

> Hi Troy,
>
> Not sure about the difference of Chloroprene vs latex...however....I can
> answer the Japanese manufacturer question.
>
> Kaymont distributes balloons manufactured by TOTEX in Japan.
>
> Scientific Sales distributes balloons from "The Weather Balloon
> Manufacturing
> Company"...also from Japan...they are competitors with Totex.
>
> This has been pretty much always been the case.....the two Japanese
> companies
> both manufacture using a similar process and in the past have both been
> natural latex, which deteriorates quicker in UV than synthetic latex
> which was the
> material used by the now out of business US based Kaysam balloon company.
>
> It will be interesting to see how the Chloroprene balloons perform.
>
> - Bill WB8ELK
>
>

2366. Re: [GPSL] GPSL 2006 T-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-15 20:50:48 UTC
From: Mark Conner
Topic: 2354 Message: 2366
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2367. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-16 21:00:47 UTC
From: Mike Manes
Topic: 2355 Message: 2367

I wonder if chloroprene is the technical term for the "synthetic latex"
that Totex uses? Natural latex is the light tan color that we've all
seen before.

Or is this something entirely new from Totex? If it's from Sci Sales,
then it probably not Totex but that other Japanese supplier H?? maybe?

73 de Mike W5VSI

mconner1@... wrote:
> They are a little whiter than the latex balloons, but otherwise look
> almost identical. Haven't had one out of the package yet.
>
> - Mark
>
> ----- Original Message -----
> From: Hank Riley <n1ltv@...>
> Date: Friday, July 14, 2006 2:41 pm
> Subject: Re: [GPSL] Chloroprene balloons from Scientific Sales
> To: GPSL@yahoogroups.com
>
> >
> > > I *think* these balloons are Totex, but they are labeled
> > > differently than what I've gotten from Kaymont previously.
> >
> > Mark,
> >
> > Do these look, smell, feel, or taste :) differently than your
> > others from Totex?
> >
> > I've only bought from Kaymont (several years ago).
> >
> > Hank
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2368. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-17 04:36:25 UTC
From: wb8elk@aol.com
Topic: 2355 Message: 2368

Hi Mike,

According to Kaymont who distributes the Totex balloons...they are 100 percent Natural Latex.....the only company who made synthetic latex was Kaysam who is now out of business.

It's also my understanding that the standard weather balloons sold by Scientific Sales are also Natural Latex but is sold by a competitor to Totex called "The Weather Balloon Manufacturing Company"....however, their Chloroprene balloons may indeed be synthetic latex....but I can't say for sure about that.

- Bill WB8ELK

2369. Re: [GPSL] Chloroprene balloons from Scientific Sales

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-17 13:46:30 UTC
From: mconner1@gmail.com
Topic: 2355 Message: 2369
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2370. GPSL 2006 T-shirt Review

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-18 06:06:44 UTC
From: Rick von Glahn
Topic: 2354 Message: 2370

Ok, Zazzle is expensive compared to Café Press, no doubt. But ...

I ordered the shirt Mark designed with the customizable callsign. The order was placed on Friday, July 14, 2006 at 4:00 AM (yes early morning, not afternoon) and arrived USPS standard delivery on Monday, July 17th. So they're pretty speedy.

I got exactly what I thought I'd get optically, meaning the positioning of everything was exactly as illustrated online. I did some customizing by bumping up the size of the callsign a few notches which required me to fiddle a bit with the layout so it didn't overlap any of the other text. So, pretty much, they do a good job sending you an accurate reproduction of your layout.

I further customized the shirt by selecting a color other than white (yellow). I'm not a white tee fan.

Now for the good or bad news depending on how you like your tees printed. This design applies ink directly to the fabric. Personally, I really like this technique as it lets the fabric breath making for a cooler shirt that isn't a perspiration trap. However, since I picked the yellow fabric, the photo was skewed color wise. Frankly, I like it the way it is but to each his/her own.

The other common method of applying photographs and logos to fabric is to print them on appliqués that are ironed on to the fabric using heat activated glue. This method yields a more detailed photograph as there is more "material" to print to, whereas ink applied to fabric essentially takes on the weave of the fabric as its default resolution.

So, for those of you trying to decide on whether or not ...

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Thursday, July 13, 2006 9:29 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL 2006 T-shirts

I've finally worked out a T-shirt design for this year. There are two versions you can work with:

http://www.zazzle.com/product/235431573856277946
<http://www.zazzle.com/product/235431573856277946>
This one does not have a callsign on it, and is intended for people who don't want a callsign or name on the shirt. It's pretty simple to order - you just select the color, size, and style of shirt and place your order.

http://www.zazzle.com/product/235295145894529154
The front of this shirt must be customized with your name and/or callsign, or you'll get one with N9XTN on it! Just select the Customize button, switch to the front view, then change the text from N9XTN to whatever you want.

Shirt prices vary from about $16.50 for a basic white L or XL T-shirt to around $23 for a 3XL premium shirt. Ladies shirts, pocket Ts, and polos are available too. Because of the color photo on the back, a white or gray shirt is recommended. The design is not optimized for the "dark" T-shirts.

To get a quantity discount and to save on shipping costs, group orders are encouraged.

If you have questions, just e-mail me.

73 de Mark N9XTN

2371. Re: [GPSL] GPSL 2006 T-shirt Review

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-18 14:30:33 UTC
From: David Hoffman
Topic: 2354 Message: 2371

Last year when I ordered two shirts from Zazzle, they accidently put my daughters name on both shirts. I double checked the order and my name was suppose to be on one shirt and my daughter's name on the other. I emailed this info to them, seems I couldn't find a phone number for them, and also told them that the event was coming up very soon. They told me to throw the original shirts away and promptly corrected my order by over nighting the corrected shirts to me at no additional shipping costs. I was able to attend GPSL 2005 with the right shirts after all. I was very impressed with that kind of service from them. I am still impressed with the quality of the shirts today. They are holding up well.

David Hoffman - KE4FGW

> Ok, Zazzle is expensive compared to Caf? Press, no doubt. But ...
>
> I ordered the shirt Mark designed with the customizable callsign. The
> order
> was placed on Friday, July 14, 2006 at 4:00 AM (yes early morning, not
> afternoon) and arrived USPS standard delivery on Monday, July 17th. So
> they're
> pretty speedy.
>
> I got exactly what I thought I'd get optically, meaning the positioning of
> everything was exactly as illustrated online. I did some customizing by
> bumping up the size of the callsign a few notches which required me to
> fiddle
> a bit with the layout so it didn't overlap any of the other text. So,
> pretty
> much, they do a good job sending you an accurate reproduction of your
> layout.
>
> I further customized the shirt by selecting a color other than white
> (yellow).
> I'm not a white tee fan.
>
> Now for the good or bad news depending on how you like your tees printed.
> This
> design applies ink directly to the fabric. Personally, I really like this
> technique as it lets the fabric breath making for a cooler shirt that
> isn't a
> perspiration trap. However, since I picked the yellow fabric, the photo
> was
> skewed color wise. Frankly, I like it the way it is but to each his/her
> own..
>

> The other common method of applying photographs and logos to fabric is to
> print them on appliqu?s that are ironed on to the fabric using heat
> activated
> glue. This method yields a more detailed photograph as there is more
> "material" to print to, whereas ink applied to fabric essentially takes on
> the
> weave of the fabric as its default resolution.
>
> So, for those of you trying to decide on whether or not ...
>
> 73 -- Rick, N?KKZ
>
>
>
>
> _____
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark
> Conner
> Sent: Thursday, July 13, 2006 9:29 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] GPSL 2006 T-shirts
>
>
> I've finally worked out a T-shirt design for this year. There are two
> versions you can work with:
>
> http://www.zazzle.com/product/235431573856277946
> <http://www.zazzle.com/product/235431573856277946>
> This one does not have a callsign on it, and is intended for people who
> don't
> want a callsign or name on the shirt. It's pretty simple to order - you
> just
> select the color, size, and style of shirt and place your order.
>
> http://www.zazzle.com/product/235295145894529154
> The front of this shirt must be customized with your name and/or callsign,
> or
> you'll get one with N9XTN on it! Just select the Customize button, switch
> to
> the front view, then change the text from N9XTN to whatever you want.
>
> Shirt prices vary from about $16.50 for a basic white L or XL T-shirt to
> around $23 for a 3XL premium shirt. Ladies shirts, pocket Ts, and polos
> are
> available too. Because of the color photo on the back, a white or gray
> shirt
> is recommended. The design is not optimized for the "dark" T-shirts.
>
> To get a quantity discount and to save on shipping costs, group orders are

> encouraged.
>
> If you have questions, just e-mail me.
>
> 73 de Mark N9XTN
>
>
>
>

2372. Re: [GPSL] GPSL 2006 T-shirt Review

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-18 14:11:49 UTC
From: mconner1@gmail.com
Topic: 2354 Message: 2372
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2373. RE: [GPSL] GPSL 2006 T-shirt Review

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-19 00:29:11 UTC
From: Rick von Glahn
Topic: 2354 Message: 2373

Mark,

>Do you know what method Cafe Press uses for shirts?

It depends on the item. I just ordered an EOSS "Golf" shirt from them, it only was available with a heat transfer. However, most of their newer stock will allow the vendor to set either direct printing or heat transfer when creating the original and they can even leave that choice up to the customer if they want.

Cafe Press is a bit less expensive but I haven't yet discovered a way to allow the customer to modify the design of merchandise. So, it would be impossible (or perhaps impractical would be more accurate) to add personalized information to a design (callsign). But I should note that it has been a year or perhaps two since I really looked into that. I wanted to be able to offer that option to the EOSS store customers.

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of mconner1@...
Sent: Tuesday, July 18, 2006 8:12 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2006 T-shirt Review

Rick,

Do you know what method Cafe Press uses for shirts?

> So, pretty much, they (Zazzle) do a good job sending you an accurate reproduction of
> your layout.

This is true no matter what size of shirt you get. Last year I got a 2T t-shirt for my daughter and it was an accurately-scaled version of the larger shirts, and the print was quite readable even at that small scale.

> Now for the good or bad news depending on how you like your tees
> printed. This design applies ink directly to the fabric. Personally, I really
> like this technique as it lets the fabric breath making for a cooler shirt
> that isn't a perspiration trap. However, since I picked the yellow fabric, the
> photo was skewed color wise. Frankly, I like it the way it is but to each
> his/her own.
>

> The other common method of applying photographs and logos to
> fabric is to pint them on appliqués that are ironed on to the fabric using
> heat activated glue. This method yields a more detailed photograph as there
is more
> "material" to print to, whereas ink applied to fabric essentially
> takes on the weave of the fabric as its default resolution.

Our original NSTAR shirts were this way. It's nice for photos because white comes out as white, rather than the shirt color. But it does not breathe at all, which is rather uncomfortable in the summer heat. They also start looking rather ugly after several washings as the media breaks down. The Zazzle shirts do fade a bit with washing, but still look decent.

Zazzle also has a newer printing method that uses white inks on dark-colored shirts for more accurate photo rendering. I have not tried them yet, and I'm not sure the current GPSL design is suitable for dark-shirt printing (have to have transparency stuff set properly).

73 de Mark N9XTN

2374. Re: [GPSL] Flight Configurations for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-20 12:46:06 UTC
From: Troy Campbell
Topic: 2341 Message: 2374

> 1. Name of your group CIVIL AIR PATROL NEAR SPACE PROGRAM (CAPnSPACE) and NEAR SPACE VENTURES > > 2. Website for your group www.nearspaceventures.com www.capnspace.org > 3. Callsign(s) of your payload KC0WWZ-11 (primary APRS)) > > 4. A cellphone number that will be carried on the chase (for > post-recovery coordination) (816) 210-5698 > 5. Number of transmitters and their band (specific frequencies > only if > you're rock-bound or don't wish to be time-slotted with others on > the > 144.39 freq). APRS - 2 meters (using a TINYTRAK III) Simplex repeater - Prefer 147.450 MHz > > 6. Size of balloon 1500g Kaymont > 7. Approx number of helium tanks required (K or T) 1 T - may need small fraction of a 2nd > 8. Total flight weight 7-11 lbs > 9. Expected ascent/descent rate 1000-1200 fpm > 10. Projected burst altitude 92-102 kft > > 11. Special requirements/requests for the GPSL coordinator none > 12. Short description of your payload including cameras, > transmission modes, experiments, etc. FM simplex repeater expected to fly Digital still camera Digital Video Recorder

73 de Troy KC0MIC

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2375. Helium Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 02:01:02 UTC
From: Zack Clobes
Topic: 753 Message: 2375

I have the following helium orders as of last Friday:

1 - T - CNNSP
1 - T - WB8ELK
1 - T - EOSS
1 - T - Taylor Uni
1 - T - NSTAR
2 - T - CAPnSPACE

Are there any others on the way?

2376. Long-range forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 14:44:26 UTC
From: mconner1@gmail.com
Topic: 2376 Message: 2376

While 12-day forecasts aren't often all that useful, what's out there now indicates it'll be extremely warm on GPSL weekend. Temps in the 100-105 range aren't out of the question. Correspondingly, a high-pressure ridge aloft will make the winds pretty light. Current track predictions, using nominal values and a burst at 95,000', show a landing about 30 miles WNW of the launch site.

73 de Mark N9XTN

2377. Re: [GPSL] Long-range forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 18:17:42 UTC
From: Troy Campbell
Topic: 2376 Message: 2377

Mark,

Which weather station are you using for data?

Troy

mconner1@... wrote: While 12-day forecasts aren't often all that useful, what's out there now indicates it'll be extremely warm on GPSL weekend. Temps in the 100-105 range aren't out of the question. Correspondingly, a high-pressure ridge aloft will make the winds pretty light. Current track predictions, using nominal values and a burst at 95,000', show a landing about 30 miles WNW of the launch site.

73 de Mark N9XTN

Groups are talking. We´re listening. Check out the handy changes to Yahoo! Groups.

2378. Re: [GPSL] Long-range forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 18:27:02 UTC
From: mconner1@gmail.com
Topic: 2376 Message: 2378
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2379. web hosting poll

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 18:33:18 UTC
From: rahammond@charter.net
Topic: 2379 Message: 2379

I'm looking for a reasonably priced web-host. It seems I've outgrown the "free" space provided by my ISP. GoDaddy is about the best I've seen, so far.

Any comments or suggestions?

Rog KC0MWM
rahammond@...
www.cnnsp.org

2380. web hosting poll

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 18:38:16 UTC
From: rahammond@charter.net
Topic: 2379 Message: 2380

I'm looking for a reasonably priced web-host. It seems I've outgrown the "free" space provided by my ISP. GoDaddy is about the best I've seen, so far.

Any comments or suggestions?

Rog KC0MWM
rahammond@...
www.cnnsp.org

2381. Re: [GPSL] Long-range forecast for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 18:46:44 UTC
From: Troy Campbell
Topic: 2376 Message: 2381

Using GFSlr on READY and selecting 288 hours (1200 on Aug 5th) I get 14 miles, bearing 306 degrees (NW).

But as you said, a 12 day forecast isn't terribly useful.

TMC

mconner1@... wrote: HUT - Hutchinson airport, on east edge of town.

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Monday, July 24, 2006 1:25 pm
Subject: Re: [GPSL] Long-range forecast for GPSL
To: GPSL@yahoogroups.com

> Mark,
>
> Which weather station are you using for data?
>
> Troy
>
> mconner1@... wrote: While
> 12-day forecasts aren't often all that useful, what's out there
> now indicates it'll be extremely warm on GPSL weekend. Temps in
> the 100-105 range aren't out of the question. Correspondingly, a
> high-pressure ridge aloft will make the winds pretty light.
> Current track predictions, using nominal values and a burst at
> 95,000', show a landing about 30 miles WNW of the launch site.
>
> 73 de Mark N9XTN
>
>
>
>
>
>
> ---------------------------------
> Groups are talking. We´re listening. Check out the handy
> changes to Yahoo! Groups.

mconner1@... wrote: HUT - Hutchinson airport, on east edge of town.

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Monday, July 24, 2006 1:25 pm
Subject: Re: [GPSL] Long-range forecast for GPSL
To: GPSL@yahoogroups.com

> Mark,
>
> Which weather station are you using for data?
>
> Troy
>
> mconner1@... wrote: While
> 12-day forecasts aren't often all that useful, what's out there
> now indicates it'll be extremely warm on GPSL weekend. Temps in
> the 100-105 range aren't out of the question. Correspondingly, a
> high-pressure ridge aloft will make the winds pretty light.
> Current track predictions, using nominal values and a burst at
> 95,000', show a landing about 30 miles WNW of the launch site.
>
> 73 de Mark N9XTN
>
>
>
>
>
>
> ---
> Groups are talking. We´re listening. Check out the handy
> changes to Yahoo! Groups.

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

2382. Chloroprene balloon report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 19:07:21 UTC
From: mconner1@gmail.com
Topic: 2382 Message: 2382

We flew one of the 1500g chloroprene balloons from Scientific Sales last Saturday for the UNO BalloonSat flight. Neck load was approximately 11 lbs and total lift was 15-16 lbs based on gas used and what scale readings we could get in the light breeze.

The balloon neck was about 3" shorter than what we're used to seeing, and had more of a plastic feel to it. The balloon itself was also asymmetrical after filling it, like many of the Kaysams we've used in the past.

Performance was on par with a Kaymont/Totex 1500g. We got 92,720' out of it.

All things being equal, I'd rather use a Kaymont. I think their TX1000s do nearly as well as a 1500g balloon, and for about $75 rather than $125 for the SS 1500g.

73 de Mark N9XTN

2383. Re: [GPSL] web hosting poll

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 20:15:35 UTC
From: ATVQ
Topic: 2379 Message: 2383

I use gisol www.gisol.com for my www.hampubs.com for about 4 years now. Only had a few problems and they were taken care of as quick as they could (I think). Pretty reasonable. I use the Windows site.

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: <rahammond@...>
To: <gpsl@yahoogroups.com>
Sent: Monday, July 24, 2006 1:38 PM
Subject: [GPSL] web hosting poll

I'm looking for a reasonably priced web-host. It seems I've outgrown the "free" space provided by my ISP. GoDaddy is about the best I've seen, so far.

Any comments or suggestions?

Rog KC0MWM
rahammond@...
www.cnnsp.org

Yahoo! Groups Links

2384. Re: [GPSL] web hosting poll

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 21:23:05 UTC
From: Keith Kaiser
Topic: 2379 Message: 2384
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2385. Flight Configurations

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 22:01:15 UTC
From: Zack Clobes
Topic: 2385 Message: 2385

Okay, I finally have the flight configs posted that I have (or at least can find). If I've missed anyone, please contact me ASAP.

http://www.custom-ds.com/gpsl/scheduled_flights.php

Please note your group's time slot for 144.34 operation. Operation on 144.39 will not be coordinated and can be transmitted as you wish. I still have some slots open if anyone would like a second slot for faster updates.

2386. Re: [GPSL] Helium Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 22:26:26 UTC
From: PAUL VERHAGE
Topic: 753 Message: 2386

I need 1-1/2 T tanks. I'll place my orders tomorrow when I have access
to a PC at school.

Paul

>>> Zack Clobes <zclobes@...> 07/23/06 8:01 PM >>>
I have the following helium orders as of last Friday:

1 - T - CNNSP
1 - T - WB8ELK
1 - T - EOSS
1 - T - Taylor Uni
1 - T - NSTAR
2 - T - CAPnSPACE

Are there any others on the way?

Yahoo! Groups Links

2387. Re: [GPSL] Flight Configurations

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-24 23:00:29 UTC
From: Harry M
Topic: 2385 Message: 2387

I sent my info as shown below. Did it not get posted?
I don't see ORB on the flight list! ???

Harry KC5TRB

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Thursday, July 13, 2006 1:28 PM
Subject: GPSL 2006 ORB

GPSL 2006 ORB FLIGHT

1. Name of your group
Oklahoma Research Balloons

2. Website for your group
http://members.cox.net/hhm_74775/orb/

3. Callsign(s) of your payload
KC5TRB-11

4. A cellphone number ?????

5. Number of transmitters
APRS KC5TRB-11 (250mw) 144.340 (Can change/slot)
TRB FM/CW Beacon (12mw) 147.435 (Fixed)
Parott Repeater on 446.300 (Can change)

6. Size of balloon
850 grams

7. Approx number of helium tanks required (K or T)
NONE (will supply our own)

8. Total flight weight
4 pounds

9. Expected ascent/descent rate
1000 ft/min (UP)
1600 ft/min (DN)

10. Projected burst altitude
80,000 feet +

11. Special requirements/requests for the GPSL coordinator
I only anticipate myself and my son for support and would like to have some

volunteers to help on the launch and chase & recovery. You should have mobile APRS tracking capability and DF equipment for the C&R.

12. Short description of your payloads
#1 - APRS KC5TRB-11 (250mw)
TRB FM/CW Beacon (12mw)
#2 - Parott Repeater
#3 - 2 Digital Pencams (hor/ver)

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2388. More forecast tracks

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 14:06:25 UTC
From: mconner1@gmail.com
Topic: 2388 Message: 2388
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2389. Re: [GPSL] Flight Configurations

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 16:04:28 UTC
From: Zack Clobes
Topic: 2385 Message: 2389

Sorry, I must have missed yours. It's on now.

Zack

Harry M wrote:
>
>
> I sent my info as shown below. Did it not get posted?
> I don't see ORB on the flight list! ???
>
> Harry KC5TRB
>
> -----
>
> ----- Original Message -----
> *From:* Harry M <mailto:hhm_74115@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Thursday, July 13, 2006 1:28 PM
> *Subject:* GPSL 2006 ORB
>
>
> GPSL 2006 ORB FLIGHT
>
> 1. Name of your group
> Oklahoma Research Balloons
>
> 2. Website for your group
> http://members.cox.net/hhm_74775/orb/
>
> 3. Callsign(s) of your payload
> KC5TRB-11
>
> 4. A cellphone number ?????
>
> 5. Number of transmitters
> APRS KC5TRB-11 (250mw) 144.340 (Can change/slot)
> TRB FM/CW Beacon (12mw) 147.435 (Fixed)
> Parott Repeater on 446.300 (Can change)
>
> 6. Size of balloon
> 850 grams
>
> 7. Approx number of helium tanks required (K or T)
> NONE (will supply our own)
>

> 8. Total flight weight
> 4 pounds
>
> 9. Expected ascent/descent rate
> 1000 ft/min (UP)
> 1600 ft/min (DN)
>
> 10. Projected burst altitude
> 80,000 feet +
>
> 11. Special requirements/requests for the GPSL coordinator
> I only anticipate myself and my son for support and would like to
> have some
> volunteers to help on the launch and chase & recovery. You should have
> mobile
> APRS tracking capability and DF equipment for the C&R.
>
> 12. Short description of your payloads
> #1 - APRS KC5TRB-11 (250mw)
> TRB FM/CW Beacon (12mw)
> #2 - Parott Repeater
> #3 - 2 Digital Pencams (hor/ver)
>
>
>
>
> -----
> Harry - KC5TRB - Tulsa
> Oklahoma Research Balloons
> http://members.cox.net/hhm_74775/orb/
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

2390. Hotel rooms at the Grand Prairie

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 16:10:07 UTC
From: Zack Clobes
Topic: 2390 Message: 2390

They're checking for sure, but it appears that there are several rooms still available at the Grand Prairie if you want to join the rest of the group, or if you haven't already made reservations.

As a re-cap, the hotel has:
* Indoor water park
* Wireless Internet
* Symposium will be held on-site
* Restaurant
* Video arcade
* Pop/candy machines
* Easy access (near the intersection of 11th and K-61)

2391. Re: [GPSL] Flight Configurations

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 16:05:45 UTC
From: Mike Manes
Topic: 2385 Message: 2391

HI Zack,
The EOSS-111 (GPSL06) DF/cutter beacon will be on 145.600 MHz.
73 de Mike W5VSI

Zack Clobes wrote:
> Sorry, I must have missed yours. It's on now.
>
> Zack
>
> Harry M wrote:
>>
>>
>> I sent my info as shown below. Did it not get posted?
>> I don't see ORB on the flight list! ???
>>
>> Harry KC5TRB
>>
>> -----
>>
>> ----- Original Message -----
>> *From:* Harry M <mailto:hhm_74115@...>
>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> *Sent:* Thursday, July 13, 2006 1:28 PM
>> *Subject:* GPSL 2006 ORB
>>
>>
>> GPSL 2006 ORB FLIGHT
>>
>> 1. Name of your group
>> Oklahoma Research Balloons
>>
>> 2. Website for your group
>> http://members.cox.net/hhm_74775/orb/
>>
>> 3. Callsign(s) of your payload
>> KC5TRB-11
>>
>> 4. A cellphone number ?????
>>
>> 5. Number of transmitters
>> APRS KC5TRB-11 (250mw) 144.340 (Can change/slot)
>> TRB FM/CW Beacon (12mw) 147.435 (Fixed)
>> Parott Repeater on 446.300 (Can change)
>>
>> 6. Size of balloon

>> 850 grams
>>
>> 7. Approx number of helium tanks required (K or T)
>> NONE (will supply our own)
>>
>> 8. Total flight weight
>> 4 pounds
>>
>> 9. Expected ascent/descent rate
>> 1000 ft/min (UP)
>> 1600 ft/min (DN)
>>
>> 10. Projected burst altitude
>> 80,000 feet +
>>
>> 11. Special requirements/requests for the GPSL coordinator
>> I only anticipate myself and my son for support and would like to
>> have some
>> volunteers to help on the launch and chase & recovery. You should have
>> mobile
>> APRS tracking capability and DF equipment for the C&R.
>>
>> 12. Short description of your payloads
>> #1 - APRS KC5TRB-11 (250mw)
>> TRB FM/CW Beacon (12mw)
>> #2 - Parott Repeater
>> #3 - 2 Digital Pencams (hor/ver)
>>
>>
>>
>>
>> -----
>> Harry - KC5TRB - Tulsa
>> Oklahoma Research Balloons
>> http://members.cox.net/hhm_74775/orb/
>> http://groups.yahoo.com/group/oklahoma_research_balloons/join
>> -----
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2392. Re: [GPSL] More forecast tracks

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 16:38:28 UTC
From: Mike Manes
Topic: 2388 Message: 2392

Hi Mark,

What ascent/descent rates and burst altitude didja use? Looks like a
high burst could bring the landing site down into S. Hutch. Of course,
this is a very low confidence forecast, but not all that unusual for
a summer flight - although I don't recall having seen a "twisted Zorro"
flight before, either.

73 de Mike W5VSI

mconner1@... wrote:
> Here's the GPSL track forecast based on this morning's 06Z GFS run. One of the more unusual ones I've seen. We could all meet for breakfast somewhere and walk to the landing when we're done almost.
>
> Just shows the variability (and near-uselessness) in long-range forecasts.
>
> (in case the attachment doesn't come through, the track just loops around the launch site a couple of times and the landing is about 3 miles south)
>
> 73 de Mark N9XTN
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>
> ---

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2393. GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 17:12:33 UTC
From: Harry M
Topic: 2393 Message: 2393

I am using a TT-III and if I put 31 sec for a time-slot and read the config,
it reads 31
sec's, but when I put in anything over 31 sec and read the config the time
is " -65504 ".
If I had a time-slot of more than 31 sec, how is that accomplished?

What Digi Path will be best on 144.340 for stand-alone APRS?
Will there be an Igate?

Thanks!
Harry KC5TRB

2394. Change of Call Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 17:30:50 UTC
From: Troy Campbell
Topic: 2390 Message: 2394

Zack,

We just got our 'Near Space Ventures' so we'll be using that.

Please change KC0WWZ to W0NSV.

Thanks!

Troy

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2395. GPSL Cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 17:51:22 UTC
From: Harry M
Topic: 2395 Message: 2395

I will be flying a DTMF cutdown at GPSL.
To inadvertantly cause another cutdown to activate
please email me direct with your DTMF sequence
and I will share mine with you.

It might be a good idea to email Zack direct
also so he can make note of all the commands
that will be used.

Harry KC5TRB

2396. Re: [GPSL] More forecast tracks

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 18:21:09 UTC
From: mconner1@gmail.com
Topic: 2388 Message: 2396
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2397. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 18:29:13 UTC
From: mconner1@gmail.com
Topic: 2393 Message: 2397
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2398. Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 20:00:53 UTC
From: PAUL VERHAGE
Topic: 2388 Message: 2398

I'll get in town on Thursday. Is there anything I can do to help out?
I'll also pay for my helium when I get to town. What time will the
helium run be made?

Paul

2399. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 20:07:22 UTC
From: Harry M
Topic: 2393 Message: 2399

Thanks Mark, I'll give 32 a try later!

Is it possible to have someone setup a radio to cross-freq from .34 to .39? I do that here in Tulsa when WW5WOW doesn't provide the Igate. Granted there are collisions, but not that many and it wouild only be for a couple hours. When WW5WOW provides the Igate he sets up UiView as an Igate just for our flight. It sure would be nice if someone would do that. There will be a lot of listeners watching for the flights.

Harry

2400. Re: [GPSL] Hotel rooms at the Grand Prairie

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 23:01:01 UTC
From: Zack Clobes
Topic: 2390 Message: 2400

There should be two rooms available for the weekend.

mconner@... wrote:
>
> Zack,
>
> I got way behind on reservations and when I checked online they said
> they were full. If they do have some rooms, let us know and we'll
> change from the Hampton Inn to Grand Prarie.
>
> Wayne,
>
> If we can switch, that will save us about $15/night and some driving.
>
> - Mark
>
> ----- Original Message -----
> From: Zack Clobes <zclobes@...>
> Date: Tuesday, July 25, 2006 11:15 am
> Subject: [GPSL] Hotel rooms at the Grand Prairie
> To: Group GPSL <GPSL@yahoogroups.com>
>
> > They're checking for sure, but it appears that there are several
> > rooms
> > still available at the Grand Prairie if you want to join the rest
> > of the
> > group, or if you haven't already made reservations.
> > >
> > As a re-cap, the hotel has:
> > * Indoor water park
> > * Wireless Internet
> > * Symposium will be held on-site
> > * Restaurant
> > * Video arcade
> > * Pop/candy machines
> > * Easy access (near the intersection of 11th and K-61)
> > >
> > >
>

2401. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-25 23:24:29 UTC
From: Nick Hanks
Topic: 2393 Message: 2401

Zack,

I've talked to some of the EOSS folks, and we heartily endorse Harry's request. An I-gate for the balloons on Sat. would be just great. If there isn't a cross-freq capability, perhaps one of the local I-gates could just switch over to 144.34 MHz during the flight. As Harry said should only need to do that for a couple of hours. Number of folks here in the Denver area (and two in Seattle) would very much like to monitor the GPSL flights via the Internet.

Thank you.

Nick
N?LP

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Tuesday, July 25, 2006 2:07 PM
Subject: Re: [GPSL] GPSL Digi & Igate

Thanks Mark, I'll give 32 a try later!

Is it possible to have someone setup a radio to cross-freq from .34 to .39? I do that here in Tulsa when WW5WOW doesn't provide the Igate. Granted there are collisions, but not that many and it wouild only be for a couple hours. When WW5WOW provides the Igate he sets up UiView as an Igate just for our flight. It sure would be nice if someone would do that. There will be a lot of listeners watching for the flights.

Harry

2402. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-26 00:01:25 UTC
From: Harry M
Topic: 2393 Message: 2402

TT Slot-Time

I have "Auto Xmit Delay" set to 500ms and "Quiet Time"
set to 526ms. I changed the slot value to 35 and it
beacons at 3 and 33. Set the Slot to 31 and it beacons
at 32 only. I got the latest GUI and get the same results.
Looks like 31 is the max it will allow.

Harry KC5TRB

2403. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-26 00:49:16 UTC
From: Mark Conner
Topic: 2393 Message: 2403
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2404. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-26 01:20:06 UTC
From: Zack Clobes
Topic: 2393 Message: 2404

Last time I had an Igate running at my house. This time around, I'm
going to try to have a couple of IGates around the area.

Zack

Nick Hanks wrote:
>
> Zack,
>
> I've talked to some of the EOSS folks, and we heartily endorse Harry's
> request. An I-gate for the balloons on Sat. would be just great. If
> there isn't a cross-freq capability, perhaps one of the local I-gates
> could just switch over to 144.34 MHz during the flight. As Harry said
> should only need to do that for a couple of hours. Number of folks
> here in the Denver area (and two in Seattle) would very much like to
> monitor the GPSL flights via the Internet.
>
> Thank you.
>
> Nick
> N?LP
>
>
>
> ----- Original Message -----
> *From:* Harry M <mailto:hhm_74115@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, July 25, 2006 2:07 PM
> *Subject:* Re: [GPSL] GPSL Digi & Igate
>
>
> Thanks Mark, I'll give 32 a try later!
>
> -----
>
> Is it possible to have someone setup a radio to
> cross-freq from .34 to .39? I do that here in
> Tulsa when WW5WOW doesn't provide the Igate.
> Granted there are collisions, but not that many
> and it wouild only be for a couple hours. When
> WW5WOW provides the Igate he sets up UiView as
> an Igate just for our flight. It sure would be
> nice if someone would do that. There will be a
> lot of listeners watching for the flights.
>

> Harry
>
>

2405. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-26 02:59:59 UTC
From: Nick Hanks
Topic: 2393 Message: 2405

Great!

Our folks will be pleased.

Thank you.

Nick

----- Original Message -----
From: Zack Clobes
To: GPSL@yahoogroups.com
Sent: Tuesday, July 25, 2006 7:20 PM
Subject: Re: [GPSL] GPSL Digi & Igate

Last time I had an Igate running at my house. This time around, I'm going
to try to have a couple of IGates around the area.

Zack

Nick Hanks wrote:

Zack,

I've talked to some of the EOSS folks, and we heartily endorse Harry's
request. An I-gate for the balloons on Sat. would be just great. If there
isn't a cross-freq capability, perhaps one of the local I-gates could just
switch over to 144.34 MHz during the flight. As Harry said should only need
to do that for a couple of hours. Number of folks here in the Denver area
(and two in Seattle) would very much like to monitor the GPSL flights via
the Internet.

Thank you.

Nick
N?LP

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Tuesday, July 25, 2006 2:07 PM
Subject: Re: [GPSL] GPSL Digi & Igate

Thanks Mark, I'll give 32 a try later!

Is it possible to have someone setup a radio to
cross-freq from .34 to .39? I do that here in
Tulsa when WW5WOW doesn't provide the Igate.

Granted there are collisions, but not that many and it wouild only be for a couple hours. When WW5WOW provides the Igate he sets up UiView as an Igate just for our flight. It sure would be nice if someone would do that. There will be a lot of listeners watching for the flights.

Harry

2406. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-26 22:26:40 UTC
From: Harry M
Topic: 2393 Message: 2406

Thanks for the Igates Zack, greatly appreciated!

Harry

2407. Re: [GPSL] GPSL Digi & Igate

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-27 01:11:01 UTC
From: Harry M
Topic: 2393 Message: 2407

Mark,

I had the beacon rate set at 30 sec.
I changed it to 60 and tried a slot
of 35 & 45 then 32 and all is well!
Thanks!

Harry KC5TRB

> What is your 'auto transmit rate' set to?
> Should be 60 sec in this case.
> Try that and see if you can set it to something >31.

2408. NSTAR unable to participate in GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-27 03:04:13 UTC
From: Mark Conner
Topic: 2408 Message: 2408
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2409. Re: [GPSL] Change of Call Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 01:42:18 UTC
From: Zack Clobes
Topic: 2390 Message: 2409

Done.

Troy Campbell wrote:
>
> Zack,
>
> We just got our 'Near Space Ventures' so we'll be using that.
>
> Please change KC0WWZ to W0NSV.
>
> Thanks!
>
> Troy
>
> ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls
> <http://us.rd.yahoo.com/mail_us/taglines/postman1/*http://us.rd.yahoo.com/evt=39663/*http://voice.yahoo.com>
> to the US (and 30+ countries) for 2?/min or less.
>

2410. www.cnnsp.org has moved

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 03:48:34 UTC
From: Roger Hammond
Topic: 2410 Message: 2410

If anyone is still using www.webpages.charter.net/kc0mwm/home to access the Central Nebraska Near Space Program's website, it will no longer be updated.

www.cnnsp.org will take you to the most current offerings.

I will eventually delete the pages at the old address.

Thanks....

Rog KC0MWM

2411. RE: [GPSL] NSTAR unable to participate in GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 05:05:03 UTC
From: Marty Griffin
Topic: 2408 Message: 2411

Hey Mark,

Sorry you won't make it. EOSS sends our condolences to you and your family.

Marty, WA0GEH, EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Wednesday, July 26, 2006 9:04 PM
To: GPSL@yahoogroups.com; KNSP List
Subject: [GPSL] NSTAR unable to participate in GPSL 2006

Due to an out-of-state funeral I'll be attending early next week, I will not be coming to this year's GPSL. There just wouldn't be enough time to make the necessary preparations between now and next Thursday with a five-day trip wedged in there. I hope to be watching vicariously by the internet and maybe even RF.

Hope to see everyone at GPSL 2007.

73 de Mark N9XTN

2412. Re: [GPSL] NSTAR unable to participate in GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 10:43:09 UTC
From: Mike Manes
Topic: 2408 Message: 2412

My condolences, Mark. And we'll sure miss ya at GPSL 06.
73 de Mike W5VSI, EOSS

Mark Conner wrote:
> Due to an out-of-state funeral I'll be attending early next week, I will
> not be coming to this year's GPSL. There just wouldn't be enough time
> to make the necessary preparations between now and next Thursday with a
> five-day trip wedged in there. I hope to be watching vicariously by the
> internet and maybe even RF.
>
> Hope to see everyone at GPSL 2007.
>
> 73 de Mark N9XTN
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2413. Massive CubeSat launch fails

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 15:42:58 UTC
From: Joseph Lynch
Topic: 2413 Message: 2413

FYI

SB SPACE @ ARL $ARLS005
ARLS005 Massive CubeSat launch fails

ZCZC AS05
QST de W1AW
Space Bulletin 005 ARLS005
From ARRL Headquarters
Newington, CT July 27, 2006
To all radio amateurs

SB SPACE ARL ARLS005
ARLS005 Massive CubeSat launch fails

An attempt to launch 15 CubeSats from 11 universities and one private company failed July 26. Fourteen of the CubeSats, now lost, carried Amateur Radio transmit-only payloads.

The Dnepr-1LV rocket lifted off from Russia's Baikonur Cosmodrome in Kazakhstan at 1943 UTC on July 26. Space Launch Report cites payload users as reporting that the mission went awry sometime after first-stage separation. An Interfax, report said an emergency shutdown of the rocket's main engine initiated 86 seconds after launch, shortly before the first stage would have completed its burn. Gazeta.kz reported the vehicle fell to Earth almost 190 km from the launch site.

Originally set for June 28, the launch had been postponed until July 26. The CubeSat project was a collaboration between California Polytechnic State University-San Luis Obispo and Stanford University's Space Systems Development Laboratory. All of the CubeSats were designed and built by students at various universities in the US and elsewhere in the world.

Thirteen of the satellites were to have downlinks in the Amateur Radio satellite allocation between 435 and 438 MHz, and one was to operate on 145.980 MHz. None of the spacecraft carried a transponder. Transmitter power outputs ranged from 10 mW to 2 W.

According to Satellite Launch Report, the original Dnepr launcher was replaced by a different one in June after a problem was detected in the original vehicle's digital flight control system. The Dnepr vehicle is a repurposed SS-18 "Satan" three-stage intercontinental ballistic missile.
NNNN
/EX

2414. GPSL forecast

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 17:22:15 UTC
From: mconner1@gmail.com
Topic: 2414 Message: 2414

The longer-range models have changed their tune on the weather around Hutchinson late next week. Instead of being very hot, a nice break is expected around mid-week. A relatively wet period is expected from Wednesday to Friday, with cooler air finally pushing the rain to the south later Friday. Saturday morning should be near or slightly below seasonable temperatures (60s) with surface winds from the east at 5-10 mph.

Latest track forecast indicates most flights will end up southeast of the launch site about 20 miles distant.

73 de Mark N9XTN

2415. Re: [GPSL] GPSL forecast

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-28 20:23:39 UTC
From: Harry M
Topic: 2414 Message: 2415

Chris (EOSS) did you hear that?
Better bring your boots and RV flag!

:)

73 Harry KC5TRB

> ... A relatively wet period is expected from Wednesday to Friday, ...

2416. Re: [GPSL] GPSL forecast

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 00:55:44 UTC
From: Chris Krengel
Topic: 2414 Message: 2416

I got the boots from two years ago, and Bengi has a
new pair of socks to loose in the corn fields!!!!
"MARKO!".................POLO!!
Chris

--- Harry M <hhm_74115@...> wrote:

>
> Chris (EOSS) did you hear that?
> Better bring your boots and RV flag!
>
> :)
>
> 73 Harry KC5TRB
>
> -----
>
> > ... A relatively wet period is expected from
> Wednesday to Friday, ...
>
>
>

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2417. Re: [GPSL] GPSL forecast

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 01:38:27 UTC
From: Harry M
Topic: 2414 Message: 2417

"Thia-hilaud a qui forheur!"

Looking forward to seeing you all again!

73 Harry

> I got the boots from two years ago, and Bengi has a
> new pair of socks to loose in the corn fields!!!!
> "MARKO!".................POLO!!

2418. Electronics Scale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 16:23:21 UTC
From: PAUL VERHAGE
Topic: 2418 Message: 2418

Hey Mark, can you check your stuff for a digital scale? I can't find mine at home and suspect I left it in Omaha.

Paul

2419. Helping Thursday

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 16:25:00 UTC
From: PAUL VERHAGE
Topic: 2419 Message: 2419

Zack, I'mleaving tomorrow and don't know if I'll have access to email.
Can you call me and give me your number? Where do you want to meet on
Thursday?

Paul
208 631-7162

2420. ** Paging Jeff Dailey **

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 22:14:13 UTC
From: Zack Clobes
Topic: 2420 Message: 2420

I have Jeff down to do a presentation on Friday, but can't get a hold of him at the address I have. If anyone has any contact information for him, please pass it along.

Thanks,
Zack Clobes, W0ZC

2421. Re: [GPSL] ** Paging Jeff Dailey **

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 22:24:07 UTC
From: wb8elk@aol.com
Topic: 2420 Message: 2421

Hi Zack...I talked to Jeff in person at their last balloon flight last week (Monday) while I was visiting Taylor U in Indiana....I have his contact info in my office and will email it to you on Tuesday when I get back into work.

- Bill WB8ELK

2422. RE: [GPSL] ** Paging Jeff Dailey **

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-29 22:29:54 UTC
From: Holmes, Will
Topic: 2420 Message: 2422

I just sent it to your email, Zack Clobes [zclobes@...]

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Saturday, July 29, 2006 6:14 PM
To: Group GPSL
Subject: [GPSL] ** Paging Jeff Dailey **

I have Jeff down to do a presentation on Friday, but can't get a hold of

him at the address I have. If anyone has any contact information for him, please pass it along.

Thanks,
Zack Clobes, W0ZC

2423. CubeSats lost in Dnepr 1LV rocket abort

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-30 03:57:51 UTC
From: Mike Manes
Topic: 2423 Message: 2423

Hi,

The following clip from the ARRL Letter V25/#30 of 7/28 illustrates why high altitude balloons are gaining favor for student satellites. It's likely that at least one of these cubesats had been tested on an ARHAB flight.

73 de Mike W5VSI, EOSS

--- clip ---

==>MASSIVE CUBESAT LAUNCH FAILS

A much-heralded attempt to launch 15 CubeSats built by 11 universities and one private company failed this week. Fourteen of the tiny spacecraft carried Amateur Radio transmit-only payloads.

The Dnepr-1LV rocket lifted off from Russia's Baikonur Cosmodrome in Kazakhstan at 1943 UTC on July 26. Various accounts indicate that the mission went awry less than two minutes after liftoff when the first stage failed to separate on time, causing an emergency shutdown of the rocket's main engine. Reports vary on how far downrange -- and just where -- the vehicle fell. One said the Dnepr dropped to Earth some 15 km from the launch site, while another put the distance at 190 km. A third account said the Dnepr dropped into the Indian Ocean.

Originally set for June 28, the launch had been postponed until July 26. The CubeSat project was a collaboration between California Polytechnic State University-San Luis Obispo and Stanford University's Space Systems Development Laboratory. All of the CubeSats were designed and built by students at various universities in the US and elsewhere in the world. The CubeSat roster included AeroCube-1, CP-1, CP-2, ICE Cube-1, ICE Cube-2, ION, HAUSAT-1, KUTESat, MEROPE, nCube-1, RINCON, SACRED, SEEDS, PiCPoT and Voyager.

Thirteen of the satellites were to have downlinks in the Amateur Radio satellite allocation between 435 and 438 MHz, and one was to operate on 145.980 MHz. None of the spacecraft carried a transponder. Transmitter power outputs ranged from 10 mW to 2 W.

The Dnepr was the second to launch this month from Baikonur's Area 109. Other payloads included BelKA, the first Belarusian satellite, and three other microsatellites. According to Satellite Launch Report, the original Dnepr launcher was replaced by a different one in June after a problem was detected in the original vehicle's digital flight control system.

The Dnepr launch failure was said to be the first in seven orbital launch attempts. The Dnepr vehicle is a repurposed SS-18 "Satan" three-stage intercontinental ballistic missile, originally designed in the 1980s to compete with the US Peacekeeper missile. The START 2 treaty allowed up to 150 of the missiles to be converted for use as space launchers.

The Russian space agency has convened a special commission to look into the cause of the malfunction.

--

Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

2424. 2006 GPSL Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-30 13:04:44 UTC
From: Floyd Benjie Campbell
Topic: 2424 Message: 2424

Harry, we have got to stop meeting in these corn fields. Especially if there is over six inches of mud in the corn rows. Once was enough. I not only have new socks but the old ones that I didn't loose last time, I have washed them and they are clean and ready to go. I am also bringing the same boots. Keep it from raining at least. "NO RAIN AFTER WEDNESDAY", right, knowing the midwest that could be a problem. What we have to do is convince Mark with Helo 1 to come one of these years and suspend you from the chopper to pick up the payloads without touching the gound. That involkes a pretty picture, doesn't it?
Harry, you should have been on EOSS 109 and 110. We just flew them yesterday. Boy, did we land in some rough country. You wouldn't think that the priarie would have four wheel roads, but we sure did yesterday. Pictures on the www.eoss.org web page soon. The group here is planning on leaving on Thursday morning, August 3rd around 7:00 am and arriving in the Hutch area around 3:00 to 4:30 pm, depending on the Kansas highway pratrol. Larry Noble, won't be with us this year, so no "Reciprocity" tickets are available. The full force of the law will be apon us. See you at the hotel Harry on Thursday afternoon. We all plan to attend the dinner Thursday night. There are at least five confirmed vehicle/teams going from Denver and and John and wife from Texas. See everyone soon. Benjie W0CBH.

2425. Re: [GPSL] 2006 GPSL Landing Sites

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-30 18:39:19 UTC
From: Harry M
Topic: 2424 Message: 2425

Hi Benji,

Well, here's what the NWS says for Hutch right now (Sun).
We can deal with the mud. At least the temp's will be below what they were last week!

Wednesday Night: A slight chance of showers and thunderstorms. Partly cloudy, with a low around 68.
Thursday: A slight chance of showers and thunderstorms. Partly cloudy, with a high near 90.
Thursday Night: Partly cloudy, with a low around 68.
Friday: Partly cloudy, with a high near 91.
Friday Night: Partly cloudy, with a low around 71.
Saturday: Partly cloudy, with a high near 94.

I hope you all have a great trip from Co. FLY LOW!
I will be leaving here around 1pm Thur. Will arrive
Hutch between 4-5pm. I will have APRS running.

See you all at the hotel and dinner.

73 Harry

2426. Re: [GPSL] ** Paging Jeff Dailey **

Yahoo group: GPSL (2002 — 2008)
Date: 2006-07-31 11:54:42 UTC
From: Jeff Dailey
Topic: 2420 Message: 2426

Hello Zack

We will be flying in on Thursday and I will be
speaking on Friday.

Thank You

Jeff Dailey
Taylor U.
BalloonSAT Program

--- Zack Clobes <zclobes@...> wrote:

> I have Jeff down to do a presentation on Friday, but
> can't get a hold of
> him at the address I have. If anyone has any
> contact information for
> him, please pass it along.
>
> Thanks,
> Zack Clobes, W0ZC
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2427. Houlihan's???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-01 02:44:45 UTC
From: Roger Hammond
Topic: 2427 Message: 2427

Zack,

I was just looking at the Grand Prairie's website...
What happened to Houlihan's? Did it get replace by the Grand Slam Sports Cafe?

Rog - KC0MWM
www.cnnsp.org

2428. Re: [GPSL] Houlihan's???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-01 03:06:20 UTC
From: Zack Clobes
Topic: 2427 Message: 2428

Yes, Houlihan's is no more, but I checked out the Grand Slam Sports Bar & Grill tonight, and other than some first-night rough edges, they were in pretty good shape. The food is just as good (albeit maybe not quite as fancy), but seems to be cheaper.

Unfortunately, they still have Coke products.

Zack

Roger Hammond wrote:
>
> Zack,
>
> I was just looking at the Grand Prairie's website...
> What happened to Houlihan's? Did it get replace by the Grand Slam
> Sports Cafe?
>
> Rog - KC0MWM
> www.cnnsp.org <http://www.cnnsp.org>
>
>

2429. ARHAB flights 2006 as of 01Aug06

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-01 16:22:48 UTC
From: Ralph Wallio, W0RPK
Topic: 2429 Message: 2429

ARHAB flights 2006

001] 07Jan06 VWS-3 VA
002] 08Jan06 SKYLAB KS
003] 21Jan06 UX-6 TN Univ of Tennessee
004] 11Feb06 ANSR-29 AZ
005] 14Feb06 HABET-L85 IA Iowa State Univ
006] 18Feb06 AFTI FRANCE
007] 24Feb06 RED-1 ME
008] 25Feb06 UX-7 TN Univ of Tennessee
009] 25Feb06 EOSS-101 CO
010] 04Mar06 HIBALL-8 AL
011] 06Mar06 SOLAR MI Grosse Pointe Academy
012] 18Mar06 EOS-1 NC
013] 01Apr06 CNNSP-05 NE
014] 01Apr06 CIBE-LF2 IA
015] 01Apr06 CNS-008 MO
016] 08Apr06 EOSS-102 CO
017] 08Apr06 CONHAB ND Concordia College
018] 09Apr06 UAH NSSTC AL Univ of Alabama-Huntsville
019] 09Apr06 TIGERCUB SC Clemson Univ
020] 15Apr06 UAH NSSTC AL Univ of Alabama-Huntsville
021] 22Apr06 ANSR-30 AZ
022] 22Apr06 EOSS-103 CO
023] 22Apr06 EOSS-104 CO
024] 22Apr06 TABEL-2 TN
025] 22Apr06 GRC POST632 2006A OH
026] 22Apr06 WV-4 WV
027] 22Apr06 UAH SPACE CLUB AL Univ of Alabama-Huntsville
028] 27Apr06 TAMU-1 TX Texas A&M Univ
029] 29Apr06 K5IS TX
030] 06May06 NNU ID Northwest Nazarene Univ
031] 07May06 N0BKB/N0ORU 2006A IA
032] 08May06 RED-2 ME
033] 12May06 ARALA FRANCE
034] 13May06 PRSGC-5 PR Puetro Rico Space Grant
035] 20May06 NS-7 MD Maryland Space Grant
036] 20May06 ORB-20 OK
037] 23May06 ACES-4 TX Louisiana State Univ
038] 24May06 ACES-5 TX Louisiana State Univ
039] 26May06 HABET-L97 IA Iowa State Univ
040] 28May06 FITS2006 WA
041] 03Jun06 ANSR-31 AZ
042] 03Jun06 CP-01 POLAND
043] 08Jun06 NS-8 MD Maryland Space Grant

044] 10Jun06 BLANCHARD-1 PA PA Leadership Charter School
045] 10Jun06 TAYLOR IN Taylor Univ
046] 10Jun06 UX-8 TN Univ of Tennessee
047] 11Jun06 NSTAR-06A IA
048] 17Jun06 EOSS-105 CO
049] 17Jun06 EOSS-106 CO
050] 24Jun06 CNS-010 KS
051] 24Jun06 TAYLOR IN Taylor Univ
052] 01Jul06 PRSGC-06 PR Puetro Rico Space Grant
053] 01Jul06 TABEL-3 TN
054] 01Jul06 CNNSP-06 NE
054] 08Jul06 MSGC/PRSGC MA Massachusetts Space Grant
055] 08Jul06 N0BKB/N0ORU 2006B IA
056] 08Jul06 N0BKB/N0ORU 2006C IA
057] 15Jul06 EOSS-107 CO
058] 15Jul06 EOSS-108 CO
059] 15Jul06 TVNSP TV06A ID
060] 16Jul06 N0BKB-N0ORU 2006D IA
061] 16Jul06 N0BKB/N0ORU 2006E IA
062] 22Jul06 KD4STH (UNO) NE
063] 22Jul06 CNS-011 MO
064] 22Jul06 EOS-2 ME
065] 23Jul06 TABEL-4 TN
066] 29Jul06 EOSS-109 CO
067] 29Jul06 EOSS-110 CO
068] 30Jul06 N0BKB/N0ORU 2006F IA
069] 30Jul06 N0BKB/N0ORU 2006G IA
070] 01Aug06 MSGC NS-9 MD Maryland Space Grant

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2430. Conference Proceedings

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-02 02:20:46 UTC
From: Scott
Topic: 2430 Message: 2430

Is anybody thinking about assembling the slide presentations /
handouts etc and posting them to the Yahoo group or burning them to CD ?

I'd love to sit in on these discussions but the work schedule doesn't
seem to be cooperating.

It would be nice to get ahold of the "proceedings" and stay in the
loop on balloong developments. I'm speaking for myself here, but I
think a CD would be something folks would pay a nominal fee for.
Sorta like how AMSAT or Project SETI maintains documentation of their
git-togethers.

73
Scott
KD5NJR

2431. Package for Harry KC5TRB and Paul KD4STH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-03 01:23:40 UTC
From: Mark Conner
Topic: 2431 Message: 2431
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2432. Re: [GPSL] Package for Harry KC5TRB and Paul KD4STH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-03 02:33:13 UTC
From: Harry M
Topic: 2431 Message: 2432

I got the message Mark.
I will arrive Thur. around 4-5pm.
I will give Paul his scale.

Thanks & 73
Harry KC5TRB

> Someone please let Harry KC5TRB know there should be a FedEx package delivered to the Grand Prarie Hotel for
> him by NLT 5pm Thursday. Included in that package is Paul's fish scale, which was accidentally put into my balloon
> equipment at the UNO launch here last Saturday.

2433. GPSL2006 flights are aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-05 14:09:57 UTC
From: Ralph Wallio, W0RPK
Topic: 2433 Message: 2433

See
http://www.findu.com/cgi-bin/find.cgi?call=W0NSV-11,ae0ss-11,kd4sth-9,kb9qls-11,kc5trb-11,kc0mwm-11,4sth
for the entire group.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2434. Re: GPSL2006 flights are aloft #2

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-05 14:27:37 UTC
From: Ralph Wallio, W0RPK
Topic: 2434 Message: 2434

WB8ELK-12 is now aloft with the group. See
http://www.findu.com/cgi-bin/find.cgi?call=W0NSV-11,ae0ss-11,kd4sth-9,kb9qls-11,kc5trb-11,
kc0mwm-11,4sth,wb8elk-12

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2435. GPSL2006 packets received near Des Moines

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-05 16:08:49 UTC
From: Ralph Wallio, W0RPK
Topic: 2435 Message: 2435

```
Multiple packets received from W0NSV-11 and AE0SS-11. None from other payloads.
Direct reception only - digipeated packets have been removed.
Line-of-sight distance roughly 325mi.
Lowest altitude for a received packet: 73kft for W0NSV-11 79kft for AE0SS-11.
(Note shorter packet received 1-min earlier from AE0SS-11.)

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

GPSL2006 144.340
DATE/TIME STAMPS set to WWV +/- 1-sec

05-Aug-06 14:53:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#107,086,126,073,137,139,00111010

05-Aug-06 14:54:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/145400h3824.66N/09807.75WO298/028/A=078620

05-Aug-06 14:54:15 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#108,086,126,072,137,139,00111010

05-Aug-06 14:54:17 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,145410,3824.8386,N,09808.7007,W,1,10,0.78,24197.8,M,-26.4,M,,*46

05-Aug-06 14:55:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#109,086,126,072,137,139,00111010

05-Aug-06 14:56:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/145600h3824.99N/09808.75WO306/031/A=080306

05-Aug-06 14:58:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/145800h3825.19N/09809.64WO240/024/A=082265

05-Aug-06 14:58:17 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,145810,3825.1234,N,09810.6496,W,1,10,0.78,25240.4,M,-26.4,M,,*4A

05-Aug-06 14:59:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/145900h3825.04N/09810.22WO272/021/A=083206

05-Aug-06 14:59:04 W0NSV-11*>WIDE2-1>APT311 <UI>:
>CAPnSPACE/NearSpaceVntrs CNS012

05-Aug-06 14:59:16 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,145908,A,3825.1096,N,09811.1616,W,26.091,264.9,050806,5.8,E*55
```

05-Aug-06 14:59:16 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,145910,3825.1088,N,09811.1805,W,1,11,0.74,25489.8,M,-26.4,M,,*4C

05-Aug-06 15:00:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#114,086,126,070,138,140,00111010

05-Aug-06 15:00:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,2,05,7,14,7,19,7,25,7,09,7,11,7,30,7*42

05-Aug-06 15:00:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150008,A,3824.9812,N,09811.7232,W,27.917,265.8,050806,5.8,E*57

05-Aug-06 15:00:17 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150010,3824.9811,N,09811.7438,W,1,10,0.74,25724.1,M,-26.4,M,,*48

05-Aug-06 15:01:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150100h3824.89N/09811.31WO267/030/A=084945

05-Aug-06 15:01:17 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150110,3824.8845,N,09812.2968,W,1,11,0.74,25978.1,M,-26.4,M,,*41

05-Aug-06 15:02:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#116,086,126,070,138,141,00111010

05-Aug-06 15:02:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,6,05,7,14,7,19,7,25,7,09,7,11,7,30,7*46

05-Aug-06 15:02:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150208,A,3824.7455,N,09812.8118,W,27.161,246.6,050806,5.8,E*55

05-Aug-06 15:02:19 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150210,3824.7400,N,09812.8292,W,1,10,0.74,26253.8,M,-26.4,M,,*4D

05-Aug-06 15:03:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150300h3824.64N/09812.32WO244/012/A=086996

05-Aug-06 15:03:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#117,086,126,070,138,141,00111010

05-Aug-06 15:03:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,6,05,7,14,7,19,7,25,7,09,7,11,7,30,7*46

05-Aug-06 15:03:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150308,A,3824.6504,N,09813.2428,W,16.912,262.1,050806,5.9,E*53

05-Aug-06 15:03:17 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150310,3824.6499,N,09813.2545,W,1,11,0.74,26515.4,M,-26.4,M,,*43

05-Aug-06 15:04:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150400h3824.50N/09812.83WO265/032/A=087937

05-Aug-06 15:04:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#118,086,126,069,138,141,00111010

05-Aug-06 15:04:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,6,05,7,14,7,19,7,25,7,09,7,11,7,30,7*46

05-Aug-06 15:04:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150408,A,3824.5370,N,09813.7228,W,32.522,249.4,050806,5.9,E*54

05-Aug-06 15:04:19 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150410,3824.5304,N,09813.7441,W,1,11,0.74,26748.6,M,-26.4,M,,*4C

05-Aug-06 15:05:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150500h3824.38N/09813.56WO260/034/A=088790

05-Aug-06 15:05:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#119,086,126,069,138,142,00111010

05-Aug-06 15:05:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,6,05,7,14,7,19,7,25,7,09,7,11,7,30,7*46

05-Aug-06 15:05:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150508,A,3824.3890,N,09814.4180,W,36.758,256.1,050806,5.9,E*53

05-Aug-06 15:05:17 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150510,3824.3844,N,09814.4431,W,1,11,0.74,26961.8,M,-26.4,M,,*4C

05-Aug-06 15:06:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150600h3824.36N/09814.23WO267/031/A=089643

05-Aug-06 15:06:14 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#120,086,126,069,138,142,00111010

05-Aug-06 15:06:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,2,05,7,14,7,19,7,25,7,09,7,11,7,30,7*42

05-Aug-06 15:06:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150608,A,3824.3283,N,09815.0792,W,31.114,271.2,050806,5.9,E*57

05-Aug-06 15:07:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150700h3824.39N/09814.79WO274/024/A=090558

05-Aug-06 15:07:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#121,086,126,068,138,142,00111010

05-Aug-06 15:07:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,7,22,7,01,7,21,6,05,7,14,7,19,7,25,7,09,7,11,7,30,7*46

05-Aug-06 15:07:19 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150710,3824.3683,N,09815.7456,W,1,11,0.74,27437.0,M,-26.4,M,,*4F

05-Aug-06 15:08:13 AE0SS-11*>WIDE2-2>BEACON <UI>:
T#122,086,126,069,138,141,00111010

05-Aug-06 15:08:15 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,7,15,2,22,7,01,7,21,2,05,7,14,7,19,7,25,7,09,6,11,7,30,7*46

05-Aug-06 15:08:15 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150808,A,3824.3406,N,09816.3528,W,51.107,234.5,050806,5.9,E*53

05-Aug-06 15:08:19 AE0SS-11*>EOSS>APRS <UI>:
$GPGGA,150810,3824.3316,N,09816.3924,W,1,09,0.74,27219.0,M,-26.4,M,,*45

05-Aug-06 15:09:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/150900h3824.43N/09815.98WO278/033/A=092461

05-Aug-06 15:09:16 AE0SS-11*>EOSS>APRS <UI>:
$PRWIZCH,18,2,15,2,22,7,01,7,21,2,05,2,14,7,19,7,25,7,09,2,11,7,30,2*47

05-Aug-06 15:09:16 AE0SS-11*>EOSS>APRS <UI>:
$GPRMC,150908,A,3824.0463,N,09816.8393,W,36.968,243.9,050806,5.9,E*53

05-Aug-06 15:13:03 W0NSV-11*>WIDE2-1>APT311 <UI>:
/151300h3824.50N/09818.22WO228/023/A=073056

2436. Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-06 00:12:15 UTC
From: Mark Conner
Topic: 2436 Message: 2436
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2437. Re: Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-06 15:22:09 UTC
From: Mark
Topic: 2436 Message: 2437

Dan KE4SLC wrote me that Paul recovered his OK too - they were in position to watch it land. So it sounds like it was 100% for the day.

73 de Mark N9XTN

--- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
>
> I spoke briefly with Roger KC0MWM by phone this afternoon. As far as he
> knew, everything was recovered successfully. The only unknown was Paul
> KD4STH, who had to recover and immediately head westbound to be in Oregon by
> Monday. Launch was breezy, but no major problems. Sounds like a fun time
> was had by all - wish I could have been there.
>
> 73 de Mark N9XTN
>

2438. Re: [GPSL] Re: Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-06 16:22:53 UTC
From: David Hoffman
Topic: 2436 Message: 2438

Thanks Mark for keeping us updated. I didn't get to go this year either.

David Hoffman - KE4FGW

>
> Dan KE4SLC wrote me that Paul recovered his OK too - they were in
> position to watch it land. So it sounds like it was 100% for the day.
>
> 73 de Mark N9XTN
>
>
> --- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
>>
>> I spoke briefly with Roger KC0MWM by phone this afternoon. As far as
> he
>> knew, everything was recovered successfully. The only unknown was Paul
>> KD4STH, who had to recover and immediately head westbound to be in
> Oregon by
>> Monday. Launch was breezy, but no major problems. Sounds like a fun
> time
>> was had by all - wish I could have been there.
>>
>> 73 de Mark N9XTN
>>
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2439. Re: [GPSL] Re: Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-06 18:21:19 UTC
From: Zack Clobes
Topic: 2436 Message: 2439

Thanks. I hadn't been able to get in touch with Paul to verify his success.

All-in-all, I think everything went well this weekend. Friday's conference was packed full of good presentations, and insightful dialog. I hope to recap some of this on the website and/or CD.

Bill Brown was a little late in getting off the ground due to some GPS issues, but got them running. Everyone else lifted off pretty much on schedule in one of the two groups of balloons.

Come to think of it, I don't even remember anyone reporting even partial equipment failures, other than some strange RF noise apparently coming from one of the balloons.

Lunch on Saturday wound up taking place at a Methodist church in Geneseo. Apparently the town had geared up for hundreds (thousands?) of motorcycles to come through and the church had cooked food for about 300. When we asked some land owners for permission getting onto land, one of the ladies said that they'd only seen about 40 come through, and that we were welcome to join them for lunch.

Saturday evening most of the remaining participants had dinner at Lone Star where the war storied continued.

One of the waitresses was having problems taking our orders because we were all deeply engrossed in the various conversations. She remarked that normally taking people's orders isn't a problem because no one's really talking and/or listening to each other... I thought that was an interesting (but sad) observation.

Zack

Mark wrote:
>
>
> Dan KE4SLC wrote me that Paul recovered his OK too - they were in
> position to watch it land. So it sounds like it was 100% for the day.
>
> 73 de Mark N9XTN
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, "Mark
> Conner" <mconner1@...> wrote:
> >
> > I spoke briefly with Roger KC0MWM by phone this afternoon. As far as
> he
> > knew, everything was recovered successfully. The only unknown was Paul
> > KD4STH, who had to recover and immediately head westbound to be in

> Oregon by
> > Monday. Launch was breezy, but no major problems. Sounds like a fun
> time
> > was had by all - wish I could have been there.
> >
> > 73 de Mark N9XTN
> >
>
>

2440. GPSL Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 01:20:12 UTC
From: Zack Clobes
Topic: 2440 Message: 2440

As promised, I've put together a survey about this year's and previous year's conferences. Please take the time to fill this out.

http://www.custom-ds.com/gpsl/survey.php

Thanks again for letting me host GPSL. It's always a pleasure working with such great people.

Zack

2441. Re: [GPSL] Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 15:23:50 UTC
From: Harry M
Topic: 2436 Message: 2441

Just a quick note to say thanks to Zack for a great job putting GPSL together. I enjoyed visiting with old friends and meeting new ones. The seminars were very entertaining and contained lots of good information. Congratulations to
all who flew and the support personnel which helped make for all the successes.

I would like to request that anyone who has an APRS log of 144.340, please send it to me. With all the interference that was on .34 I have many holes in my log as I'm sure everyone else does. The more logs I have the better chance of reconstructing my flight. I sent my log to Nick (N0LP) and If you would like mine please let me know!.

Looking forward to GPSL 2007!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

2442. Re: [GPSL] Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 16:15:23 UTC
From: Troy Campbell
Topic: 2436 Message: 2442
Attachments: 1 described; binary payloads are missing from this source WARC

I'd like to echo Harry's comments.

Thanks to Zack! We had a great time. Visited old friends and made new ones.

I've attached my TNC log. It has a couple of holes in it also. The findu trail seems to have gotten most of the packets, but it had 2 holes it it also.

73 de Troy KC0MIC

Harry M <hhm_74115@...> wrote:

Just a quick note to say thanks to Zack for a great job putting GPSL together. I enjoyed visiting with old friends and meeting new ones. The seminars were very entertaining and contained lots of good information. Congratulations to
all who flew and the support personnel which helped make for all the successes.

I would like to request that anyone who has an APRS log of 144.340, please send it to me. With all the interference that was on .34 I have many holes in my log as I'm sure everyone else does. The more logs I have the better chance of reconstructing my flight. I sent my log to Nick (N0LP) and If you would like mine please let me know!.

Looking forward to GPSL 2007!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

Yahoo! Music Unlimited - Access over 1 million songs.Try it free.

2443. Re: [GPSL] Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 18:17:29 UTC
From: Harry M
Topic: 2436 Message: 2443
Attachments: 1 described; binary payloads are missing from this source WARC

Thanks Troy!

I forgot I could attach on this group.
Here's my log.

73 Harry KC5TRB

> I've attached my TNC log. It has a couple of holes in it also. The
findu trail seems to have gotten most of the packets, > but it had 2 holes
it it also.

> 73 de Troy KC0MIC

2444. GPSL log

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 19:52:30 UTC
From: Roger Hammond
Topic: 2444 Message: 2444
Attachments: 1 described; binary payloads are missing from this source WARC

I'll add my log to the mix.

Rog - KCØMWM
www.cnnsp.org

2445. Re: BALLOON

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 07:11:34 UTC
From: Mike Manes
Topic: 2445 Message: 2445

Hi Rick,

Hey, thanks for the P1 pix from the AE0SS ATV module on EOSS-111.
I'll compress 'em down to dial-up file size and pass 'em on to
the rest of the group.

We were running a KPA-5 1W PEP AM DSB xmtr to a W6AOL Little Wheel
(H-pol omni). At peak altitude (about 90,000 ft MSL), we were about 10 mi
NNE of Lyons KS. Not bad ATV DX, eh? Looks like you got pre-burst
image of balloon, and a post-burst image of the parachute, both
looking up from from the ATV module.

BTW, we were getting some crosshatch QRM from a nearby balloon with
a carrier in band. So you probably were having the same problems we
were, despite an otherwise P5 image thruout the flight.

Any idea of the distance from Norman?

BTW, Bill Brown WB8ELK was also running ATV on 439.25. Get any images
from his payload?

73 de Mike W5VSI

Rick Vidmar - K9KK wrote:
> Here's a couple of Pics from your ATV on 426.25
> as seen in Norman, OK
> Pretty snowy. I was not able to get vertical sync lock.
> I am Horizontal polarized...
> WHAT POLARITY WERE you running for ATV and parrot RPTR
> ??????????????????????????????????/
> Power output
> ???????????
> Both ATV signal and parrot RPTR were running S9 to 10 over 9 on uhf
> receiver.
> K9KK
>
>
> ---
>
>
> ---
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2446. Re: [EOSS] GPSL Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 22:34:03 UTC
From: Mike Manes
Topic: 2440 Message: 2446

Thanks again for hosting GPSL for yet a 2nd time! Ya done, great! Looking forward to working with you again next year.

73 de Mike W5VSI, EOSS

Zack Clobes wrote:
> As promised, I've put together a survey about this year's and previous
> year's conferences. Please take the time to fill this out.
>
> http://www.custom-ds.com/gpsl/survey.php
>
>
> Thanks again for letting me host GPSL. It's always a pleasure working
> with such great people.
>
> Zack
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2447. videos...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-07 23:43:10 UTC
From: Don KA0JLF
Topic: 2447 Message: 2447

Mark, I'm not sure if this will work, I couldn't reply
to the email.

If anyone is interested there are two simple videos
from our balloon at:
http://www.habitatskylab.org/HS06A/
Check the size, pretty big. They are not as good
quality as the original but I seem to remember
reducing them a little.

Thanks for the help Mark, hope all is going well,
73
Don

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2448. The Saturday lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-08 05:16:24 UTC
From: Joseph Lynch
Topic: 2448 Message: 2448

Hello Everyone,

For those of you who were able to take advantage of the lunch at the Geneseo United Methodist Church after the launch recoveries on Saturday, I invite you to send a note of appreciation to the pastor of the church. Her information is as follows:

Pastor Lyndelle Linde
Geneseo United Methodist Church
P. O. Box 286
Geneseo, KS 67444-0286

You may also email her at: shueylyn@....

Thank you very much for your consideration of this courtesy.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine

2449. Re: [GPSL] The Saturday lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-08 13:27:40 UTC
From: Harry M
Topic: 2448 Message: 2449

Thanks for the info on the church Joe.
It was good to see you and Carol there.

73 Harry KC5TRB

2450. Re: [GPSL] The Saturday lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-08 14:50:07 UTC
From: Joe Lynch
Topic: 2448 Message: 2450

Hi Harry,

Thank you for responding to my email about the pastor. It was also good to see you there. I am glad to know that you had a successful launch and recovery.

See you next time.

73,

Joe

2451. Friday Dinner

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-08 15:48:04 UTC
From: Harry M
Topic: 2451 Message: 2451

I forgot the name of the Mexican restaurant we ate at for Friday dinner.
Would someone refresh my memory please!

Thanks!
Harry KC5TRB

2452. Re: [GPSL] Friday Dinner

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-08 16:47:11 UTC
From: rahammond@charter.net
Topic: 2451 Message: 2452

Anchor Inn

---- Harry M <hhm_74115@...> wrote:
>
> I forgot the name of the Mexican restaurant we ate at for Friday dinner.
> Would someone refresh my memory please!
>
> Thanks!
> Harry KC5TRB

2453. Re: [GPSL] Friday Dinner

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-08 17:15:18 UTC
From: Harry M
Topic: 2451 Message: 2453

Thanks!

2454. [GPSL] Re: Quick GPSL report

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-09 17:41:56 UTC
From: PAUL VERHAGE
Topic: 2436 Message: 2454

We were there to see it land. I stayed at the airport for an hour before leaving. I copied to video from the flight to Dan. I'm editing it down now, its over 800 MB in size. I have video of the potato chip bag bursting, along with the balloons. The change in the sound of the audio beacon is interesting. I have spectrogram software in my radio show editing software that I'll try using on it.

The flight in Klammath Falls was launched before OIT realized the GPS wasn't locking. So we tracked the capsules on a bird tracker on the parachute. We got a bunch of false leads before getting a phone call from a family that found the capsules in a tree inside the boundary of Crater Lake NP. That's a pretty place (all of the Cascades appear to be). The caller used his cell phone, so we couldn't get hold of him again. So I suggested we drive to Crater Lake (we were about 10 miles away) and try tracking him down with the bird tracker. As soon as we drove through the ranger station I turned the radio back on and got a powerful signal. He was only about 500 feet away on the parking lot.

Paul

>>> "Mark" <mconner1@...> 8/6/2006 9:22:09 am >>>

Dan KE4SLC wrote me that Paul recovered his OK too - they were in
position to watch it land. So it sounds like it was 100% for the day.

73 de Mark N9XTN

--- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
>
> I spoke briefly with Roger KC0MWM by phone this afternoon. As far as
he
> knew, everything was recovered successfully. The only unknown was Paul
> KD4STH, who had to recover and immediately head westbound to be in
Oregon by
> Monday. Launch was breezy, but no major problems. Sounds like a fun
time
> was had by all - wish I could have been there.
>
> 73 de Mark N9XTN
>

Yahoo! Groups Links

2455. BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-09 18:05:54 UTC
From: PAUL VERHAGE
Topic: 1021 Message: 2455

I'd like to get more information from Taylor U about their UV sensor. Where do you guys order it?

Paul

2456. Bill Brown

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-09 18:10:46 UTC
From: PAUL VERHAGE
Topic: 652 Message: 2456

Bill, what email address should I use to contact you?

Paul

2457. Van Allen

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-09 20:27:56 UTC
From: PAUL VERHAGE
Topic: 2457 Message: 2457

I just read that Dr. James van Allen has passed away. He designed the radiation detectors that went up on the first satellite flights. That lead to the discovery of the Van Allen radiation belts.

Paul

2458. ORB-21 Landing Video Clip

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-09 22:51:56 UTC
From: Harry M
Topic: 2458 Message: 2458

I have uploaded a short video of the ORB-21 landing. It is in the
Yahoo Group "FILES" section. It's 11 sec's long and 2mb in size.

http://groups.yahoo.com/group/oklahoma_research_balloons/

73 Harry KC5TRB

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

2459. Re: [GPSL] Bill Brown

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 01:12:24 UTC
From: wb8elk@aol.com
Topic: 652 Message: 2459

Hi Paul,

The best email for me is: wb8elk@...

Keep me posted as to times/locations for your upcoming Illinois flight.

- Bill WB8ELK

-----Original Message-----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Wed, 9 Aug 2006 11:10 AM
Subject: [GPSL] Bill Brown

Bill, what email address should I use to contact you?

Paul

Yahoo! Groups Links

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2460. [Fwd: GPSL 2006 telemetry logs from EN21ac]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 00:36:03 UTC
From: Mike Manes
Topic: 2460 Message: 2460
Attachments: 3 described; binary payloads are missing from this source WARC

Thought this would be of wider interest to the GPSL gang.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: GPSL 2006 telemetry logs from EN21ac
Date: Sat, 5 Aug 2006 11:35:55 -0500
From: Wayne <w.jorns@...>
To: 'Roger Hammond' <rahammond@...>, 'Mark Conner'
<mconner1@...>, <paul.verhage@...>, <manes@...>

Greetings gents,
I set my home station to track & IGate the GPSL action on 144.34Mhz. I
logged all raw RF data, the rf-to-internet and internet-to-rf traffic in
separate files. There is some "normal" aprs tcpip data mixed with the
flight telemetry (someday I'll figure out how to filter that during flights
- I want to see flight-related traffic from the aprs servers, but not qth
reports from other areas).
It was a good-looking flight from my vantage point in Bellevue NE :-)
73,
Wayne KE6DZD

Time flies like an arrow. Fruit flies like a banana.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2461. Re: [GPSL] Van Allen

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 02:55:40 UTC
From: Mike Manes
Topic: 2457 Message: 2461

I think I recall hearing Pete Sias N0OY (ex-WB0DRL) mention that the
30 ft dish and az-el gun mount at his QTH in Salina KS was the one used by
Van Allen.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I just read that Dr. James van Allen has passed away. He designed the radiation detectors that went up on the first satellite flights. That lead to the discovery of the Van Allen radiation belts.
>
> Paul
>
>
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2462. Re: [GPSL] Bill Brown

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 09:47:55 UTC
From: Ralph Wallio, W0RPK
Topic: 652 Message: 2462

What upcoming Illinois flight? Details for our Launch Announcements please. --w0rpk

----- Original Message -----
From: <wb8elk@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, August 09, 2006 8:12 PM
Subject: Re: [GPSL] Bill Brown

Hi Paul,

The best email for me is: wb8elk@...

Keep me posted as to times/locations for your upcoming Illinois flight.

- Bill WB8ELK

2463. Re: Illinois Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 15:05:13 UTC
From: Ralph Wallio, W0RPK
Topic: 2463 Message: 2463

Thanks Gene, I am now phase-locked with reality. The Adler FAR HORIZONS-1 flight has been in our
Launch Announcements since 18Jul. I received an announcement e-mail from Geza on 17Jul with details
that are posted. Please advise me of additional downlink modes and frequencies when decisions are
made.

I forwarded the announcement to Mark Garrett, KA9SZX (ma-garrett@...), who then corresponded
directly with Geza and was invited to participate.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2464. ORB-21 Post Flight Web Page

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 16:02:28 UTC
From: Harry M
Topic: 2464 Message: 2464

I have uploaded the ORB-21 post flight web page.

I haven't included any pics other than those pertaining to ORB because of space constraints. I might have room for a few, but it will be a while before I get to them.

http://members.cox.net/hhm_74775/orb/

73 Harry KC5TRB

2465. [GPSL] Re: Illinois Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 19:29:33 UTC
From: PAUL VERHAGE
Topic: 2463 Message: 2465

Ralph, the other capsule will be mine. I'll fly an APRS package on 144.390. The call sign will be KD4STH.

Paul

>>> "Ralph Wallio, W0RPK" <W0RPK@...> 8/10/2006 9:05 am >>>
Thanks Gene, I am now phase-locked with reality. The Adler FAR HORIZONS-1 flight has been in our
Launch Announcements since 18Jul. I received an announcement e-mail from Geza on 17Jul with details
that are posted. Please advise me of additional downlink modes and frequencies when decisions are
made.

I forwarded the announcement to Mark Garrett, KA9SZX (ma-garrett@...), who then corresponded
directly with Geza and was invited to participate.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

Yahoo! Groups Links

2466. GPSL 2007

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 19:39:03 UTC
From: PAUL VERHAGE
Topic: 2466 Message: 2466

GPSL 2007 will be held in the Grand Island area of Nebraska. Roger Hammond has agreed to be the sponsor for next year.

Thanks Roger, and we're here to help you out.

Paul

2467. Re: [GPSL] Bill Brown

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 19:40:49 UTC
From: PAUL VERHAGE
Topic: 652 Message: 2467

I just got your email. It was tucked away in my spam filter.

I just sent out email about the flight. I'll ask Adler to add your email to their list. We need more trackers, so any help you can give would be great. I also want to help out with the overnight balloon flight.

Paul

>>> <wb8elk@aol.com> 8/9/2006 7:12 pm >>>
Hi Paul,

The best email for me is: wb8elk@aol.com

Keep me posted as to times/locations for your upcoming Illinois flight.

- Bill WB8ELK

-----Original Message-----
From: paul.verhage@boiseschools.org
To: GPSL@yahoogroups.com
Sent: Wed, 9 Aug 2006 11:10 AM
Subject: [GPSL] Bill Brown

Bill, what email address should I use to contact you?

Paul

Yahoo! Groups Links

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2468. EOSS data posted

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 19:50:55 UTC
From: Rick von Glahn
Topic: 2445 Message: 2468

GPSL 2006 was another fantastic and fun event. Thanks to Zach for all his hard work getting the event organized.

I've started working on EOSS's recap page. Of interest to this group, there is an APRS log file we captured during the flights from our mobile ground station (my car!).

http://www.eoss.org/ansrecap/ar_130/recap111.htm

I also captured the findu.com logs with timestamps for all groups. I've posted them for historical purposes after all each flight team has probably already got them so it isn't of such immediate interest.

No pictures yet. We have hundreds of them so the problem isn't a lack of photographic documentation but way too much. I'll be running through the photos to pull out the best for adding to the website.

We have video from the ATV module. It varies between p0 and p5 mostly in the p2 to 3 range. But thanks to our mobile ATV capture machine (KB0YRZ's truck antenna array) the video is excellent at launch and pretty much p4 towards the end of the flight. I plan to extract the best 5 to 10 minutes and make something available on the net at that recap page above.

During our last flight at the end of July one of the student payload experiments failed. We flew that again for them at GPSL and their data file is available for your perusal. I extracted the charts and posted them on their own page.

So, the recap page is still fairly preliminary, but data is what most of you are all about so I thought I'd let you know ours is now posted.

73 -- Rick, NØKKZ

2469. Re: [GPSL] BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-10 20:19:24 UTC
From: Jeff Dailey
Topic: 1021 Message: 2469

The UV sensor Part # PDU-S101
Boston Electronics Corp. www.boselec.com

BallonSAT 31 flight is this saturday at 11:00 AM
8-12-2006

Jeff Dailey
Taylor U.
BallonSAT Program

--- PAUL VERHAGE <paul.verhage@...>
wrote:

> I'd like to get more information from Taylor U about
> their UV sensor. Where do you guys order it?
>
> Paul
>
>
>
>
> Yahoo! Groups Links
>
>
> GPSL-unsubscribe@yahoogroups.com
>
>
>
>
>
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2470. Re: [GPSL] Van Allen

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-11 16:33:31 UTC
From: Hank Riley
Topic: 2457 Message: 2470

> that the 30 ft dish and az-el gun mount at his QTH in
> Salina KS was the one used by Van Allen.

What an awesome piece of history that would be if true!

Hank

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2471. Re: [GPSL] BalloonSats

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-11 20:09:41 UTC
From: PAUL VERHAGE
Topic: 1021 Message: 2471

Thanks. I'll look into ordering one.

Paul

>>> Jeff Dailey <jfdailey@yahoo.com> 8/10/2006 2:19 pm >>>

The UV sensor Part # PDU-S101
Boston Electronics Corp. www.boselec.com

BallonSAT 31 flight is this saturday at 11:00 AM
8-12-2006

Jeff Dailey
Taylor U.
BallonSAT Program

--- PAUL VERHAGE <paul.verhage@...>
wrote:

> I'd like to get more information from Taylor U about
> their UV sensor. Where do you guys order it?
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> Paul
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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Yahoo! Groups Links

2472. GPSL Survey

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 03:11:27 UTC
From: Zack Clobes
Topic: 2440 Message: 2472

Just a reminder to fill out the GPSL 2006 survey. So far I've had 17 responses, and I know there are a lot more lurkers than that out there with opinions. :-)

www.custom-ds.com/gpsl/survey.php

2473. High altitude instrument platform patent

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 14:52:57 UTC
From: Troy Campbell
Topic: 2473 Message: 2473

This was interesting. I don't think anyone is violating a patent yet, but.....

http://www.freepatentsonline.com/6144899.html

Troy

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2474. Re: [GPSL] High altitude instrument platform patent

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 15:07:44 UTC
From: Hank Riley
Topic: 2473 Message: 2474

> This was interesting. I don't think anyone is violating a
> patent yet, but.......

As I understand the patent laws, unless devices are offered for
sale, no violation or "infringement" would occur anyway.

Hank

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2475. Clock Oscillators

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 21:49:43 UTC
From: Joe
Topic: 2475 Message: 2475
Attachments: 1 described; binary payloads are missing from this source WARC

Hi All,

Hope everyone has recovered well.

A Question for all.

The small Clock oscillators,, ya know the small metal cans with usually 4 legs that ran on 5 vdc and had horrible square wave outputs,, but made great beacons due to some falling into the ham bands like the old standby 28.322MHz,

ya know they look like this

What's a good source for small quantity of them now days.

Thanks

Joe WB9SBD

Near Space Sciences

2476. Re: [GPSL] Clock Oscillators

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 22:12:16 UTC
From: mgray@ess-us.com
Topic: 2475 Message: 2476

Digikey has a wide selection for $2-3.

http://rocky.digikey.com/WebLib/Epson/Web%20Data/SG-51,531%20Series.pdf

Or Mouser http://www.mouser.com/ for no minimum order.

On Sat, 12 Aug 2006, Joe wrote:

> Hi All,
>
> Hope everyone has recovered well.
>
> A Question for all.
>
> The small Clock oscillators,,? ya know the small metal cans? with usually 4 legs? that
ran
> on 5? vdc and had horrible square wave outputs,, but made great beacons due to some
> falling into the ham bands??? like the old standby 28.322MHz,?
>
> ya know they look like this
>
> What's a good source for small quantity of them now days.
>
> Thanks
>
> Joe WB9SBD
>
> Near Space Sciences
>
>

2477. Re: [GPSL] Clock Oscillators

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 22:55:25 UTC
From: Joe
Topic: 2475 Message: 2477

I tried on Mouser and just couldn't find any, and haven't ordered from
them in soo many years that they gave up sending catalogs, if you know
of a page on them send it ? Thanks
Joe

mgray@... wrote:

> Digikey has a wide selection for $2-3.
>
> http://rocky.digikey.com/WebLib/Epson/Web%20Data/SG-51,531%20Series.pdf
> <http://rocky.digikey.com/WebLib/Epson/Web%20Data/SG-51,531%20Series.pdf>
>
> Or Mouser http://www.mouser.com/ <http://www.mouser.com/> for no
> minimum order.
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> On Sat, 12 Aug 2006, Joe wrote:
>
> > Hi All,
> >
> > Hope everyone has recovered well.
> >
> > A Question for all.
> >
> > The small Clock oscillators,, ya know the small metal cans with
> usually 4 legs that ran
> > on 5 vdc and had horrible square wave outputs,, but made great
> beacons due to some
> > falling into the ham bands like the old standby 28.322MHz,
> >
> > ya know they look like this
> >
> > What's a good source for small quantity of them now days.
> >
> > Thanks
> >
> > Joe WB9SBD
> >
> > Near Space Sciences
> >
> >
>
>

2478. Re: [GPSL] Clock Oscillators

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-12 23:10:32 UTC
From: mgray@ess-us.com
Topic: 2475 Message: 2478

Many options, including ECS -

http://www.mouser.com/catalog/627/720.pdf

Look for P/N 520-TCF2832-X in a full size package

520-TCH2832-X in a 8-pin DIP package

Fox lets you select any frequency less than 125 MHz for less than $20 in
single qty:

http://www.mouser.com/catalog/627/723.pdf

And finally, Abracon has a some surface mounts in that frequency:

http://www.mouser.com/catalog/627/703.pdf

On Sat, 12 Aug 2006, Joe wrote:

> I tried on Mouser and just couldn't find any, and haven't ordered from
> them in soo many years that they gave up sending catalogs, if you know
> of a page on them send it ? Thanks
> Joe
>
> mgray@... wrote:
>
> > Digikey has a wide selection for $2-3.
> >
> > http://rocky.digikey.com/WebLib/Epson/Web%20Data/SG-51,531%20Series.pdf
> > <http://rocky.digikey.com/WebLib/Epson/Web%20Data/SG-51,531%20Series.pdf>
> >
> > Or Mouser http://www.mouser.com/ <http://www.mouser.com/> for no
> > minimum order.
> >
> > On Sat, 12 Aug 2006, Joe wrote:
> >
> > > Hi All,
> > >
> > > Hope everyone has recovered well.
> > >
> > > A Question for all.
> > >
> > > The small Clock oscillators,, ya know the small metal cans with
> > usually 4 legs that ran
> > > on 5 vdc and had horrible square wave outputs,, but made great
> > beacons due to some
> > > falling into the ham bands like the old standby 28.322MHz,

> > >
> > > ya know they look like this
> > >
> > > What's a good source for small quantity of them now days.
> > >
> > > Thanks
> > >
> > > Joe WB9SBD
> > >
> > > Near Space Sciences
> > >
> > >
> >
> >
>
>

2479. Re: [GPSL] Clock Oscillators

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-13 04:46:19 UTC
From: Mike Manes
Topic: 2475 Message: 2479

Hi Joe,

Well, you won't find 'em at Rat Shack any more :={. Try DigiKey, Jameco
or Mouser. They all carry 'em. But hurry! Thru hole IC's are rapidly
being replaced by SMT devices; get binocular magnifiers and a real tiny
soldering iron tip!

73 de Mike W5VSI

Joe wrote:
> Hi All,
>
> Hope everyone has recovered well.
>
> A Question for all.
>
> The small Clock oscillators,, ya know the small metal cans with
> usually 4 legs that ran on 5 vdc and had horrible square wave
> outputs,, but made great beacons due to some falling into the ham
> bands like the old standby 28.322MHz,
>
> ya know they look like this
>
> What's a good source for small quantity of them now days.
>
> Thanks
>
> Joe WB9SBD
>
> Near Space Sciences
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2480. Re: [GPSL] High altitude instrument platform patent

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-13 04:55:27 UTC
From: Mike Manes
Topic: 2473 Message: 2480

Hi Troy,

One of the requirements for getting a patent is originality. Apparently,
the USPTO examiner who approved this patent app hadn't done much homework.
It happens far more often than one might expect.

But you are right - no one's gonna come after an ARHAB group with an
infringement suit - the ante is at least $500,000 - 15 years ago.

73 de Mike W5VSI, EOSS

Troy Campbell wrote:
> This was interesting. I don't think anyone is violating a patent yet,
> but.......
>
>
>
> http://www.freepatentsonline.com/6144899.html
>
> Troy
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2481. CNNSP website updated from GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-13 17:20:18 UTC
From: Roger Hammond
Topic: 2481 Message: 2481

The Central NE Near Space Program website www.cnnsp.org has been updated with the new data, photos, and launch video from the Great Plains Super Launch in Hutchinson, KS last weekend.

Rog - KC0MWM
<http://www.cnnsp.org>

2482. Re: Clock Oscillators

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-13 22:37:59 UTC
From: Al
Topic: 2475 Message: 2482

Joe et al,
Seems like we used to just strip the 28.322 units from old VGA
video boards.

73,
Al, K9SI

2483. ARHAB Videos

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:00:18 UTC
From: PAUL VERHAGE
Topic: 2483 Message: 2483

I finished the videos on my six flights (so far) this year. I put them on youtube.com so they could be seen without having to email them out to the list. Search on NearSys to find the videos. The files may not show up for a little while, they were just uploaded.

Paul

2484. images 2

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:11:21 UTC
From: PAUL VERHAGE
Topic: 2484 Message: 2484
Attachments: 1 described; binary payloads are missing from this source WARC

[Body unavailable in the source archive]

2485. GPSL Images

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:08:47 UTC
From: PAUL VERHAGE
Topic: 2485 Message: 2485
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2486. GPSL Data

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:07:11 UTC
From: PAUL VERHAGE
Topic: 2486 Message: 2486
Attachments: 4 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2487. GPSL Images Again

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:11:06 UTC
From: PAUL VERHAGE
Topic: 2487 Message: 2487
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2488. images 3

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:11:35 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2488
Attachments: 1 described; binary payloads are missing from this source WARC

[Body unavailable in the source archive]

2489. RE: [GPSL] images 3

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 20:53:46 UTC
From: Marty Griffin
Topic: 2488 Message: 2489

Hey Paul,
You get the award for the most colorful pictures. Nice work. Hope your trip home was good.
- Marty

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Monday, August 14, 2006 2:12 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] images 3

2490. Re: [GPSL] images 2

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-14 21:15:16 UTC
From: Nick Hanks
Topic: 2484 Message: 2490

Looks like that might be Lyons in left center of the picture. Could be the airport west of town near the center with its North-South runway. Maybe the large salt plant southeast of town.

Nick
----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, August 14, 2006 2:11 PM
Subject: [GPSL] images 2

2491. Re: [GPSL] GPSL Images Again

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 04:44:35 UTC
From: Brek Brixius
Topic: 2487 Message: 2491

Paul:

The picture with the chips noted is Fantastic! It is going to be my desktop background for a while. Glad to see the tape held on the little balloons. :)

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
I looks like I have to send these one image at a time. So they're will be four messages.

Paul

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

2492. Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 10:25:37 UTC
From: Troy Campbell
Topic: 2488 Message: 2492

Paul,

What make/model camera are you using for your downward still images ?

Troy

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2493. Re: [GPSL] GPSL Images Again

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 18:54:13 UTC
From: PAUL VERHAGE
Topic: 2487 Message: 2493

Look closely to the left of the fours chips. There's some tiny dots
that may be other chips that dropped out earlier. When you get chance
to see the video I put on youtube.com, you'll see the chips dropped out
in chunks.

Paul

>>> Brek Brixius <gofly2007@...> 8/14/2006 10:44 pm >>>
Paul:

The picture with the chips noted is Fantastic! It is going to be my
desktop background for a while. Glad to see the tape held on the little
balloons. :)

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
I looks like I have to send these one image at a time. So
they're will be four messages.

Paul

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

2494. RE: [GPSL] images 3

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 18:52:40 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2494

I made it back in time. The tracker OIT launched didn't get a fix, so it reported just the location of the campus constantly. That's a problem with relying on mapping software to look at tracker output rather than looking at the raw GPS data.

So the short of it is that we chased this thing down with a bird tracker and recovered it in the parking lot of Crater Lake National Park.

Paul

>>> "Marty Griffin" <mgriffin@...> 8/14/2006 2:53 pm >>>
Hey Paul,
You get the award for the most colorful pictures. Nice work. Hope your
trip home was good.
- Marty

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL
VERHAGE
Sent: Monday, August 14, 2006 2:12 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] images 3

Yahoo! Groups Links

2495. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 18:58:11 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2495

It's a digital camera with 2 megapixels. I was a no-name brand from Walmart that I purchased several years ago. I'll see if I can find the camera name after I get home. I an taking a trip to the Adler planetarium to help them with their first balloon launch, so it's going to be another week before I can email you the camera name.

Pretty much any digital camera should work. I'm soldering wires to the camera's shutter button so a flight computer can operate it. I'm also using a SDRAM card to save images instead of the camera's built in memory.

Paul

>>> Troy Campbell <kc0mic@...> 8/15/2006 4:25 am >>>
Paul,

What make/model camera are you using for your downward still images ?

Troy

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2496. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 19:38:34 UTC
From: Troy Campbell
Topic: 2488 Message: 2496

We've tried 4 different cameras and the best results have been with a cheapo 1.3 mp camera. But you can't make good posters with that resolution.

Your pictures seem MUCH more crisp, bright and in-focus that most of ours. I just wonder if it's because you have something to focus on in the foreground and the autofocus is less confused because of that. (dunno)

Additionally, I'm trying to find a camera that we can reliably acquire for reasonably cheap that we can use to put on 2 workshops.

The guy at Colorado, pre-modify them (a good idea) but they're using Canon Elph LT ASP film cameras. I don't know if they collecteyd a number of them over the years and use them over and over? If the don't, I wonder where they get them? They're hard to find on e-bay, though pretty cheap.

Another question about workshops. Do the teams take the airframes home after the flight? They don't pay for the HOBO or camera do they? Do you just use them over again? What do you ususally charge for the workshop to cover the materials?

Thanks!

Troy

PAUL VERHAGE <paul.verhage@...> wrote: It's a digital camera with 2 megapixels. I was a no-name brand from
Walmart that I purchased several years ago. I'll see if I can find the
camera name after I get home. I an taking a trip to the Adler
planetarium to help them with their first balloon launch, so it's going
to be another week before I can email you the camera name.

Pretty much any digital camera should work. I'm soldering wires to the
camera's shutter button so a flight computer can operate it. I'm also
using a SDRAM card to save images instead of the camera's built in
memory.

Paul

>>> Troy Campbell <kc0mic@...> 8/15/2006 4:25 am >>>
Paul,

What make/model camera are you using for your downward still images ?

Troy

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Stay in the know. Pulse on the new Yahoo.com. Check it out.

2497. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 20:12:15 UTC
From: mconner1@gmail.com
Topic: 2488 Message: 2497
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2498. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 21:03:45 UTC
From: Troy Campbell
Topic: 2488 Message: 2498

I've used a 1.3 mp no name that I got from a camera store, a 2.0 Vivitar mp from Walmart, a Concord 4060af from ebay and we're currently using a 3.2 mp HP.

The no name gave us the most consistantly clear pictures but we wanted to get higher density images. The Vivitar made good pictures but fell to pieces on it's first mission. The Concord has flown a couple of times but gave us the most consistantly _bad_ pictures (rarely in focus). The HP is a happy medium but the the silly thing only takes 128mb SD cards. We discovered on the first flight that if you put a 256mb card in it, it will take pictures up to 128mb and then reformat the SD card..... Bummer.

The Concord is about the easiest to modify, so for the workshops, I guess I'll start buying them up when I find them on e-bay. They're pretty cheap right now. Load them up with 512mb or 1gb SD cards and it's bound to come up with a few good pics.

On another front, I've got a couple of the 1gb Aiptek 5400 DVRs, but they take pretty good pictures as well as movies. A couple of servers and I can get it to do both..... Maybe.

Troy

mconner1@... wrote:
I've had good luck with the Concord 4060AF, which is a 4MP camera. In my opinion, the 4MP is done with oversampling and software - the effective resolution is probably about 2MP. I got it at GPSL 2004 from the Wal-Mart we took our film to.
I used to use a Canon Elph LT as well, and still have it. It produced pretty sharp pictures as long as the payload was stable. But you only got 40 of them.
In my view, the key to getting good photos is to shoot a bunch. With a 512 MB card, I can shoot a 4MP picture every 30 seconds and have room to spare. While you have to wade through 200-300 pix, you're bound to find a few to make you say "wow" on each flight. Only shooting 40, you're lucky you get one really great one.
Wal-Mart has a couple of no-name digital cameras in blister packs for a reasonable price. There's a 2MP camera for around $35 that has no display on it, and a 3 or 4 MP camera for about $45 that does have a display. Obviously the lack of display is no big deal for this. I have no experience with these cameras, though. The Elphs run >$100 new.
73 de Mark N9XTN

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Tuesday, August 15, 2006 2:46 pm
Subject: Re: [GPSL] Camera
To: GPSL@yahoogroups.com

> We've tried 4 different cameras and the best results have been
> with a cheapo 1.3 mp camera. But you can't make good posters
> with that resolution.
>
> Your pictures seem MUCH more crisp, bright and in-focus that most
> of ours. I just wonder if it's because you have something to

> focus on in the foreground and the autofocus is less confused
> because of that. (dunno)
>
> Additionally, I'm trying to find a camera that we can reliably
> acquire for reasonably cheap that we can use to put on 2 workshops.
>
> The guy at Colorado, pre-modify them (a good idea) but they're
> using Canon Elph LT ASP film cameras. I don't know if they
> collecteyd a number of them over the years and use them over and
> over? If the don't, I wonder where they get them? They're hard
> to find on e-bay, though pretty cheap.
>
>
> Another question about workshops. Do the teams take the
> airframes home after the flight? They don't pay for the HOBO or
> camera do they? Do you just use them over again? What do you
> ususally charge for the workshop to cover the materials?
>
> Thanks!
>
> Troy .com. Check it out.

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2499. Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 21:29:46 UTC
From: Joe
Topic: 2499 Message: 2499

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

2500. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 21:34:03 UTC
From: Mike Manes
Topic: 2488 Message: 2500

Hi Troy,

Chris Koehler started buying the Canon Elphs back in about 2000 for use
his Gateway to Space balloonsat program. He takes 'em back for re-use
after each flight, as with the Hobos.

73 de Mike W5VSI, EOSS

Troy Campbell wrote:
> We've tried 4 different cameras and the best results have been with a
> cheapo 1.3 mp camera. But you can't make good posters with that
> resolution.
>
> Your pictures seem MUCH more crisp, bright and in-focus that most of
> ours. I just wonder if it's because you have something to focus on in
> the foreground and the autofocus is less confused because of that. (dunno)
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>
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> Another question about workshops. Do the teams take the airframes home
> after the flight? They don't pay for the HOBO or camera do they? Do
> you just use them over again? What do you ususally charge for the
> workshop to cover the materials?
>
> Thanks!
>
> Troy
>
> */PAUL VERHAGE <paul.verhage@...>/* wrote:
>
> It's a digital camera with 2 megapixels. I was a no-name brand from
> Walmart that I purchased several years ago. I'll see if I can find the
> camera name after I get home. I an taking a trip to the Adler
> planetarium to help them with their first balloon launch, so it's going
> to be another week before I can email you the camera name.
>
> Pretty much any digital camera should work. I'm soldering wires to the
> camera's shutter button so a flight computer can operate it. I'm also

> using a SDRAM card to save images instead of the camera's built in
> memory.
>
> Paul
>
> >>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> 8/15/2006 4:25 am >>>
> Paul,
>
> What make/model camera are you using for your downward still images ?
>
> Troy
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
> <http://us.rd.yahoo.com/evt=42974/*http://www.yahoo.com/preview>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2501. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 23:46:55 UTC
From: Troy Campbell
Topic: 2488 Message: 2501

Thanks for the info Mike.

I figured it had to be something like that. I guess I'll start collecting some cameras. I like the Elphs but I'm going to try to decide on some particular model of digital camera. I might start writing letters to some companies and see what I can get.

73 de Troy KC0MIC

Mike Manes <manes@...> wrote: Hi Troy,

Chris Koehler started buying the Canon Elphs back in about 2000 for use
his Gateway to Space balloonsat program. He takes 'em back for re-use
after each flight, as with the Hobos.

73 de Mike W5VSI, EOSS

Troy Campbell wrote:
> We've tried 4 different cameras and the best results have been with a
> cheapo 1.3 mp camera. But you can't make good posters with that
> resolution.
>
> Your pictures seem MUCH more crisp, bright and in-focus that most of
> ours. I just wonder if it's because you have something to focus on in
> the foreground and the autofocus is less confused because of that. (dunno)
>
> Additionally, I'm trying to find a camera that we can reliably acquire
> for reasonably cheap that we can use to put on 2 workshops.
>
> The guy at Colorado, pre-modify them (a good idea) but they're using
> Canon Elph LT ASP film cameras. I don't know if they collecteyd a
> number of them over the years and use them over and over? If the don't,
> I wonder where they get them? They're hard to find on e-bay, though
> pretty cheap.
>
>
> Another question about workshops. Do the teams take the airframes home
> after the flight? They don't pay for the HOBO or camera do they? Do
> you just use them over again? What do you ususally charge for the
> workshop to cover the materials?
>
> Thanks!
>
> Troy
>
> */PAUL VERHAGE <paul.verhage@...>/* wrote:
>

> It's a digital camera with 2 megapixels. I was a no-name brand from
> Walmart that I purchased several years ago. I'll see if I can find the
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> to be another week before I can email you the camera name.
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> Pretty much any digital camera should work. I'm soldering wires to the
> camera's shutter button so a flight computer can operate it. I'm also
> using a SDRAM card to save images instead of the camera's built in
> memory.
>
> Paul
>
> >>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> 8/15/2006 4:25 am >>>
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> What make/model camera are you using for your downward still images ?
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> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
> <http://us.rd.yahoo.com/evt=42974/*http://www.yahoo.com/preview>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

2502. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-15 23:48:17 UTC
From: Troy Campbell
Topic: 2499 Message: 2502

Bill,

Happy Birthday! (Mine and my father's too!)

73 de Troy, KC0MIC

Joe <nss@...> wrote:
Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

2503. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 00:16:08 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2503

I'm getting away from film cameras these days. A film camera is so limited with the number of expsoures that you're bound to miss some good images. If you can get a camera with a setting to take landscape pictures, use that. My regular camera has a lens that you can snap into one of two positions, portait and landscape. The digital camera from this flight didn't have a setting like that, so it may be preset for infinity.

I let my students take their airframes, but not the avionics. The BalloonSat calsses I do are with groups that provide their cameras and Hobos. I've made some camera timers and donated them, though.

Paul

>>> Troy Campbell <kc0mic@...> 08/15/06 1:38 PM >>>
We've tried 4 different cameras and the best results have been with a cheapo 1.3 mp camera. But you can't make good posters with that resolution.

Your pictures seem MUCH more crisp, bright and in-focus that most of ours. I just wonder if it's because you have something to focus on in the foreground and the autofocus is less confused because of that. (dunno)

Additionally, I'm trying to find a camera that we can reliably acquire for reasonably cheap that we can use to put on 2 workshops.

The guy at Colorado, pre-modify them (a good idea) but they're using Canon Elph LT ASP film cameras. I don't know if they collecteyd a number of them over the years and use them over and over? If the don't, I wonder where they get them? They're hard to find on e-bay, though pretty cheap.

Another question about workshops. Do the teams take the airframes home after the flight? They don't pay for the HOBO or camera do they? Do you just use them over again? What do you ususally charge for the workshop to cover the materials?

Thanks!

Troy

PAUL VERHAGE <paul.verhage@...> wrote:
It's a digital camera with 2 megapixels. I was a no-name
brand from
Walmart that I purchased several years ago. I'll see if I can find the camera name after I get home. I an taking a trip to the Adler

planetarium to help them with their first balloon launch, so it's going to be another week before I can email you the camera name.

Pretty much any digital camera should work. I'm soldering wires to the camera's shutter button so a flight computer can operate it. I'm also using a SDRAM card to save images instead of the camera's built in memory.

Paul

>>> Troy Campbell <kc0mic@...> 8/15/2006 4:25 am >>>
Paul,

What make/model camera are you using for your downward still images ?

Troy

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Stay in the know. Pulse on the new Yahoo.com. Check it out.

2504. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 00:04:53 UTC
From: Hap Griffin
Topic: 2499 Message: 2504

My birthday, too (8/15)!

Hap Griffin
WZ4O

----- Original Message -----
From: Troy Campbell
To: GPSL@yahoogroups.com
Sent: Tuesday, August 15, 2006 7:48 PM
Subject: Re: [GPSL] Bill,, WB8ELK,,,

Bill,

Happy Birthday! (Mine and my father's too!)

73 de Troy, KC0MIC

Joe <nss@...> wrote:

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

2505. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 02:27:36 UTC
From: Joe
Topic: 2499 Message: 2505

Ok,,,,

Now I thought it was incredible before when Bill,, Chuck and I all had
the aug 15 birthday,, but this is getting scary! is there something
about Aug 15 and balloons?

Hap Griffin wrote:

> My birthday, too (8/15)!
>
> Hap Griffin
> WZ4O
>
>
> ----- Original Message -----
> From: Troy Campbell <mailto:kc0mic@...>
> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> Sent: Tuesday, August 15, 2006 7:48 PM
> Subject: Re: [GPSL] Bill,, WB8ELK,,,
>
> Bill,
>
> Happy Birthday! (Mine and my father's too!)
>
>
> 73 de Troy, KC0MIC
>
> Joe <nss@... <mailto:nss@...>> wrote:
>
> Happy Birthday Bill!
>
> From your fellow birthday boy,, Joe,
>
> How old ar ya anyway?
>
>
> ---
> Do you Yahoo!?
> Get on board. You're invited
> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/handraisers>
> to try the new Yahoo! Mail Beta.
>
>

2506. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 02:23:56 UTC
From: Joe
Topic: 2499 Message: 2506

Troy?

ur another Aug 15th?

Joe

Troy Campbell wrote:

> Bill,
>
> Happy Birthday! (Mine and my father's too!)
>
>
> 73 de Troy, KC0MIC
>
> Joe <nss@...> wrote:
>
> Happy Birthday Bill!
>
> From your fellow birthday boy,, Joe,
>
> How old ar ya anyway?
>
>
> ---
> Do you Yahoo!?
> Get on board. You're invited
> <http://us.rd.yahoo.com/evt=40791/*http://advision.webevents.yahoo.com/handraisers>
> to try the new Yahoo! Mail Beta.
>

2507. Re: [GPSL] Congratulations! QHA antenna for ATV-SSTV and TARS?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 03:42:52 UTC
From: dmarroneny
Topic: 2487 Message: 2507

Congratulations!

As a new member, I had hoped to participate in GPSL 2006, but unfortunately I could not rally the funds in time. Instead, I have been monitoring your progress and success from this forum. Thank you for sharing your wonderful photos and videos, they are truly inspirational.

I've read your draft book (Parallax site), and EOSS "how to" ARHAB docs, and sucessfully launched a demonstration "Early Warning Weather BalloonSAT" which performed Data Telemetry on 70cM (433Mhz) of: temp, pressure, rainfall, and a 170-parameters total, for the Amateur Radio & Relay League (ARRL) Field Day 2006 Event hosted by my distance learning school: www.Jvril-Science.com , and the New York Hall of Science Amateur Radio Club (www.HoSARC.org). Thank you for your help, it would not have been possible without your instruction.

Tech Question: Has anyone ever considered using a Quadrifilar Helix Antenna(QHA) on 2M or 70cM, for ARHAB ATV-SSTV or TARS?

A half-turn, half-wavelength QHA antenna offers a gain of 5-dbi and 3-db wide beamwidth of 115 to 140 degrees, and allows for data collection down to 10-degrees of the horizon. In addition, it is compact in size (24-inches in length), very low cost, and takes only minutes to assemble.

The QHA antenna is often used to receive SSTV images from overhead passing weather satellites. Perhaps, its increased gain and wide beamwidth would offer an advantage to ARHAB ATV-SSTV? Likewise, its wide directional beamwidth, and increased gain could also provide an advantage to ground tracking and recovery system (TARS)crews in their pursuit of descending ARHAB Balloon SATs?

Dominick J. Marrone
KC2PXA
ARRL Registered Volunteer Instructor
KC2PXA@arrl.net
73
:)

--- In GPSL@yahoogroups.com, "PAUL VERHAGE" <paul.verhage@...> wrote:
>
> Look closely to the left of the fours chips. There's some tiny dots
> that may be other chips that dropped out earlier. When you get
chance
> to see the video I put on youtube.com, you'll see the chips dropped
out

> in chunks.
>
> Paul
>
> >>> Brek Brixius <gofly2007@...> 8/14/2006 10:44 pm >>>
> Paul:
>
> The picture with the chips noted is Fantastic! It is going to be
my
> desktop background for a while. Glad to see the tape held on the
little
> balloons. :)
>
> Brek.
>
>
> PAUL VERHAGE <paul.verhage@...> wrote:
> I looks like I have to send these one image at a time. So
> they're will be four messages.
>
> Paul
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>

2508. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 03:48:50 UTC
From: Troy Campbell
Topic: 2499 Message: 2508

Yep, Me and my dad.

Troy

Joe <nss@...> wrote: Troy?

ur another Aug 15th?

Joe

Troy Campbell wrote:

Bill,

Happy Birthday! (Mine and my father's too!)

73 de Troy, KC0MIC

Joe <nss@...> wrote:

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Do you Yahoo!?
Get on board. You're invited to try the new Yahoo! Mail Beta.

Stay in the know. Pulse on the new Yahoo.com. Check it out.

2509. Re: [GPSL] Congratulations! QHA antenna for ATV-SSTV and TARS?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 03:54:29 UTC
From: Troy Campbell
Topic: 2487 Message: 2509

Dominick,

I'd be interested in any plans you could refer me too.

Thanks!

73 de Troy, KC0MIC

dmarroneny <dmarroneny@...> wrote: Congratulations!

As a new member, I had hoped to participate in GPSL 2006, but unfortunately I could not rally the funds in time. Instead, I have been monitoring your progress and success from this forum. Thank you for sharing your wonderful photos and videos, they are truly inspirational.

I've read your draft book (Parallax site), and EOSS "how to" ARHAB docs, and sucessfully launched a demonstration "Early Warning Weather BalloonSAT" which performed Data Telemetry on 70cM (433Mhz) of: temp, pressure, rainfall, and a 170-parameters total, for the Amateur Radio & Relay League (ARRL) Field Day 2006 Event hosted by my distance learning school: www.Jvril-Science.com , and the New York Hall of Science Amateur Radio Club (www.HoSARC.org). Thank you for your help, it would not have been possible without your instruction.

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Dominick J. Marrone
KC2PXA
ARRL Registered Volunteer Instructor
KC2PXA@...
73
:)

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out
> in chunks.
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> >>> Brek Brixius <gofly2007@...> 8/14/2006 10:44 pm >>>
> Paul:
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> The picture with the chips noted is Fantastic! It is going to be
my
> desktop background for a while. Glad to see the tape held on the
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> balloons. :)
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> Brek.
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> PAUL VERHAGE <paul.verhage@...> wrote:
> I looks like I have to send these one image at a time. So
> they're will be four messages.
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> Paul
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> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2510. 19th annivesary of my first flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 04:35:49 UTC
From: wb8elk@aol.com
Topic: 2499 Message: 2510

Happy Birthday Joe WB9SBD of NSS and also Chuck Crist W9IH of former Wintrax.

It's curious that 3 of the original balloonatics all have the same birthday of August 15th....must be the "balloon sign" of astrology.

- Bill WB8ELK (also August 15th)

This marks the 19th anniversary of my first flight on Aug. 15, 1987.

-----Original Message-----
From: nss@...
To: GPSL@yahoogroups.com
Sent: Tue, 15 Aug 2006 5:29 PM
Subject: [GPSL] Bill,, WB8ELK,,,

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2511. Re: [GPSL] Follow-up to QHA antenna for ATV-SSTV and TARS?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 04:36:47 UTC
From: Dominick Marrone
Topic: 2487 Message: 2511

Hello Troy,

I will scan the docs, and send them to you in the next day or two.

Did you participate onsite in GPSL? Did you design and launch your own ARHAB?, or were you part of the TARS team?

I am one of three teachers at NY Hall of Science Amateur Radio Club (HoSARC), and we are in the process of putting togeher a demonstration unit to perform APRS, via amateur radio tied to GPS, and TNC to laptop PC.

I've purchased the Byonics TNC3+, and will be interfacing it to a Garmin eTREX Legend-C GPS, and ICOM IC-T90A (Tribander; 2M, 70cM, and 6M). In hopes of improving ATV-SSTV and TARS, my research has pointed me towrds the QHA antenna.

After receiving the QHA docs for fabrication, I do hope you will decide to actually build this antenna. It would be great to exchange information on our findings.

Dominick Marrone
KC2PXA@...

Troy Campbell <kc0mic@...> wrote:
Dominick,

I'd be interested in any plans you could refer me too.

Thanks!

73 de Troy, KC0MIC

dmarroneny <dmarroneny@...> wrote: Congratulations!

As a new member, I had hoped to participate in GPSL 2006, but unfortunately I could not rally the funds in time. Instead, I have been monitoring your progress and success from this forum. Thank you for sharing your wonderful photos and videos, they are truly inspirational.

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The QHA antenna is often used to receive SSTV images from overhead passing weather satellites. Perhaps, its increased gain and wide beamwidth would offer an advantage to ARHAB ATV-SSTV? Likewise, its wide directional beamwidth, and increased gain could also provide an advantage to ground tracking and recovery system (TARS)crews in their pursuit of descending ARHAB Balloon SATs?

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> I looks like I have to send these one image at a time. So
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> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
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_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2512. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 04:37:01 UTC
From: wb8elk@aol.com
Topic: 2499 Message: 2512

Hi Joe,

I just celebrated the 14th anniversary of my 39th birthday today.

- Bill WB8ELK

-----Original Message-----
From: nss@...
To: GPSL@yahoogroups.com
Sent: Tue, 15 Aug 2006 5:29 PM
Subject: [GPSL] Bill,, WB8ELK,,,

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2513. August 15th birthdays and balloons connection

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 04:50:02 UTC
From: wb8elk@aol.com
Topic: 2499 Message: 2513

Now this is truly amazing:

Balloon folks who have August 15th as their birthday:

Bill WB8ELK
Joe WB9SBD
Chuck W9IH (former WB9IHS)
Troy KC0MIC (and his Dad too !!)
Hap WZ4O

Hap and I are also big into ATV

How many others in the ballooning community with Aug. 15th birthdays I wonder?

- Bill WB8ELK

Happy Birthday to all of the above and to those I don't know about yet.

-----Original Message-----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Wed, 16 Aug 2006 12:35 AM
Subject: [GPSL] 19th annivesary of my first flight

Happy Birthday Joe WB9SBD of NSS and also Chuck Crist W9IH of former Wintrax.

It's curious that 3 of the original balloonatics all have the same birthday of August 15th....must be the "balloon sign" of astrology.

- Bill WB8ELK (also August 15th)

This marks the 19th anniversary of my first flight on Aug. 15, 1987.

-----Original Message-----
From: nss@...
To: GPSL@yahoogroups.com
Sent: Tue, 15 Aug 2006 5:29 PM
Subject: [GPSL] Bill,, WB8ELK,,,

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2514. Re: [GPSL] August 15th birthdays and balloons connection

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 10:23:00 UTC
From: Troy Campbell
Topic: 2499 Message: 2514

There's probably pulsar somewhere in the constellation LEO who's period peaks every 12 months on Aug 15. That radiation has some special effect on the developing minds of certain newborns. And isn't it strange the LEO just happens to stand for "Low Earth Orbit" ?

Maybe we ought to declare 15-August National Near Space day and have coordinated luanches on that day.

:-}

Troy

wb8elk@... wrote:
Now this is truly amazing:

Balloon folks who have August 15th as their birthday:

Bill WB8ELK
Joe WB9SBD
Chuck W9IH (former WB9IHS)
Troy KC0MIC (and his Dad too !!)
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Hap and I are also big into ATV

How many others in the ballooning community with Aug. 15th birthdays I wonder?

- Bill WB8ELK

Happy Birthday to all of the above and to those I don't know about yet.

-----Original Message-----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Wed, 16 Aug 2006 12:35 AM
Subject: [GPSL] 19th annivesary of my first flight

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From: nss@...
To: GPSL@yahoogroups.com
Sent: Tue, 15 Aug 2006 5:29 PM

Subject: [GPSL] Bill,, WB8ELK,,,

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

2515. Re: [GPSL] August 15th birthdays and balloons connection

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 10:34:45 UTC
From: Joe Lynch
Topic: 2499 Message: 2515

I figured that eventually I could find a connection to this anomaly. Thanks to Troy I found it. My middle name is Leo!

Happy birthday to all -- and to all a good flight!

2516. Re: [GPSL] Follow-up to QHA antenna for ATV-SSTV and TARS?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 12:43:54 UTC
From: David Hoffman
Topic: 2487 Message: 2516

Isn't the Garmin eTREX Legend-C GPS a USB GPS? I'd like to hear how
connecting this to a TinyTrak3 goes.

David Hoffman - KE4FGW

> Hello Troy,
>
> I will scan the docs, and send them to you in the next day or two.
>
> Did you participate onsite in GPSL? Did you design and launch your own
> ARHAB?, or were you part of the TARS team?
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> I am one of three teachers at NY Hall of Science Amateur Radio Club
> (HoSARC), and we are in the process of putting togeher a demonstration
> unit to perform APRS, via amateur radio tied to GPS, and TNC to laptop
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> I've purchased the Byonics TNC3+, and will be interfacing it to a Garmin
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>
> Dominick Marrone
> KC2PXA@...
>
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> Troy Campbell <kc0mic@...> wrote:
> Dominick,
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> I'd be interested in any plans you could refer me too.
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> Thanks!
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> 73 de Troy, KC0MIC
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>> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
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> ~~~~~~
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
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2517. Re: [GPSL] August 15th birthdays and balloons connection

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 14:07:58 UTC
From: ATVQ
Topic: 2499 Message: 2517

You really need to be concerned with what happen 9 months prior?

And, as in that TV commercial, who is buying the hamburgers?

Gene - WB9MMM - Nov. 10th, not that anyone cares......

----- Original Message -----
From: Troy Campbell
To: GPSL@yahoogroups.com
Cc: balloonatics@yahoogroups.com
Sent: Wednesday, August 16, 2006 5:23 AM
Subject: Re: [GPSL] August 15th birthdays and balloons connection

There's probably pulsar somewhere in the constellation LEO who's period peaks every 12 months on Aug 15. That radiation has some special effect on the developing minds of certain newborns. And isn't it strange the LEO just happens to stand for "Low Earth Orbit" ?

Maybe we ought to declare 15-August National Near Space day and have coordinated luanches on that day.

:-}

Troy

wb8elk@... wrote:
Now this is truly amazing:

Balloon folks who have August 15th as their birthday:

Bill WB8ELK
Joe WB9SBD
Chuck W9IH (former WB9IHS)
Troy KC0MIC (and his Dad too !!)
Hap WZ4O

Hap and I are also big into ATV

How many others in the ballooning community with Aug. 15th birthdays I wonder?

- Bill WB8ELK

Happy Birthday to all of the above and to those I don't know about yet.

-----Original Message-----
From: wb8elk@...
To: GPSL@yahoogroups.com
Sent: Wed, 16 Aug 2006 12:35 AM

Subject: [GPSL] 19th annivesary of my first flight

Happy Birthday Joe WB9SBD of NSS and also Chuck Crist W9IH of former Wintrax.

It's curious that 3 of the original balloonatics all have the same birthday of August 15th....must be the "balloon sign" of astrology.

- Bill WB8ELK (also August 15th)

This marks the 19th anniversary of my first flight on Aug. 15, 1987.

-----Original Message-----
From: nss@...
To: GPSL@yahoogroups.com
Sent: Tue, 15 Aug 2006 5:29 PM
Subject: [GPSL] Bill,, WB8ELK,,,

Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.

2518. Re: [GPSL] August 15th birthdays and balloons connection

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 14:37:43 UTC
From: Troy Campbell
Topic: 2499 Message: 2518

I thought of that, but I'm going with "imprinting" like ducklings. Some message or driving purpose is comunicated at birth. Heck, it could even be from an intelligence, instead of a natural phenomenon. (Someone call agent Scully, the pretty one.)

Troy

ATVQ <atvq@...> wrote:
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And, as in that TV commercial, who is buying the hamburgers?

Gene - WB9MMM - Nov. 10th, not that anyone cares......

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Happy Birthday Bill!

From your fellow birthday boy,, Joe,

How old ar ya anyway?

Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

Stay in the know. Pulse on the new Yahoo.com. Check it out.

2519. Re: [GPSL] Bill,, WB8ELK,,,

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-16 21:24:31 UTC
From: Joe
Topic: 2499 Message: 2519

OMG!! a Spring Chicken!

49 here,

wb8elk@... wrote:

> Hi Joe,
>
> I just celebrated the 14th anniversary of my 39th birthday today.
>
> - Bill WB8ELK
>
>
>
>
>
>
> -----Original Message-----
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> Sent: Tue, 15 Aug 2006 5:29 PM
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> Check out AOL.com today
> <http://pr.atwola.com/promoclk/1615326657x4311227241x4298082137/aol?redir=http%3A%2F%2Fwww%2Eaol%2Ecom>.
> Breaking news, video search, pictures, email and IM. All on demand.
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2520. Re: Follow-up to QHA antenna for ATV-SSTV and TARS?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 01:45:43 UTC
From: Dominick J. Marrone
Topic: 2487 Message: 2520

Hello David,

You are correct, Garmin eTRex Legend-C is a USB GPS, and it comes with an eTrex mini-USB to USB cable. A custom cable is unavoidable, I am waiting reply from PFranc.com 'Custom Cables' for verification of cable pinout, voltage levels, and hookup.

At present, I am curently using a USB2COM DB-9 Serial cable (Dynex DX-UBDB9 from Best Buy P/N#7135664 for $35.99) which interfaces nicely between my LaCross Weather Station and my Toshiba Satellite Laptop (this cable comes with USB2COM drivers, and installs in seconds).

I believe it might be possible to use this USB2COM cable for the eTREX too (with the addition of a 3-USB (female)to 1-USB (male) Hub connector (no external power suppply needed). My real concern is not physical conncetors, as they can be easily removed and substituted, but that the voltage pin from TNC3+ to eTREX does not exceed 3.5 volts! My eTREX Legend-C (color display) is the new model; blue case, but on the earlier model; yellow case (ver3.0) you could not exceed 3.5V at 360ma, and at 5V the screen would go completely dark!

So far, all the docs/specs I've read, indicate that my model too is limited to 3.5 volts or less! As for the other pins; data in (RD) pin2, data out (TD) pin3, and signal ground (SG) pin5, they should all remain compatible with standard COM port (RS232 DB-9 pinout).

I'm also following-up with Byon, at Byonics, for possible solution. Since my application is ARHAB weather meteorology, I'm also looking into Byonics new "WXtrak", which acts as a normal TNC3+/APRS interface, but can be used specifically for weather data APRS packets, including location and direction (may require some custom programming).

When I have confirmed the USB2COM cable for eTREX Legend-C interface to Byonics TNC3+, I can send you the interface cable data pinout -- if you're interested?

P.S. I once worked as a summer counselor assistant (woodshop) to a David Hoffman at Ocean Beach Youth Group (OBYG) in L.I. New York, circa 1977 or 1978. At the time, David was also into scuba-diving! Are you this person? If so, it is great to hear from you again!

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Date: 2006-08-17 01:46:16 UTC
From: Dominick J. Marrone
Topic: 2487 Message: 2521

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> > http://mail.yahoo.com
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2522. August 15th 2007 will be the 20th anniversary balloon flight celebration bash

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 05:07:09 UTC
From: wb8elk@aol.com
Topic: 2499 Message: 2522

> Maybe we ought to declare 15-August National Near Space day and have coordinated launches on that day. - Troy

Next year I plan to hold a 20th anniversary balloon celebration in Findlay, Ohio near August 15th, either the weekend before or after and to include a special flight on the actual day.

All are invited to watch or launch and I hope as many of the Aug. 15th balloon folks can attend as well.

This will be something of a Midwest version of GPSL.

See you next year - Bill WB8ELK

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2523. Re: [GPSL] Check your email - I sent you the QHA Antenna Plans ...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 05:42:51 UTC
From: Dominick Marrone
Topic: 2487 Message: 2523

Hi Troy,

I just sent you two emails, each having two attached adobe pdf documents, containing the complete QHA Antenna Plans.

Let me know if you need me to re-scan at higher resolution.

Dominick
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I'd be interested in any plans you could refer me too.

Thanks!

73 de Troy, KC0MIC

dmarroneny <dmarroneny@...> wrote: Congratulations!

As a new member, I had hoped to participate in GPSL 2006, but unfortunately I could not rally the funds in time. Instead, I have been monitoring your progress and success from this forum. Thank you for sharing your wonderful photos and videos, they are truly inspirational.

I've read your draft book (Parallax site), and EOSS "how to" ARHAB docs, and sucessfully launched a demonstration "Early Warning Weather BalloonSAT" which performed Data Telemetry on 70cM (433Mhz) of: temp, pressure, rainfall, and a 170-parameters total, for the Amateur Radio & Relay League (ARRL) Field Day 2006 Event hosted by my distance learning school: www.Jvril-Science.com , and the New York Hall of Science Amateur Radio Club (www.HoSARC.org). Thank you for your help, it would not have been possible without your instruction.

Tech Question: Has anyone ever considered using a Quadrifilar Helix Antenna(QHA) on 2M or 70cM, for ARHAB ATV-SSTV or TARS?

A half-turn, half-wavelength QHA antenna offers a gain of 5-dbi and 3-db wide beamwidth of 115 to 140 degrees, and allows for data collection down to 10-degrees of the horizon. In addition, it is compact in size (24-inches in length), very low cost, and takes only minutes to assemble.

The QHA antenna is often used to receive SSTV images from overhead passing weather satellites. Perhaps, its increased gain and wide

beamwidth would offer an advantage to ARHAB ATV-SSTV? Likewise, its wide directional beamwidth, and increased gain could also provide an advantage to ground tracking and recovery system (TARS)crews in their pursuit of descending ARHAB Balloon SATs?

Dominick J. Marrone
KC2PXA
ARRL Registered Volunteer Instructor
KC2PXA@...
73
:)

--- In GPSL@yahoogroups.com, "PAUL VERHAGE" <paul.verhage@...> wrote:
>
> Look closely to the left of the fours chips. There's some tiny dots
> that may be other chips that dropped out earlier. When you get
chance
> to see the video I put on youtube.com, you'll see the chips dropped
out
> in chunks.
>
> Paul
>
> >>> Brek Brixius <gofly2007@...> 8/14/2006 10:44 pm >>>
> Paul:
>
> The picture with the chips noted is Fantastic! It is going to be
my
> desktop background for a while. Glad to see the tape held on the
little
> balloons. :)
>
> Brek.
>
>
> PAUL VERHAGE <paul.verhage@...> wrote:
> I looks like I have to send these one image at a time. So
> they're will be four messages.
>
> Paul
>
>
>
>
>
>
>
> ---------------------------------
> Do you Yahoo!?
> Next-gen email? Have it all with the all-new Yahoo! Mail Beta.
>

Do You Yahoo!?
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http://mail.yahoo.com

2524. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 15:10:41 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2524

I agree witrh Mark about the digital cameras (in fact I'm writing that into my next column). You're better off with a digital camera and lots of memory. You'll have 200 pictures to go though, but something is bound to turn up. I doubt I would have gottent he potato chips picture if it had been taken with my Elph.

By the way, I'm grabbing a bite in Omaha before getting back on the road. I drove past Grand Isalnd about 2 hours ago.

Paul "I can't wait to get back on the roads again" Verhage

>>> Troy Campbell <kc0mic@...> 08/15/06 5:46 PM >>>
Thanks for the info Mike.

I figured it had to be something like that. I guess I'll start collecting some cameras. I like the Elphs but I'm going to try to decide on some particular model of digital camera. I might start writing letters to some companies and see what I can get.

73 de Troy KC0MIC

Mike Manes <manes@...> wrote: Hi Troy,

Chris Koehler started buying the Canon Elphs back in about 2000 for use
his Gateway to Space balloonsat program. He takes 'em back for re-use
after each flight, as with the Hobos.

73 de Mike W5VSI, EOSS

Troy Campbell wrote:
> We've tried 4 different cameras and the best results have been with a
> cheapo 1.3 mp camera. But you can't make good posters with that
> resolution.
>
> Your pictures seem MUCH more crisp, bright and in-focus that most of
> ours. I just wonder if it's because you have something to focus on in
> the foreground and the autofocus is less confused because of that. (dunno)
>
> Additionally, I'm trying to find a camera that we can reliably acquire
> for reasonably cheap that we can use to put on 2 workshops.
>
> The guy at Colorado, pre-modify them (a good idea) but they're using
> Canon Elph LT ASP film cameras. I don't know if they collecteyd a
> number of them over the years and use them over and over? If the don't,
> I wonder where they get them? They're hard to find on e-bay, though
> pretty cheap.
>
>
> Another question about workshops. Do the teams take the airframes home

> after the flight? They don't pay for the HOBO or camera do they? Do
> you just use them over again? What do you ususally charge for the
> workshop to cover the materials?
>
> Thanks!
>
> Troy
>
> */PAUL VERHAGE <paul.verhage@...>/* wrote:
>
> It's a digital camera with 2 megapixels. I was a no-name brand from
> Walmart that I purchased several years ago. I'll see if I can find the
> camera name after I get home. I an taking a trip to the Adler
> planetarium to help them with their first balloon launch, so it's going
> to be another week before I can email you the camera name.
>
> Pretty much any digital camera should work. I'm soldering wires to the
> camera's shutter button so a flight computer can operate it. I'm also
> using a SDRAM card to save images instead of the camera's built in
> memory.
>
> Paul
>
> >>> Troy Campbell <kc0mic@yahoo.com <mailto:kc0mic%40yahoo.com>>
> 8/15/2006 4:25 am >>>
> Paul,
>
> What make/model camera are you using for your downward still images ?
>
> Troy
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
> <http://us.rd.yahoo.com/evt=42974/*http://www.yahoo.com/preview>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
How low will we go? Check out Yahoo! Messenger’s low PC-to-Phone call rates.

2525. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 15:53:27 UTC
From: mconner1@gmail.com
Topic: 2488 Message: 2525
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2526. Re: [GPSL] August 15th 2007 will be the 20th anniversary balloon flight celebration bash

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 11:17:40 UTC
From: Troy Campbell
Topic: 2499 Message: 2526

Funny you should mention that. We've got NSTAR, NearSpace Ventures, CAPnSPACE, HABITET Skylab, CNNSP, KCATV and a student group in Lawrence KS all pretty close by. I was thinking of aranging a Midwest GPSL sometime if it didn't conflict with GPSL.

Maybe instead of a formal "gathering in one place" we could coordinate launches.

Maybe not.

Troy

wb8elk@... wrote:

> Maybe we ought to declare 15-August National Near Space day and have coordinated launches on that day. - Troy

Next year I plan to hold a 20th anniversary balloon celebration in Findlay, Ohio near August 15th, either the weekend before or after and to include a special flight on the actual day.

All are invited to watch or launch and I hope as many of the Aug. 15th balloon folks can attend as well.

This will be something of a Midwest version of GPSL.

See you next year - Bill WB8ELK

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2527. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 18:23:36 UTC
From: Troy Campbell
Topic: 2488 Message: 2527

Mark,

You'd said in an earlier email that you were using DataTrak code in a new PIC and installed on a TinyTrak III.

What kind of details can you give on that? Is there a manual for it? Do you just send data with it? In other words do you have to parse the GPS and format an APRS string in the flight computer ? If you do, what do you use for a MPU? I'd think that an BS-2 would be a bit under powered.

I'd really like to get some more functionallity for data transmission without having to use a KPC-3 and this sounds like it should do the trick. But if the BS-2 is going to have to parse the GPS strings and format an APRS string, then there won't be much space left for it to do anything else.

73 de Troy, KC0MIC

mconner1@... wrote:
Before Paul's road trips next summer, we should get him to put an APRS tracker full-time in his car.
73 de Mark N9XTN

----- Original Message -----
From: PAUL VERHAGE <paul.verhage@...>
Date: Thursday, August 17, 2006 10:42 am
Subject: Re: [GPSL] Camera
To: GPSL@yahoogroups.com

> By the way, I'm grabbing a bite in Omaha before getting back on
> the road. I drove past Grand Isalnd about 2 hours ago.
>
> Paul "I can't wait to get back on the roads again" Verhage

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2528. Re: [GPSL] Re: Follow-up to QHA antenna for ATV-SSTV and TARS?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 19:09:26 UTC
From: David Hoffman
Topic: 2487 Message: 2528

I would be interested in this cable data pinout when you get it working.

No, I am not that David Hoffman from NY. Sorry!

David Hoffman - KE4FGW

When I have confirmed the USB2COM cable for eTREX Legend-C interface
to Byonics TNC3+, I can send you the interface cable data pinout --
if you're interested?

P.S. I once worked as a summer counselor assistant (woodshop) to a
David Hoffman at Ocean Beach Youth Group (OBYG) in L.I. New York,
circa 1977 or 1978. At the time, David was also into scuba-diving!
Are you this person? If so, it is great to hear from you again!

Dominick Marrone
KC2PXA
ARRL Registered Volunteer Instructor
KC2PXA@...
73
:)

2529. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 18:48:02 UTC
From: rahammond@charter.net
Topic: 2488 Message: 2529

Indeed! I can only imagine the trail of this summer's travels.

Rog KC0MWM

---- mconner1@... wrote:
> Before Paul's road trips next summer, we should get him to put an APRS tracker full-time in his car.
> 73 de Mark N9XTN

2530. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 18:50:25 UTC
From: mconner1@gmail.com
Topic: 2488 Message: 2530
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2531. Re: [GPSL] August 15th 2007 will be the 20th anniversary balloon flight celebration bash

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 18:30:39 UTC
From: mconner1@gmail.com
Topic: 2499 Message: 2531
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2532. Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 18:59:30 UTC
From: mconner1@gmail.com
Topic: 2532 Message: 2532

http://www.ringolake.com/pic_proj/pic_index.html

Take a look at the PSK31 beacon. We plan to fly this hooked to a 2m FM transmitter on a future NSTAR flight.

73 de Mark N9XTN

2533. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 21:01:57 UTC
From: Troy Campbell
Topic: 2532 Message: 2533

Mark,

On the DataTrak code, are you buying the PIC chips already programmed or are you buying the code and programming the pic?

Troy

mconner1@... wrote: http://www.ringolake.com/pic_proj/pic_index.html

Take a look at the PSK31 beacon. We plan to fly this hooked to a 2m FM transmitter on a future NSTAR flight.

73 de Mark N9XTN

Do you Yahoo!?
Next-gen email? Have it all with the all-new Yahoo! Mail Beta.

2534. Anyone have any experience with the TNC-X?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-17 21:34:16 UTC
From: Zack Clobes
Topic: 2534 Message: 2534

I'm thinking about rebuilding my controller board to communicate with the TNC-X using their daughter board port. Just wondering if anyone has any experience using this or any other KISS mode TNC's...

www.tnc-x.com

Zack Clobes, W0ZC
Project: Traveler

2535. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 00:56:54 UTC
From: Harry M
Topic: 2532 Message: 2535

Hi Mark,

I just got through testing an OT-PSK combined with my modified 12mw CW beacon. It works great on 2m FM and if the GPS is omitted It sends short messages along with Batt-V & temp. Makes a great PSK beacon! It might be on my next flight. Not having the capablity to program PIC's, the OT was convenient.

Are we on the same track or what! :~)

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

> Take a look at the PSK31 beacon.

2536. Re: [GPSL] Project Request to Fly My EP Powerplant ...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 05:01:06 UTC
From: Dominick Marrone
Topic: 2488 Message: 2536

Friday, August 18th, 2006

Hello Paul Verhage,

I am a new forum member of TV-NSP, and had hoped to participate in GPSL 2006 but could not secure funding in time. Briefly, I am an Aerospace Engineer, ARRL Registered Volunteer Instructor at the New York Hall of Science Amateur Radio Club (HoSARC.org), and the founder of: Jules Verne Research Institute of Life Science (Astrobiology), an new online distance learning center at: www.jvril-science.com.

I have a method of extending ARHAB flight-time at Near Space altitudes, both before and after Balloon Burst, using an Electric Ion Propulsion Powerplant.

I am an experienced designer and builder of small scale Electric-Gravitic Propulsion Powerplants (a.ka. Electric Ion Propulsion or EP) which are capable of producing an upward thrust greater than the downward force of gravity, causing levitation or a lifting effect. As an EP designer, I build and integrate EP powerplants into small scale micro reusable launch vehicles (mRLV's). The unique aspect of these EP Powerplants is that they only use electricity to impart motion, and DO NOT use solid or liquid fuel propellants, ordnance, propellers, fans or blowers, to produce levitation (lifting thrust).
I assure you, this is not SciFi, nor a Magic trick, but proven technolgy based-on real physical Newtonian principles. This technology is being utilized in NASA and by the commercial sector, but to my knowledge has not yet been performed in space by amateur radio/near space ARHAB developers.

Q: Would you be interested in flying and taking photo's of one or more of my small EP powerplant demonstration models on your next ARHAB flight? The primary goal would be to launch into Near Space, and at a pre-determined altitude activate the EP Powerplant while monitoring (capture data) its ability to "produce lift", and then photo/video the event. Once again, after balloon burst, re-activate the EP Powerplant while monitoring (capture data) its ability to "sustain" a given altitude, and then photo/video this final event.

This is an opportunity to yet again break new ground in ARHAB technology, create an historical event, and to set a new standard in maneuverable amateur radio high altitude balloon (MARHAB) satellites.

If you are interested, we can discuss the technical aspects in detail, at your leisure.

Dominick Marrone
KC2PXA
ARRL Registered Volunteer Instructor (VI)
kc2pxa@...
Member of ERPS and ARSA
73
****

PAUL VERHAGE <paul.verhage@...> wrote:
I agree witrh Mark about the digital cameras (in fact I'm writing that into my next column). You're better off with a digital camera and lots of memory. You'll have 200 pictures to go though, but something is bound to turn up. I doubt I would have gottent he potato chips picture if it had been taken with my Elph.

By the way, I'm grabbing a bite in Omaha before getting back on the road. I drove past Grand Isalnd about 2 hours ago.

Paul "I can't wait to get back on the roads again" Verhage

>>> Troy Campbell <kc0mic@...> 08/15/06 5:46 PM >>>
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73 de Troy KC0MIC

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after each flight, as with the Hobos.

73 de Mike W5VSI, EOSS

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> Troy
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> It's a digital camera with 2 megapixels. I was a no-name brand from
> Walmart that I purchased several years ago. I'll see if I can find the
> camera name after I get home. I an taking a trip to the Adler
> planetarium to help them with their first balloon launch, so it's going
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>
> Pretty much any digital camera should work. I'm soldering wires to the
> camera's shutter button so a flight computer can operate it. I'm also
> using a SDRAM card to save images instead of the camera's built in
> memory.
>
> Paul
>
> >>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> 8/15/2006 4:25 am >>>
> Paul,
>
> What make/model camera are you using for your downward still images ?
>
> Troy
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
>
> ---
> Stay in the know. Pulse on the new Yahoo.com. Check it out.
> <http://us.rd.yahoo.com/evt=42974/*http://www.yahoo.com/preview>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
How low will we go? Check out Yahoo! Messenger’s low PC-to-Phone call rates.

2537. PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 13:24:50 UTC
From: Hank Riley
Topic: 2532 Message: 2537

> I just got through testing an OT-PSK combined with my modified
> 12mw CW beacon. It works great on 2m FM

I have not had a chance to see if OT-PSK is any different than
the conventional PSK, so I'm commenting at some peril of
being off base, but I think I'm safe in saying that most or
all of the "weak-signal" qualities of PSK will be lost if the
signal is sent through a true FM transmitter and demodulated
by an FM receiver with the usual bandwidth filters (IF and AF)
suitable for voice.

Using an amplitude based modulation transmitter-receiver
pair, even if the transmitter is rudimentary, is the way to
go to retain the desirable qualities of PSK.

I guess using an HT and PSK would be an interesting experiment,
but many other methods of modulation will work as well,
or possibly even better, since the FM HT receiver bandwidth
and other factors are already spoiling the PSK recipe for
success.

MORAL: for best performance don't mix wideband FM with
single channel PSK

Hank

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http://mail.yahoo.com

2538. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 13:44:32 UTC
From: Hank Riley
Topic: 2532 Message: 2538

> but I think I'm safe in saying that most or
> all of the "weak-signal" qualities of PSK will be lost if the
> signal is sent through a true FM transmitter and demodulated
> by an FM receiver with the usual bandwidth filters (IF and AF)
> suitable for voice.

I just remembered that the PSK demodulation process using
a sound card may well provide a very narrow bandwidth
regardless of the wide FM rewceiver bandwidth, but the
problem is that there is already damage done in the
process of detecting the FM IF to audio at the usual
wide bandwidth.

That loss of S/N is gone forever, if the signal is not
over the FM threshold level at **point of FM detection**.
If one narrows the FM bandwidth too much as a workaround
to the above effect, then FM becomes noisier than AM.

It would be interesting to rigorously evaluate this
PSK_FM scheme in a controlled laboratory environment with
proper test fixtures and instrumentation.

I might be able to assemble the required setup this
winter.

Hank

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http://mail.yahoo.com

2539. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 14:14:22 UTC
From: Harry M
Topic: 2532 Message: 2539

Mark, Hank, Don,

I tested the OT-FM-PSK combo yesterday with both my TRB beacon xmtr and my peanut butter (PB) jar APRS tracker using the Alinco DJ-C1 and an outside antenna. I had a station listening on FM (Larry WW5WOW), he is 20 miles as the crow flies and he copied the OT-FM-PSK 100%. The TRB beacon was too weak for WOW to copy, but I am copying it 100% locally. I may stick the PB in the Jeep today while I'm out running around and see what I copy from my QTH.

73 Harry

2540. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 14:23:41 UTC
From: mconner1@gmail.com
Topic: 2532 Message: 2540
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2541. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 15:16:20 UTC
From: Troy Campbell
Topic: 2532 Message: 2541

Harry,

Is the "OT-FM-PSK" a kit, or something your scratch built or ??????

73 de Troy KC0MIC

Harry M <hhm_74115@...> wrote:
Mark, Hank, Don,

I tested the OT-FM-PSK combo yesterday with both my TRB beacon xmtr and my peanut butter (PB) jar APRS tracker using the Alinco DJ-C1 and an outside antenna. I had a station listening on FM (Larry WW5WOW), he is 20 miles as the crow flies and he copied the OT-FM-PSK 100%. The TRB beacon was too weak for WOW to copy, but I am copying it 100% locally. I may stick the PB in the Jeep today while I'm out running around and see what I copy from my QTH.

73 Harry

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail Beta.

2542. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 15:56:14 UTC
From: Harry M
Topic: 2532 Message: 2542

Mark, I also think FM-PSK will get through where AX25 won't! It may be a while before I can confirm that!

When ANSR attempted to fly the cross-country flight several months back, I copied it's 20m PSK, on the ground in Truth or Consequences, NM from Tulsa with just a Cushcraft R5 vertical. I could not hear the signal, but the WinPSK program had no problem decoding it.

Troy, my APRS PB tracker is an OT, DJ-C1 and GPS. All I did was d/l the OT-PSK firmware file from... http://n1vg.net/opentracker/downloads.php and u/l it to the OT and fired it up. I ran an audio cable from an HT speaker jack to the mic input of an old laptop and brought up the WinPSK program... http://www.qsl.net/ae4jy/winpsk.htm and I was copying FM-PSK.

73 Harry

2543. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 16:16:03 UTC
From: mconner1@gmail.com
Topic: 2532 Message: 2543
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2544. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 16:25:11 UTC
From: Troy Campbell
Topic: 2532 Message: 2544

So it sends an aprs posit but instead of FSK it uses PSK-31 ?

That's pretty niffty. Now I wonder how so get Xastir to see the posit. Hmm.... sounds interesting.

73 de Troy KC0MIC

Harry M <hhm_74115@...> wrote:

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73 Harry

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2545. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 16:22:49 UTC
From: Ryan Butler
Topic: 2532 Message: 2545

WB4APR's PCSAT-2 satellite onboard the ISS (due to be removed shortly) had a 10m SSB PSK uplink and a 2m FM PSK bent pipe mode on it. They never had much success because it required something in the order of 400-600 watts to get heard on the downlink... I'm wondering if there's more conversion loss than they thought... Not that it's a big problem for nearspace balloons, but using the FM PSK downlink made doppler correction basically unnecessary.

Ryan, KB0JQO

On Fri, 2006-08-18 at 06:24 -0700, Hank Riley wrote:
> > I just got through testing an OT-PSK combined with my modified
> > 12mw CW beacon. It works great on 2m FM
>
> I have not had a chance to see if OT-PSK is any different than
> the conventional PSK, so I'm commenting at some peril of
> being off base, but I think I'm safe in saying that most or
> all of the "weak-signal" qualities of PSK will be lost if the
> signal is sent through a true FM transmitter and demodulated
> by an FM receiver with the usual bandwidth filters (IF and AF)
> suitable for voice.
>
> Using an amplitude based modulation transmitter-receiver
> pair, even if the transmitter is rudimentary, is the way to
> go to retain the desirable qualities of PSK.
>
> I guess using an HT and PSK would be an interesting experiment,
> but many other methods of modulation will work as well,
> or possibly even better, since the FM HT receiver bandwidth
> and other factors are already spoiling the PSK recipe for
> success.
>
> MORAL: for best performance don't mix wideband FM with
> single channel PSK
>
> Hank
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>

>

2546. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 16:33:48 UTC
From: Harry M
Topic: 2532 Message: 2546

Exactly!

With a GPS it sends the following...
KC5TRB-11>APRS:/140113z3609.93N/09556.39W0210/000 09.0V 28C/A=000696

and without a GPS it sends this...
KC5TRB-11>APRS:> 09.0V 28C

> So it sends an aprs posit but instead of FSK it uses PSK-31 ?

GLuck on the Xastir!

>That's pretty niffty. Now I wonder how so get Xastir to see the posit.
Hmm.... sounds interesting.

---

73 Harry

2547. Re: [GPSL] Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 16:34:56 UTC
From: Harry M
Topic: 2532 Message: 2547

I plan to fly the OT-FM-PSK (OFP) on UHF on the next flight, without a GPS. All I have to do is remove the RS Rabitt repeater from the capsule and plug in the OT. Will be interesting to see who can copy and how far.

73 Harry

2548. ORB pix from GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 03:34:15 UTC
From: Mike Manes
Topic: 2548 Message: 2548

Hi Harry,

Hey, great landing pix from GPSL. Glad you were able to blow off the shards soon enuf.

Sure looks like you cud use a "plumb bob" payload at the bottom of your flight string - plus a bigger, vented 'chute. Getting PBC at 1700' MSL is bad form -- bad, BAD form -- rolled-up newspaper 'crost the snout bad :=}.

For ARHAB purposes, a "plumb bob" has a real fast terminal velocity, i.e. heavy and streamlined along the payload line axis. Using the 4-line support will impair the effectiveness of the plumb bob, since it'll transfer the instability of the upper "barn door" payloads all the way down the line. If the plumb bob doesn't have a camera, let the sucker spin.

73 de Mike W5VSI, EOSS
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2549. Re: ORB pix from GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 17:59:51 UTC
From: Harry M
Topic: 2548 Message: 2549

Hi Mike,

That's the first time I've seen it rotate that bad. I think keeping the shards might have helped. The total payload weight was at or over the max for that 36" chute. It does have a 3" vent and it was right at the velocity I had anticipated. I will probly get a 48" chute in the near future.

I'm not sure if you saw the short video of the landing or just the still pics. The landing video is on the ORB Yahoo Group FILES section. If you haven't seen it, take a look. It really shows how bad the rotation was. The two bottom capsules (rabitt & cameras) actually bounced off the grass, but no damage!

My son commented later that if he would've got there in time to catch it, he might have got that "newspaper" across his snout in the form of a capsule. :)

73 Harry

2550. Re: [GPSL] Project Request to Fly My EP Powerplant ...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 18:06:11 UTC
From: Mike Manes
Topic: 2488 Message: 2550

Hi Dominick,

Your project sounds interesting, and I'm sure that any number of balloon groups would be interested in flying your EP propulsion device.

However, there are some FAA issues to deal with, specifically FAR 101 payload weight limits and further, new FAA regs regarding unmanned aerial vehicles, which the FAA has determined to be anything that flies between 700 ft AGL and 60,000 ft MSL and can be steered. There might also be some question whether this EP device might be considered to be a rocket under FAR 101 as well. Note that if it shut down below 60K', then it's probably not an FAA issue, however.

So .... how much does this guy weigh, including batteries? And how would the thrust direction be controlled? And finally, what is the source of the mass being accelerated to produce Newtonian thrust?

Oh -- and would this flight be in support of a commercial activity? If so, then this could raise some FCC Part 97 questions.

73 de Mike W5VSI
Edge of Space Sciences
Denver CO

Dominick Marrone wrote:
> Friday, August 18th, 2006
>
> Hello Paul Verhage,
>
> I am a new forum member of TV-NSP, and had hoped to participate in GPSL
> 2006 but could not secure funding in time. Briefly, I am an Aerospace
> Engineer, ARRL Registered Volunteer Instructor at the New York Hall of
> Science Amateur Radio Club (HoSARC.org), and the founder of: Jules Verne
> Research Institute of Life Science (Astrobiology), an new online
> distance learning center at: www.jvril-science.com
> <http://www.jvril-science.com>.
>
> *I have a method of extending ARHAB flight-time at Near Space altitudes,
> both before and after Balloon Burst, using an Electric Ion Propulsion
> Powerplant.*
>
> I am an experienced designer and builder of small scale
> Electric-Gravitic Propulsion Powerplants (a.ka. Electric Ion Propulsion
> or EP) which are capable of producing an upward thrust greater than
> the downward force of gravity, causing levitation or a lifting effect.
> As an EP designer, I build and integrate EP powerplants into small scale

> micro reusable launch vehicles (mRLV's). The unique aspect of these EP
> Powerplants is that /they only use electricity/ to impart motion, and DO
> NOT use solid or liquid fuel propellants, ordnance, propellers, fans or
> blowers, to produce levitation (lifting thrust).
> I assure you, this is not SciFi, nor a Magic trick, but proven technolgy
> based-on real physical Newtonian principles. This technology is being
> utilized in NASA and by the commercial sector, but to my knowledge has
> not yet been performed in space by amateur radio/near space ARHAB
> developers.
>
> *Q: Would you be interested in flying and taking photo's of one or more
> of my small EP powerplant demonstration models on your next
> ARHAB flight?* The primary goal would be to launch into Near Space, and
> at a pre-determined altitude activate the EP Powerplant while monitoring
> (capture data) its ability to "produce lift", and then photo/video the
> event. Once again, after balloon burst, re-activate the EP Powerplant
> while monitoring (capture data) its ability to "sustain" a given
> altitude, and then photo/video this final event.
>
> *This is an opportunity to yet again break new ground in ARHAB
> technology, create an historical event, and to set a new standard in
> /maneuverable/ amateur radio high altitude balloon (MARHAB) satellites.*
>
> If you are interested, we can discuss the technical aspects in detail,
> at your leisure.
>
> Dominick Marrone
> KC2PXA
> ARRL Registered Volunteer Instructor (VI)
> kc2pxa@... <mailto:kc2pxa@...>
> Member of ERPS and ARSA
> 73
> **********
>
>
> */PAUL VERHAGE <paul.verhage@...>/* wrote:
>
> I agree witrh Mark about the digital cameras (in fact I'm writing
> that into my next column). You're better off with a digital camera
> and lots of memory. You'll have 200 pictures to go though, but
> something is bound to turn up. I doubt I would have gottent he
> potato chips picture if it had been taken with my Elph.
>
> By the way, I'm grabbing a bite in Omaha before getting back on the
> road. I drove past Grand Isalnd about 2 hours ago.
>
> Paul "I can't wait to get back on the roads again" Verhage
>
> >>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> 08/15/06 5:46 PM >>>

> Thanks for the info Mike.
>
> I figured it had to be something like that. I guess I'll start
> collecting some cameras. I like the Elphs but I'm going to try to
> decide on some particular model of digital camera. I might start
> writing letters to some companies and see what I can get.
>
> 73 de Troy KC0MIC
>
> Mike Manes <manes@... <mailto:manes%40attglobal.net>>
> wrote: Hi Troy,
>
> Chris Koehler started buying the Canon Elphs back in about 2000 for use
> his Gateway to Space balloonsat program. He takes 'em back for re-use
> after each flight, as with the Hobos.
>
> 73 de Mike W5VSI, EOSS
>
> Troy Campbell wrote:
> > We've tried 4 different cameras and the best results have been
> with a
> > cheapo 1.3 mp camera. But you can't make good posters with that
> > resolution.
> >
> > Your pictures seem MUCH more crisp, bright and in-focus that most of
> > ours. I just wonder if it's because you have something to focus
> on in
> > the foreground and the autofocus is less confused because of
> that. (dunno)
> >
> > Additionally, I'm trying to find a camera that we can reliably
> acquire
> > for reasonably cheap that we can use to put on 2 workshops.
> >
> > The guy at Colorado, pre-modify them (a good idea) but they're
> using
> > Canon Elph LT ASP film cameras. I don't know if they collecteyd a
> > number of them over the years and use them over and over? If the
> don't,
> > I wonder where they get them? They're hard to find on e-bay, though
> > pretty cheap.
> >
> >
> > Another question about workshops. Do the teams take the airframes
> home
> > after the flight? They don't pay for the HOBO or camera do they? Do
> > you just use them over again? What do you ususally charge for the
> > workshop to cover the materials?
> >
> > Thanks!

> >
> > Troy
> >
> > */PAUL VERHAGE <paul.verhage@...
> <mailto:paul.verhage%40boiseschools.org>>/* wrote:
> >
> > It's a digital camera with 2 megapixels. I was a no-name brand from
> > Walmart that I purchased several years ago. I'll see if I can
> find the
> > camera name after I get home. I an taking a trip to the Adler
> > planetarium to help them with their first balloon launch, so it's
> going
> > to be another week before I can email you the camera name.
> >
> > Pretty much any digital camera should work. I'm soldering wires
> to the
> > camera's shutter button so a flight computer can operate it. I'm also
> > using a SDRAM card to save images instead of the camera's built in
> > memory.
> >
> > Paul
> >
> > >>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>
> <mailto:kc0mic%40yahoo.com>>
> > 8/15/2006 4:25 am >>>
> > Paul,
> >
> > What make/model camera are you using for your downward still images ?
> >
> > Troy
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com <http://mail.yahoo.com/>
> <http://mail.yahoo.com <http://mail.yahoo.com/>>
> >
> >
> > ---
> > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > <http://us.rd.yahoo.com/evt=42974/*http://www.yahoo.com/preview
> <http://us.rd.yahoo.com/evt=42974/*http://www.yahoo.com/preview>>
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>

>
>
>
>
> ---------------------------------
> How low will we go? Check out Yahoo! Messenger’s low PC-to-Phone
> call rates.
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2551. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 19:00:35 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2551

I plan to turn my D7 on during the trip home. Right now I'm conserving my battery in case the cigarette lighter plug doesn't work. It was a last minute job I didn't have time to test and you know how those go.

Paul

>>> <mconner1@...> 08/17/06 9:53 AM >>>
Before Paul's road trips next summer, we should get him to put an APRS tracker full-time in his car.
73 de Mark N9XTN

----- Original Message -----
From: PAUL VERHAGE <paul.verhage@...>
Date: Thursday, August 17, 2006 10:42 am
Subject: Re: [GPSL] Camera
To: GPSL@yahoogroups.com

> By the way, I'm grabbing a bite in Omaha before getting back on
> the road. I drove past Grand Isalnd about 2 hours ago.
>
> Paul "I can't wait to get back on the roads again" Verhage

2552. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 19:03:25 UTC
From: PAUL VERHAGE
Topic: 2488 Message: 2552

I have the BS2p read an entire GPS sentence into scratch pad and then parse out the data at its leasure. There's still lots of capability to store data, check the altitude, and operate experiments.

Paul

>>> Troy Campbell <kc0mic@...> 08/17/06 12:23 PM >>>
Mark,

You'd said in an earlier email that you were using DataTrak code in a new PIC and installed on a TinyTrak III.

What kind of details can you give on that? Is there a manual for it? Do you just send data with it? In other words do you have to parse the GPS and format an APRS string in the flight computer ? If you do, what do you use for a MPU? I'd think that an BS-2 would be a bit under powered.

I'd really like to get some more functionallity for data transmission without having to use a KPC-3 and this sounds like it should do the trick. But if the BS-2 is going to have to parse the GPS strings and format an APRS string, then there won't be much space left for it to do anything else.

73 de Troy, KC0MIC

mconner1@... wrote:
Before Paul's road trips next summer, we should get him to put an APRS tracker full-time in his car.
73 de Mark N9XTN

----- Original Message -----
From: PAUL VERHAGE <paul.verhage@...>
Date: Thursday, August 17, 2006 10:42 am
Subject: Re: [GPSL] Camera
To: GPSL@yahoogroups.com

> By the way, I'm grabbing a bite in Omaha before getting back on
> the road. I drove past Grand Isalnd about 2 hours ago.
>
> Paul "I can't wait to get back on the roads again" Verhage

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http://mail.yahoo.com

2553. Re: [GPSL] August 15th 2007 will be the 20th anniversary balloon flight celebration bash

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 19:01:36 UTC
From: PAUL VERHAGE
Topic: 2499 Message: 2553

Id like to see several super launches. Each one should be timed so they don't conflict.

Paul

>>> Troy Campbell <kc0mic@...> 08/17/06 5:17 AM >>>
Funny you should mention that. We've got NSTAR, NearSpace Ventures, CAPnSPACE, HABITET Skylab, CNNSP, KCATV and a student group in Lawrence KS all pretty close by. I was thinking of aranging a Midwest GPSL sometime if it didn't conflict with GPSL.

Maybe instead of a formal "gathering in one place" we could coordinate launches.

Maybe not.

Troy

wb8elk@... wrote:

> Maybe we ought to declare 15-August National Near Space day and have coordinated launches on that day. - Troy

Next year I plan to hold a 20th anniversary balloon celebration in Findlay, Ohio near August 15th, either the weekend before or after and to include a special flight on the actual day.

All are invited to watch or launch and I hope as many of the Aug. 15th balloon folks can attend as well.

This will be something of a Midwest version of GPSL.

See you next year - Bill WB8ELK

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2554. EOSS cutdown device presentation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 19:18:51 UTC
From: mconner1@gmail.com
Topic: 2554 Message: 2554

Can someone point me to where I might find a description of the EOSS cutdown device mentioned in the GPSL presentation list? I'd like to take a look at it sometime.

73 de Mark N9XTN

2555. Re: ORB pix from GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-18 18:29:36 UTC
From: Mike Manes
Topic: 2548 Message: 2555

Hi Harry,

No, I didn't look at the video - one of these days I'll get fast i'net access, but 'til then, gotta live with dialup rates. However, the stills were plenty good to get the idea - in fact, I coulda used one of 'em in my pitch at GPSL this year!

The reason I suspect the 'chute / barn door combo is that it sure looks like the payload string was generating close to the same drag as the tilted parachute - there certainly was a lot of air dumping laterally under the 'chute skirt driving it sideways.

Re the shards possibly helping: only if they generate more drag than their own weight, and I've never seen that happen. Hanging a few lb of junk off the 'chute apex isn't a swell idea. And if the shards tangle in the shroud lines or canopy ... well, you know what ensues.

The smallest 'chute we've ever flown is 5 ft diameter with a 6" diameter apex vent. That's what we flew at GPSL 06, BTW, and even with 11 lb, descent was graceful. Of course, we had the "plumb bob" AE0SS-11 beacon as tail end charlie.

73 de Mike W5VSI

Harry M wrote:
> Hi Mike,
>
> That's the first time I've seen it rotate that bad. I think keeping the
> shards might have helped. The total payload weight was at or over the max
> for that 36" chute. It does have a 3" vent and it was right at the velocity
> I had anticipated. I will probly get a 48" chute in the near future.
>
> I'm not sure if you saw the short video of the landing or just the still
> pics. The landing video is on the ORB Yahoo Group FILES section. If you
> haven't seen it, take a look. It really shows how bad the rotation was. The
> two bottom capsules (rabitt & cameras) actually bounced off the grass, but
> no damage!
>
> My son commented later that if he would've got there in time to catch it, he
> might have got that "newspaper" across his snout in the form of a capsule.
> :)
>
> 73 Harry
>
> -----
>

>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2556. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-19 00:02:15 UTC
From: Mike Manes
Topic: 2488 Message: 2556

Hi Troy,

THe KPC-3+ is a full-blown TNC, meaning it can hear as well as talk. That means that it can serve as a digipeater or node, and it will abide AX.25 CSMA/CD protocol (won't step on another packet). The TT & ilk do have rudimentary "channel busy" capability, but it's just a rec'd audio level detector.

Perhaps someday Kantronics will come out with real small and light SMT version of the KPC-3. Waitently paiting ....

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I have the BS2p read an entire GPS sentence into scratch pad and then
> parse out the data at its leasure. There's still lots of capability to
> store data, check the altitude, and operate experiments.
>
> Paul
>
>>>> Troy Campbell <kc0mic@...> 08/17/06 12:23 PM >>>
> Mark,
>
> You'd said in an earlier email that you were using DataTrak code in a
> new PIC and installed on a TinyTrak III.
>
> What kind of details can you give on that? Is there a manual for it?
> Do you just send data with it? In other words do you have to parse the
> GPS and format an APRS string in the flight computer ? If you do,
> what do you use for a MPU? I'd think that an BS-2 would be a bit under
> powered.
>
> I'd really like to get some more functionallity for data transmission
> without having to use a KPC-3 and this sounds like it should do the
> trick. But if the BS-2 is going to have to parse the GPS strings and
> format an APRS string, then there won't be much space left for it to do
> anything else.
>
> 73 de Troy, KC0MIC
>
> mconner1@... wrote:
> Before Paul's road trips next summer, we should get him to put an APRS
> tracker full-time in his car.
> 73 de Mark N9XTN
>
> ----- Original Message -----

> From: PAUL VERHAGE <paul.verhage@...>
> Date: Thursday, August 17, 2006 10:42 am
> Subject: Re: [GPSL] Camera
> To: GPSL@yahoogroups.com
>
>
>> By the way, I'm grabbing a bite in Omaha before getting back on
>> the road. I drove past Grand Isalnd about 2 hours ago.
>>
>> Paul "I can't wait to get back on the roads again" Verhage
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> _____
> Do You Yahoo!?
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2557. Re: [GPSL] EOSS cutdown device presentation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-19 00:31:39 UTC
From: Mike Manes
Topic: 2554 Message: 2557
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mark,

The full PPT file is over 25 meg - no way on dialup. Rick may have cut
it over to a smaller PDF on www.eoss.org. If not, then I've put the
last 2 slides into a small unembellished PPT: fastrelease_lite.ppt, attached.
The rest of the pitch discussed PBC causes and cures.

I kinda gives you the general idea - and please note that this design
doesn't even qualify as a prototype; it's just a proof of principle, and
can be vastly improved upon. BTW, I used 0.078" 6061-T6 Al sheet for the
jaws and hardware store stuff for the rest.

I did try to make part drawings in AutoCAD - but after 10 hrs of dealing
with a user interface that makes APRS-SA look friendly, I gave up :={.

73 de Mike W5VSI

73 de Mike W5VSI

mconner1@... wrote:
> Can someone point me to where I might find a description of the EOSS cutdown device
mentioned in the GPSL presentation list? I'd like to take a look at it sometime.
>
> 73 de Mark N9XTN
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
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>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2558. RE: [GPSL] EOSS cutdown device presentation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-19 06:42:39 UTC
From: Rick von Glahn
Topic: 2554 Message: 2558

I posted the PPT as a PDF, that shrunk it down to 534 KB for the full presentation:

http://www.eoss.org/onlinepubs/fast_release.htm

73 -- Rick, NØKKZ

> -----Original Message-----
> From: Mike Manes [mailto:manes@attglobal.net]
> Sent: Friday, August 18, 2006 6:32 PM
> To: Mark Conner
> Cc: GPSL@yahoogroups.com; Rick von Glahn N0KKZ
> Subject: Re: [GPSL] EOSS cutdown device presentation at GPSL
>
> Hi Mark,
>
> The full PPT file is over 25 meg - no way on dialup. Rick may
> have cut it over to a smaller PDF on www.eoss.org. If not,
> then I've put the last 2 slides into a small unembellished
> PPT: fastrelease_lite.ppt, attached.
> The rest of the pitch discussed PBC causes and cures.
>
> I kinda gives you the general idea - and please note that
> this design doesn't even qualify as a prototype; it's just a
> proof of principle, and can be vastly improved upon. BTW, I
> used 0.078" 6061-T6 Al sheet for the jaws and hardware store
> stuff for the rest.
>
> I did try to make part drawings in AutoCAD - but after 10 hrs
> of dealing with a user interface that makes APRS-SA look
> friendly, I gave up :={.
>
> 73 de Mike W5VSI
>
>
> 73 de Mike W5VSI
>
> mconner1@... wrote:
> > Can someone point me to where I might find a description of
> the EOSS cutdown device mentioned in the GPSL presentation
> list? I'd like to take a look at it sometime.
> >
> > 73 de Mark N9XTN
> >
> >
> >

> >
> >
> > Yahoo! Groups Links
> >
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> >
> >
> >
> >
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more
> so." A. Einstein
>

2559. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-19 14:51:48 UTC
From: Hank Riley
Topic: 2532 Message: 2559

>Mark, I also think FM-PSK will get through where AX25
>won't! It may be a while before I can confirm that!

It would be hard to think of any scheme that would
not get through better than AX25!

I believe that if the CRC checking were removed from
AX25, there would be a big improvement in performance
as far as a lower S/N ratio being adequate to get
some data through with minor errors.

Such loss of 100% data accuracy might well be tolerable
in lots of amateur apps, especially balloon work where
there is a lot of redundancy due to the "a priori"
knowledge of certain aspects of the geographic track
and other payload data content, plus the frequency of
data packets.

If you compare CRC and non-CRC systems, it's "apples
and oranges." That's okay, but it just needs to
be understood that it's not a level playing field and the
disadvantage is on the side of the CRC system.

I have successfully transmitted serial balloon telemetry
data at something like 75 baud (maybe before PSK was
devised) using "on-off CW" at 2 meters. It was way, way
more efficient than AX25. It didn't have CRC, but that
could be easily incorporated. Having CRC would decrease
performance but it would still beat AX25 due to the
decreased bandwidth that can be used with *any* slow signal
like 75 baud serial.

Note that the on-off CW serial is an unconventional mode
and no sound card was employed in its detection. I'd like
to find someone who could program that so that a sound card
solution would be available.

It seems like the modes being used and tried for balloon
work are predominantly based on what is available
off-the-shelf. Perhaps more approaches should be
investigated that enable *primitive* transmitters to be
employed, even if that entails receiving systems that are
out of the ordinary for the mainstream terrestrial ham
radio market.

Hank

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http://mail.yahoo.com

2560. CW QRP telemetry data reception and accuracy

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-19 15:53:30 UTC
From: Ralph Wallio, W0RPK
Topic: 2560 Message: 2560

I routinely receive and report QRP CW telemetry from CubeSat spacecraft in orbit. See http://showcase.netins.net/web/wallio/CubeSat.htm for frequencies and links for CUTE-1, CubeSat Xi-IV, CubeSat Xi-V, Cute-1.7 (now just a constant carrier) and (soon to be launched) HitSat.

CW transmit power from these nanosats is 80-100mW into simple monopole and dipole antennas. Orbital height is 600-700km. Slant range at AOS/LOS is ~2,500km where path loss is significantly greater than for ARHAB payloads.

Telemetry reception and accuracy approach 100% AOS-to-LOS. This is accomplished by capturing audio in a PC file and then replaying the file as many times as necessary to be absolutely sure which CW characters were sent. Free dictation software allows playback to be slowed down or speeded up (both occasionally help) with constant or variable pitch.

Reception and accuracy are significantly better than PSK-31, MFSK-16 or any other weak signal digital mode including those with coding gain.

The downside is that reception and accuracy by ear of an experienced operator is substantially better than any soundcard CW software (of which I find CWget to be the best). Operator CW skill and experience is required. My KN9JPR novice year in the mid-50's pays off again.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2561. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-19 20:53:01 UTC
From: Hank Riley
Topic: 2532 Message: 2561

> "on-off CW" at 2 meters. It was way, way
> more efficient than AX25.

I meant to say on-off keying. Nothing to do with
Morse Code.

_____
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http://mail.yahoo.com

2562. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 02:35:34 UTC
From: Zack Clobes
Topic: 2532 Message: 2562

On the CRC checking, you can disable it on KPC-3's at least by doing a PASSALL OFF. I'd image similar functionality is available on other controllers. We usually chase with ours turned off, but I can't say as though it helps. The packets that aren't 100%, tend to be more like 60%. YMMV.

If you're wanting the PC to decode Morse, I've been extremely happy with MRP40 Morse Decoder. As for just OOK, I suppose it may have value, especially in the sense of cheap, simple backup transmitters. However, I personally think us hams need to pull out of the 1980's and go for something with a little more bandwidth than 1200 baud packets. As I recall (and it's been a while), there's plenty of bandwidth available for high-speed data links at either 900MHz or 1.2GHz.

Zack

Hank Riley wrote:
>
> >Mark, I also think FM-PSK will get through where AX25
> >won't! It may be a while before I can confirm that!
>
> It would be hard to think of any scheme that would
> not get through better than AX25!
>
> I believe that if the CRC checking were removed from
> AX25, there would be a big improvement in performance
> as far as a lower S/N ratio being adequate to get
> some data through with minor errors.
>
> Such loss of 100% data accuracy might well be tolerable
> in lots of amateur apps, especially balloon work where
> there is a lot of redundancy due to the "a priori"
> knowledge of certain aspects of the geographic track
> and other payload data content, plus the frequency of
> data packets.
>
> If you compare CRC and non-CRC systems, it's "apples
> and oranges." That's okay, but it just needs to
> be understood that it's not a level playing field and the
> disadvantage is on the side of the CRC system.
>
> I have successfully transmitted serial balloon telemetry
> data at something like 75 baud (maybe before PSK was
> devised) using "on-off CW" at 2 meters. It was way, way

> more efficient than AX25. It didn't have CRC, but that
> could be easily incorporated. Having CRC would decrease
> performance but it would still beat AX25 due to the
> decreased bandwidth that can be used with *any* slow signal
> like 75 baud serial.
>
> Note that the on-off CW serial is an unconventional mode
> and no sound card was employed in its detection. I'd like
> to find someone who could program that so that a sound card
> solution would be available.
>
> It seems like the modes being used and tried for balloon
> work are predominantly based on what is available
> off-the-shelf. Perhaps more approaches should be
> investigated that enable *primitive* transmitters to be
> employed, even if that entails receiving systems that are
> out of the ordinary for the mainstream terrestrial ham
> radio market.
>
> Hank
>
> ---
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
>

2563. Re: [GPSL] How it works: EP Powerplants ...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 04:16:16 UTC
From: Dominick Marrone
Topic: 2488 Message: 2563

Saturday, August 19, 2006

Hello Mike Manes and the EOSS team,

In answer to your questions: This is not a commercial venture, but the information gathered on this mission will be used as a technology demonstration on my website www.jvril-science.com , as training material to promote this field, and shall be made available to those Near Space groups; e.g. EOSS, NSTAR, TV-NSP, etc. who have contributed to this project.

FAA Regulations: I have studied the FAA Far 101 regulations, and I believe this flight vehicle would be compliant with their rules: It shall be tethered to balloon flight vehicle (at all times), is unmanned (flight computer controlled), flight capsule shall weigh less than 6lbs, and it shall NOT use any form of solid, or liquid propellant fuels, ordnance, turbo-prop jet, turbo-fan, or blowers of any kind for propulsion.

Although it is similar in nature to an Arc-Jet, as used on NASA space vehicles, this EP powerlant will not be "injecting" any propellant fuels, hence it does not utilize an electric arc-jet stream (a.k.a. Electric Rocket Propulsion System or ERPS) -- in fact, it is designed deliberately to eliminate the need for injected fuels, or arc-corona effects, as corona would only diminsh its thrust capability.

History: Briefly, this EP powerplant is based-on the concept of "Electric-Gravitic" propulsion as originally invented by Dr. Biefield Bahnson and Thomas Townsend Brown (circa 1950 to 1960) during their military research (now de-classified) project called Winterhaven. This technology was released as of 1973's Freedom of Information Act, and has been replicated by a few individuals in Acadamia, including: Cal-Tech, Stanford, MIT, and myself at the Academy of Aeronautics (Vaughn) in 2005.

HOW DOES IT WORK: Essentially, this EP powerplant utilizes a 12VDC, 4A Power Supply (but for ARHAB, I shall use an Ion-lithium Battery Pack of 12VDC, 4Ah) to power a custom HF/HV Pulsed DC Generator feed into an Ion Accelerator to produce Pulsed DC of 35kV -to- 50kV, 1ma at 30kHz. The special Ion-Emitter and Ion-Collector terminal pair (metal composites) used to produce thrust is seamlessly integrated into the microvehicle airframe by design. The airframe is tethered to a fixed surface (ARHAB Payload Capsule) to provide the microvehicle a means of controlled directional thrust. It is possible to produce full X,Y,Z directional controls but this requires substantially more electrical power (and weight). At present, the record lift is at approx. 1.0 lbs and requires a EP powerplant of 100kV, 5mA and an microvehicle airframe nearly 8 foot in diameter. For this EP Project, I shall be using a scaled-down system to ensure safety, and to establish the dynamics between ARHAB and
EP powerplant. For this first amateur radio prototype, the near space microvehicle shall only utilize Z-thrust (up/down), or alternatively pivot the thruster about a veritcal axis to produce rotary motion.

(Tesla) Teleforce Thruster: As positive Ions at the Ion Accelerator's Emitter (special material, non-radioactive) excite and escape their terminal, ions travel across an

asymetrical band gap (insulator), being attracted and accelerated toward the opposite facing negative Collector terminal (special material, non-radioactive). As it turns out, this ion acceleration produces a Newtonian-type force which is "opposite and exponential" (greater than equal) thereby producing an overall thrusting force. In actuality, this does not violate Newtonian Law but instead this is an anomalous condition that only occurs under specific 'artificially' created and controlled conditions, similar to how the anomalous phenomenon of diamagnetic levitation defy's Earnshaws Law of Magnetics. In essence, this sub-atomic quantum force is creating a condition which may be called AntiGravity, as its force acts against the normal force of gravity. This Teleforce Thrust originally invented by Nikloa
Tesla, is truely amazing to witness, as the craft lifts-off the ground, with the throw of a switch, and accelerates into the air (at speeds of Mach-II) without the aid of propellants, propellers, turbofans, or blowers.

Of course, there is much more science, and electrical design involved in this type of electric propulsion powerplants, such as: accelerators, material science of terminal pairs, biefield-brown effect for teleforce thrust, etc. but this gives you a good detailed description of the concept and how it works.

MY SITUATION: I am currently living in Queens/L.I. New York which makes it nearly impossible to launch an ARHAB satellite, as I am within 5miles of two Int'l Airports, and surrounded on three side by ocean! I can seek help from Rutgers University, but they are in the Bronx, NY and I am not a student. I am funding this project out-of-pocket, and hope to obtain educational sponsors, and/or amateur radio enthusists that would like to see this field experience technological growth.

EOSS WEBSITE: Your EOSS website claims, that they are willing to provide help to educators that are interested in ARHAB near space projects. At present, I am an amateur radio instructor for the New York Hall of Science Amateur Radio Club, a ARRL Hudson Division - Registered Volunteer Instructor (VI), and the founder of an online distance learning center at: www.jvril-science.com (scheduled to debut in September, which also provides training in OSCAR, ARHAB, and also has its own Near Space Program (JVRIL-NSP). As an educator, I have created several scientific programs: In June, I performed a demonstration launch of a prototype OSCAR satellite as an Early Warning Weather Station at the ARRL Field Day Event, and just this past weekend I hosted the Perseids Meteor Shower DXpedition: Forward Meteor Scatter with the Beltzville State Park, P.A. Lehighton Astronomical Society.

WHY THIS TECHNOLOGY IS NEEDED: As an example, EP propulsion will provide the ability to place an OSCAR / ARHAB satellite in near space with sustained manueverability opening the door to a world of new near space applications including: amateur radio-astronomy telescopes, amatuer radio weather stations, and local amateur radio digipeaters to provide extended DXing capability (similar to Meteor Scatter), to name just a few. NASA and Acadamia are currently working on accomplishing this task through the CubeSAT program (which I am also researching), but the ARHAB BalloonSAT is safe, low cost compared to rocketry, and being championed by fellow amateur radio operators -- who are do'ers, that do not get bogged-down in red tape, who are accustomed to designing/fabricating from scratch, who give credit where credit is due, and who openly share information for the good of the field; e.g. ARRL publications, QST-VHF, TAPR TNCs, Moxon Beams, etc..

Q: Would EOSS like to assist me in launching my Electric Propulsion powerplant into Near Space?
Q: Can EOSS help me acquire financing of this project, or lend equipment, facilities, OSCAR

/ ARHAB technical expertise during this project?
Q: Can EOSS provide for the launch, tracking and recovery of this OSCAR / ARHAB vehicle?
Q: Will EOSS have difficulty crediting myself, and JVRIL-NSP for the accomplishment of this EP propulsion project?

I do not have any problem with crediting and sharing technology with those who have contributed to making this OSCAR / ARHAB launch and EP Project possible.

Please Advise.

Dominick J. Marrone
KC2PXA
73
****

Mike Manes <manes@...> wrote:
Hi Dominick,

Your project sounds interesting, and I'm sure that any number of balloon groups would be interested in flying your EP propulsion device.

However, there are some FAA issues to deal with, specifically FAR 101 payload weight limits and further, new FAA regs regarding unmanned aerial vehicles, which the FAA has determined to be anything that flies between 700 ft AGL and 60,000 ft MSL and can be steered. There might also be some question whether this EP device might be considered to be a rocket under FAR 101 as well. Note that if it shut down below 60K', then it's probably not an FAA issue, however.

So .... how much does this guy weigh, including batteries? And how would the thrust direction be controlled? And finally, what is the source of the mass being accelerated to produce Newtonian thrust?

Oh -- and would this flight be in support of a commercial activity? If so, then this could raise some FCC Part 97 questions.

73 de Mike W5VSI
Edge of Space Sciences
Denver CO

Dominick Marrone wrote:
> Friday, August 18th, 2006
>
> Hello Paul Verhage,
>
> I am a new forum member of TV-NSP, and had hoped to participate in GPSL
> 2006 but could not secure funding in time. Briefly, I am an Aerospace
> Engineer, ARRL Registered Volunteer Instructor at the New York Hall of
> Science Amateur Radio Club (HoSARC.org), and the founder of: Jules Verne
> Research Institute of Life Science (Astrobiology), an new online
> distance learning center at: www.jvril-science.com
> .
>
> *I have a method of extending ARHAB flight-time at Near Space altitudes,

> both before and after Balloon Burst, using an Electric Ion Propulsion
> Powerplant.*
>
> I am an experienced designer and builder of small scale
> Electric-Gravitic Propulsion Powerplants (a.ka. Electric Ion Propulsion
> or EP) which are capable of producing an upward thrust greater than
> the downward force of gravity, causing levitation or a lifting effect.
> As an EP designer, I build and integrate EP powerplants into small scale
> micro reusable launch vehicles (mRLV's). The unique aspect of these EP
> Powerplants is that /they only use electricity/ to impart motion, and DO
> NOT use solid or liquid fuel propellants, ordnance, propellers, fans or
> blowers, to produce levitation (lifting thrust).
> I assure you, this is not SciFi, nor a Magic trick, but proven technolgy
> based-on real physical Newtonian principles. This technology is being
> utilized in NASA and by the commercial sector, but to my knowledge has
> not yet been performed in space by amateur radio/near space ARHAB
> developers.
>
> *Q: Would you be interested in flying and taking photo's of one or more
> of my small EP powerplant demonstration models on your next
> ARHAB flight?* The primary goal would be to launch into Near Space, and
> at a pre-determined altitude activate the EP Powerplant while monitoring
> (capture data) its ability to "produce lift", and then photo/video the
> event. Once again, after balloon burst, re-activate the EP Powerplant
> while monitoring (capture data) its ability to "sustain" a given
> altitude, and then photo/video this final event.
>
> *This is an opportunity to yet again break new ground in ARHAB
> technology, create an historical event, and to set a new standard in
> /maneuverable/ amateur radio high altitude balloon (MARHAB) satellites.*
>
> If you are interested, we can discuss the technical aspects in detail,
> at your leisure.
>
> Dominick Marrone
> KC2PXA
> ARRL Registered Volunteer Instructor (VI)
> kc2pxa@...
> Member of ERPS and ARSA
> 73
> **********
>
>
> */PAUL VERHAGE
/* wrote:
>
> I agree witrh Mark about the digital cameras (in fact I'm writing
> that into my next column). You're better off with a digital camera
> and lots of memory. You'll have 200 pictures to go though, but
> something is bound to turn up. I doubt I would have gottent he

> potato chips picture if it had been taken with my Elph.
>
> By the way, I'm grabbing a bite in Omaha before getting back on the
> road. I drove past Grand Isalnd about 2 hours ago.
>
> Paul "I can't wait to get back on the roads again" Verhage
>
> >>> Troy Campbell >
> 08/15/06 5:46 PM >>>
> Thanks for the info Mike.
>
> I figured it had to be something like that. I guess I'll start
> collecting some cameras. I like the Elphs but I'm going to try to
> decide on some particular model of digital camera. I might start
> writing letters to some companies and see what I can get.
>
> 73 de Troy KC0MIC
>
> Mike Manes >
> wrote: Hi Troy,
>
> Chris Koehler started buying the Canon Elphs back in about 2000 for use
> his Gateway to Space balloonsat program. He takes 'em back for re-use
> after each flight, as with the Hobos.
>
> 73 de Mike W5VSI, EOSS
>
> Troy Campbell wrote:
> > We've tried 4 different cameras and the best results have been
> with a
> > cheapo 1.3 mp camera. But you can't make good posters with that
> > resolution.
> >
> > Your pictures seem MUCH more crisp, bright and in-focus that most of
> > ours. I just wonder if it's because you have something to focus
> on in
> > the foreground and the autofocus is less confused because of
> that. (dunno)
> >
> > Additionally, I'm trying to find a camera that we can reliably
> acquire
> > for reasonably cheap that we can use to put on 2 workshops.
> >
> > The guy at Colorado, pre-modify them (a good idea) but they're
> using
> > Canon Elph LT ASP film cameras. I don't know if they collecteyd a
> > number of them over the years and use them over and over? If the
> don't,
> > I wonder where they get them? They're hard to find on e-bay, though
> > pretty cheap.

> >
> >
> > Another question about workshops. Do the teams take the airframes
> home
> > after the flight? They don't pay for the HOBO or camera do they? Do
> > you just use them over again? What do you ususally charge for the
> > workshop to cover the materials?
> >
> > Thanks!
> >
> > Troy
> >
> > */PAUL VERHAGE
> >/* wrote:
> >
> > It's a digital camera with 2 megapixels. I was a no-name brand from
> > Walmart that I purchased several years ago. I'll see if I can
> find the
> > camera name after I get home. I an taking a trip to the Adler
> > planetarium to help them with their first balloon launch, so it's
> going
> > to be another week before I can email you the camera name.
> >
> > Pretty much any digital camera should work. I'm soldering wires
> to the
> > camera's shutter button so a flight computer can operate it. I'm also
> > using a SDRAM card to save images instead of the camera's built in
> > memory.
> >
> > Paul
> >
> > >>> Troy Campbell
> >
> > 8/15/2006 4:25 am >>>
> > Paul,
> >
> > What make/model camera are you using for your downward still images ?
> >
> > Troy
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
> >
> >
> > ---
> > Stay in the know. Pulse on the new Yahoo.com. Check it out.
> > > >

>
> --
> Mike Manes manes@... Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
>
>
>
>
> ---
> How low will we go? Check out Yahoo! Messenger’s low PC-to-Phone
> call rates.
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

2564. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 04:07:31 UTC
From: Mike Manes
Topic: 2532 Message: 2564

Agree. If the issue is battery consumption by the balloon beacon transmitter, a constant amplitude envelope is maximally efficient, since it can use a non-linear RF power amp. Examples are CW, FSK, bPSK, FM etc. SSB, AM, QPSK+, QAM etc all require linear PAs, which are very poor converters of DC power.

At the receiving end, the narrowest bandwidth takes the nod, since the receiver doesn't have to inhale so much of the noisy spectrum. This is the benefit offered by PSK31, which needs only 32 Hz receive bandwidth, compared to 15 KHz for FM packet/voice. QPSK+ offers better processing gain, but costs you in beacon xmtr DC power.

73 de Mike W5VSI

Hank Riley wrote:
>> "on-off CW" at 2 meters. It was way, way
>> more efficient than AX25.
>
> I meant to say on-off keying. Nothing to do with
> Morse Code.
>
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2565. Re: [GPSL] EOSS cutdown device presentation at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 03:08:07 UTC
From: Mike Manes
Topic: 2554 Message: 2565

Thanks, Rick -- altho I assume all that cute, cute, cute animation
I used won't run :={. I think simply dumping that hightop.gif wallpaper
would chop 80% of the filesize from the ppt, tho. Mebbe I'll try that.

For Mark: one thing that doesn't appear in the ppt is an arming device
that keeps the jaws closed until after launch and above turbulence.
The device I've flown so far uses a thin nylon cord with a small NiCr
burner that can be commanded - there's also a backup burner that cuts
the yoke line going to one of the jaws - that will force the jaws open
even when there's tension on the lift line. I'm working on a barometrically
armed device using a anaeroid from a VIZ RAOB. Hope to test it on
EOSS-112.

73 de Mike W5VSI

Rick von Glahn wrote:
> I posted the PPT as a PDF, that shrunk it down to 534 KB for the full
> presentation:
>
> http://www.eoss.org/onlinepubs/fast_release.htm
>
> 73 -- Rick, N?KKZ
>
>
>
>> -----Original Message-----
>> From: Mike Manes [mailto:manes@...]
>> Sent: Friday, August 18, 2006 6:32 PM
>> To: Mark Conner
>> Cc: GPSL@yahoogroups.com; Rick von Glahn N0KKZ
>> Subject: Re: [GPSL] EOSS cutdown device presentation at GPSL
>>
>> Hi Mark,
>>
>> The full PPT file is over 25 meg - no way on dialup. Rick may
>> have cut it over to a smaller PDF on www.eoss.org. If not,
>> then I've put the last 2 slides into a small unembellished
>> PPT: fastrelease_lite.ppt, attached.
>> The rest of the pitch discussed PBC causes and cures.
>>
>> I kinda gives you the general idea - and please note that
>> this design doesn't even qualify as a prototype; it's just a
>> proof of principle, and can be vastly improved upon. BTW, I
>> used 0.078" 6061-T6 Al sheet for the jaws and hardware store
>> stuff for the rest.
>>

>> I did try to make part drawings in AutoCAD - but after 10 hrs
>> of dealing with a user interface that makes APRS-SA look
>> friendly, I gave up :={.
>>
>> 73 de Mike W5VSI
>>
>>
>> 73 de Mike W5VSI
>>
>> mconner1@... wrote:
>>> Can someone point me to where I might find a description of
>> the EOSS cutdown device mentioned in the GPSL presentation
>> list? I'd like to take a look at it sometime.
>>> 73 de Mark N9XTN
>>>
>>>
>>>
>>>
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>>>
>> --
>> Mike Manes manes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more
>> so." A. Einstein
>>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2566. Re: [GPSL] CW QRP telemetry data reception and accuracy

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 03:44:51 UTC
From: Mike Manes
Topic: 2560 Message: 2566

Hi Ralph,

Hear, hear! I have a sweatshirt that one of our "newbies" brought back
from Dayton a few years ago. It is emblazoned with the image of a J-38
and the slogan "Without CW, it's just CB". Ham geezer snobbery - yes;
I earned KN4VBT in 1960 and my Extra the hard way.

I agree that CW in the ear of a skilled brasspounder enjoys "processing
gain" as yet unmatched by any windoze vaporware. However, I'll danged if
I'm gonna sit thru an entire flight keying in CW balloon payload TLM in
real time. If there's enough battery capacity aboard to support a cheap
GPS, then there's plenty to support 2m FM 100 mW 1200 baud packet APRS
beacons at 60 sec intervals for a 2.5 hr flight plus a 3 hr recovery.
That's plenty for a LOS path to the launch site and to a well-positioned
tracker, especially if there's 15 sec+ DF carrier provided.

Now, for those long-duration flights, it might be a good strategy to shut
down the GPS and radio 90% of the time, except during descent and in
controlled airspace, to save batts. But you'd still have to feed the GPS for
about 60 sec to let it get a fix, and then ship off a 1 sec packet burst -
or a 5 sec PSK burst. After all, if it weren't for the weight of batteries,
there'd be no compelling reason to run QRPp on balloon beacons (yeah, yeah,
I know how much a full gallon PA weighs - that's not my point). This is
why I think the pocket tracker scheme of killing IC and radio power, while
leaving the 1/2W+ GPS powered up continuously, is kinda silly.

BTW, PSK31 directly on the carrier will get thru when 1200 baud FSK packet
won't. It's a noise bandwidth / processing gain issue. Using a 1 KHz PSK
subcarrier to drive an FM xmtr at 4 kHz dev loses most of that advantage,
as noted earlier.

But .... CW still rules.

73 de Mike W5VSI, EOSS

Ralph Wallio, W0RPK wrote:
> I routinely receive and report QRP CW telemetry from CubeSat spacecraft in orbit. See
> http://showcase.netins.net/web/wallio/CubeSat.htm for frequencies and links for CUTE-1,
CubeSat
> Xi-IV, CubeSat Xi-V, Cute-1.7 (now just a constant carrier) and (soon to be launched)
HitSat.
>
> CW transmit power from these nanosats is 80-100mW into simple monopole and dipole
antennas. Orbital
> height is 600-700km. Slant range at AOS/LOS is ~2,500km where path loss is significantly
greater
> than for ARHAB payloads.

>
> Telemetry reception and accuracy approach 100% AOS-to-LOS. This is accomplished by capturing
> audio in a PC file and then replaying the file as many times as necessary to be absolutely sure
> which CW characters were sent. Free dictation software allows playback to be slowed down or speeded
> up (both occasionally help) with constant or variable pitch.
>
> Reception and accuracy are significantly better than PSK-31, MFSK-16 or any other weak signal
> digital mode including those with coding gain.
>
> The downside is that reception and accuracy by ear of an experienced operator is substantially
> better than any soundcard CW software (of which I find CWget to be the best). Operator CW skill and
> experience is required. My KN9JPR novice year in the mid-50's pays off again.
>
> TNX es 73 de Ralph Wallio, W?RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
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> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2567. [Fwd: Thanks Bob: Fun on the freeway.]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 04:16:31 UTC
From: Mike Manes
Topic: 2567 Message: 2567
Attachments: 1 described; binary payloads are missing from this source WARC

Hey, try THIS on your next posted + 30 cruise to the landing site!
Might save you from getting a 10 GHz QSL card from the local constable.
73 de Mike W5VSI

-------- Original Message --------
Subject: Thanks Bob: Fun on the freeway.
Date: Sat, 19 Aug 2006 16:26:09 -0600
From: Richard L. Beggs <brichard281@...>
To: Russ Chadwick <russ@...>, Randy Reynard <nqzeror@...>,
Larry Cerney <lcerney@...>, Larry Noble <n0ndm@...>, Dan
Meyer <n0puf@...>, Chris Krengel <kb0yrz@...>, Ben Baker
<kb0ubz@...>, Benji <W0CBH@...>, Merle McCaslin
<mmccaslin@...>, Mike Manes <manes@...>

Bob say?s*:* Fun on the freeway.

I Say Next Balloon Flight we need to find some of these!
mailbox:///E|/programs/netscape/Netscape3Mail/Inbox?number=48021180&part=1.3&filename=imag
e001.jpg

*Can you** **imagine some guy on the Thruway with these balloons
trailing about a few yards behind him? *

Instructions for a fun time on the Thruway.....

*Step 1. Tie balloons to car**.** *
*Step 2. Drive like a bat out of hell.... *
Step 3. Watch people freak out!!!!

****

****

Richard L. Beggs K0AEM 145.430

1173 Croke Dr.

Thornton, Co. 80260

Richard@... <mailto:Richard@...>

303-426-6697 Cell 303-929-5417

EC ACARES D27,EOSS, CERT,RMRL, APRS IGate Dnvr.

God Bless and Have a Wonderful Day.

****

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2568. Near Space Video

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 14:39:08 UTC
From: PAUL VERHAGE
Topic: 2568 Message: 2568

After having travelled to 6 near space launches this summer, I'm thinking of doing more next year. In fact I'd like to make a video of my trips and edit it into a 30 minute video. So I'm looking for ideas and schedules for summere travels next summer. I'd like to do a few BalloonSat classes, give a few presentations, visit some historic near space locations, and do launches. I would save some money if I can do this in a single trip that loops around the US rather than travelling back and forth like I did this year.

I know a year in advance is too far for people to plan launches, but still let me know if you'd like to arrange a launch or presentation next summer. Next year I'll contact ham clubs who have never been involved with a launch and see about presenting to them (and inviting them out). If you know of any groups that may be interested in making a BalloonSat for launch, please le tme know, also.

Paul

2569. Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 14:46:19 UTC
From: PAUL VERHAGE
Topic: 2569 Message: 2569

We'll I launch in my 8th state this weekend.

I'd like to start the launched all states award that I mentioned at GPSL 2006. Here's some ideas I have. I'd like to get some more opinions.

I think the award should be given for balloon flights that reach near space (60,000? feet or higher). The launch must have been recovered, or at least there must have been an honest effort to recover it. Perhaps the launch should have also recovered in the same state, so the award also includes a recovered all states award.

I don't know what to do about people who are attending a launch but did make the near spacecraft. I think you should only be awarded a state if the stack includes a payload that belongs to you. So someone who made a non-tracking BalloonSat is eligible for the award, even though they depend on the tracking near spacecraft to get the BalloonSat back.

To be eligible, I think you should be there to launch, chase, and recover.

Ideas?

I would issue an award for every five states.

Paul

2570. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 15:45:06 UTC
From: Mark Garrett
Topic: 2488 Message: 2570
Attachments: 2 described; binary payloads are missing from this source WARC

I agree as well. Paul, that Geo with a APRS tracker. Maybe Paul should go one step further and place a display and keyboard to handle messages as he travels from launch to launch. Then we could text him while on the road.

Which brings up an idea for APRS. There should be the ability and a site much like Echolink where you can enter in your callsign, get a map display of those with message capability click on them from the display and enter a message to them.
More and more amateurs would use APRS if they had the ability to send a message to each other. By nature of APRS it would be brief but it would add value to a system that already exists.

I only use APRS for monitoring balloon flights especially thru I-Gates since I cannot be there most of the time to participate, otherwise looking at all of the weather stations and stationary objects leaves a lot to be desired. Maybe with message abilities a message could be sent back such as data telemetry or distant tracking information.

Comment among yourselves, I will not be able to post back for another week.

Mark Garrett
KA9SZX

At 10:53 AM 8/17/2006, you wrote:

>Before Paul's road trips next summer, we should get him to put an APRS
>tracker full-time in his car.
>
>73 de Mark N9XTN
>
>----- Original Message -----
>From: PAUL VERHAGE <paul.verhage@...>
>Date: Thursday, August 17, 2006 10:42 am
>Subject: Re: [GPSL] Camera
>To: GPSL@yahoogroups.com
>
>
> > By the way, I'm grabbing a bite in Omaha before getting back on
> > the road. I drove past Grand Isalnd about 2 hours ago.
> >
> > Paul "I can't wait to get back on the roads again" Verhage
>
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.

>Version: 7.1.405 / Virus Database: 268.11.3/423 - Release Date: 8/18/2006

2571. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-20 15:53:20 UTC
From: Harry M
Topic: 2488 Message: 2571

What you need is a HamHud... http://www.hamhud.net/

73 Harry

2572. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 04:18:29 UTC
From: Mike Manes
Topic: 2488 Message: 2572

Hi Harry,

I read some stuff about the HamHUD (Head's Up Display) a few years ago,
and suggested some improvements related to balloon tracking and recovery,
especially during the descent phase.

Any experience with HamHUD yerself?

73 de Mike W5VSI

Harry M wrote:
>
> What you need is a HamHud... http://www.hamhud.net/
>
> 73 Harry
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2573. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 03:35:02 UTC
From: Mike Manes
Topic: 2569 Message: 2573

Hi Paul,

Would this award go to individuals or entire groups? If for groups, then
a single magazine subscription isn't really of value. However, if it
covered fuel costs ... :=}

I'd suggest that a flight crosses state lines, then ALL states which
the flight crosses should count towards the total. This would give
some leverage to the smaller NE states, which would partially compensate
for the likelihood of a maritime landing. It would also tip the scales
towards long-duration flights.

I do think that recovery should be a requirement, however; what constitutes
an "honest effort"? A return address sticker? Perhaps maritime landings
could be exempted - but as U PR SGC has shown, maritime recoveries are indeed
feasible, and with proper forecasting, both avoidable and not unexpected.

Lessee ... by this standard, EOSS has launched from CO, WY, KS & IA and
recovered from CO, WY, KS, IA and NE. We've crossed the CO/WY, CO/NE &
WY/NE state lines.

73 de Mike W5VSI, EOSS

PS: Would this be a good time to reintroduce the gross tonnage award :=}?

PAUL VERHAGE wrote:
> We'll I launch in my 8th state this weekend.
>
> I'd like to start the launched all states award that I mentioned at GPSL
> 2006. Here's some ideas I have. I'd like to get some more opinions.
>
> I think the award should be given for balloon flights that reach near
> space (60,000? feet or higher). The launch must have been recovered, or
> at least there must have been an honest effort to recover it. Perhaps
> the launch should have also recovered in the same state, so the award
> also includes a recovered all states award.
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> I don't know what to do about people who are attending a launch but did
> make the near spacecraft. I think you should only be awarded a state if
> the stack includes a payload that belongs to you. So someone who made a
> non-tracking BalloonSat is eligible for the award, even though they
> depend on the tracking near spacecraft to get the BalloonSat back.
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> To be eligible, I think you should be there to launch, chase, and
> recover.
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> Ideas?

> I would issue an award for every five states.
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> Paul
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
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2574. Re: [GPSL] Near Space Video

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 02:32:51 UTC
From: Mike Manes
Topic: 2568 Message: 2574

Hi Paul,

The EOSS docket for 2007 is already fleshing out with 12 flights so far:

EOSS-115: __ Feb: EOSS Midwinters 1 x 1200 Windsor CO
EOSS-116: 17/18 Mar: Big Blue IV; 1 x 54K ft? plastic burster Windsor
EOSS-117: 14/15 Apr: CU & DemoSats 1 x 3000 Windsor
EOSS-118/119: 30/31 Apr: USAFRL SHOT I 2 x 3000 Deer Trail CO
EOSS-120: __ Jul: GPSL 2007 1 x 1200 Nebraska
EOSS-121/122: 14/15 Jul: Workshop / Upward Bound 2 x 3000 Deer Trail
EOSS-123/124: 28/29 Jul: Colo SGC DemoSat V 2 x 3000 Deer Trail
EOSS-125:__ Oct: Pike's Peak BSA JOTA 1 x 1200 ?(E. of Colo Sprgs CO)
EOSS-126: 10/11 Nov: CU Gateway 'sats 1 x 3000 Windsor

These are also listed on www.eoss.org, where updates will appear as they occur.

Dates for 115, 120 and 126 remain TBD. 115's date could be tweaked a bit to accommodate your plans, but I suspect that's not part of your summer tour. I'd expect that there will be one or two more latecomers as well, e.g., NOAA Aircore, but those most likely wouldn't fall in the summer rush.

Since you've had some experience teaching balloonsat classes, Chris Koehler may be interested in enlisting your assistance with one or more of his Colo Space Grant classes (117-119, 121-124, 126).

73 de Mike W5VSI

PAUL VERHAGE wrote:
> After having travelled to 6 near space launches this summer, I'm
> thinking of doing more next year. In fact I'd like to make a video of
> my trips and edit it into a 30 minute video. So I'm looking for ideas
> and schedules for summere travels next summer. I'd like to do a few
> BalloonSat classes, give a few presentations, visit some historic near
> space locations, and do launches. I would save some money if I can do
> this in a single trip that loops around the US rather than travelling
> back and forth like I did this year.
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> I know a year in advance is too far for people to plan launches, but
> still let me know if you'd like to arrange a launch or presentation next
> summer. Next year I'll contact ham clubs who have never been involved
> with a launch and see about presenting to them (and inviting them out).
> If you know of any groups that may be interested in making a BalloonSat
> for launch, please le tme know, also.
>
> Paul
>

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Mike Manes manes@... Tel: 303-979-4899
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2575. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 16:45:23 UTC
From: Hank Riley
Topic: 2532 Message: 2575

> As for just OOK, I suppose it may have value,
> especially in the sense of cheap, simple backup transmitters.
> However, I personally think us hams need to pull out of the
> 1980's and go for something with a little more bandwidth
> than 1200 baud packets.

Zack,

In the context of balloon transmitters where we're talking
about getting the signal through with maximum data fidelity
with minimum power, one actually wants as SLOW a data rate
as is practically possible.

State of the art modulation and detection schemes (that hams
use) can go way below 1 baud (deep space probes).

The discussion of what should be done with AX25 packet
for general use is another topic altogether.

I want to emphasize that, at least in the context stated
above, slower is better.

Hank

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2576. July 2006 Nuts and Volts issue or copy of article wanted

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 17:15:09 UTC
From: Hank
Topic: 2576 Message: 2576

Is there anyone who has a spare July issue around
who could mail it to me, or at least mail a copy
of one article? I pay full postage and copying of
course.

Hank

2577. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 17:46:52 UTC
From: Mike Manes
Topic: 2532 Message: 2577

Hank's right, Zack. For a given modulation scheme, increasing data rate requires broader receiver bandwidth, which raises the received noise power and thus the required ERP necessary to maintain an adequate SNR. The converse is also true, which is why PSK31 gets thru even when the signal is buried in the noise at a 3 KHz wide SSB receiver. DSP processing gain effectively reduces the receiver B/W to about 31 Hz - with a 20 dB improvement in SNR.

That's not to say that we shouldn't try faster data rates, however. But if we do, then we should also be prepared to feed a hungrier xmtr or use more antenna gain on the ground - or both.

Perhaps the quickest route to an 8x increase in downlink data rate would be to try 9600 baud PSK packet - radios and TNCs capable of that mode are available now. However, just be aware that those who have tried this mode, even on terrestrial links that are made easily using 1200 baud FSK, have had to do a lot of tweaking just to get it to work.

Mike

Hank Riley wrote:
>> As for just OOK, I suppose it may have value,
>> especially in the sense of cheap, simple backup transmitters.
>> However, I personally think us hams need to pull out of the
>> 1980's and go for something with a little more bandwidth
>> than 1200 baud packets.
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>
> In the context of balloon transmitters where we're talking
> about getting the signal through with maximum data fidelity
> with minimum power, one actually wants as SLOW a data rate
> as is practically possible.
>
> State of the art modulation and detection schemes (that hams
> use) can go way below 1 baud (deep space probes).
>
> The discussion of what should be done with AX25 packet
> for general use is another topic altogether.
>
> I want to emphasize that, at least in the context stated
> above, slower is better.
>
> Hank
>

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> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2578. Next Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 19:09:16 UTC
From: PAUL VERHAGE
Topic: 2578 Message: 2578

Ralph, I got a returned message, so I'm replying to GPSL.

I'm not planning anymore launches until next month or September. Those should be in Idaho. I'll email info when the day is nailed down.

Paul

2579. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 20:57:54 UTC
From: mconner1@gmail.com
Topic: 2532 Message: 2579
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2580. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 21:50:41 UTC
From: Ralph Wallio, W0RPK
Topic: 2532 Message: 2580

HABET-2, -3 and -4 all used 9600bps FSK 70cm downlinks back in 1993-1994. Our payloads used G3RUH
FSK modulators driving 1W UHF HTs and simple omni-directional monopole antennas. Our downlink
worked flawlessly.

Performance and throughput of 9600bps FSK is substantially better than 1200bps AFSK/FM when care is
taken with impedance matching and signal level between modulator and transmitter (the tweaking Mark
mentions).

OSCAR engineers consider 9600bps FSK to have 5.2dB -better- SNR performance than 1200bps AFSK/FM.
An 18dB Eb/No (SNR) is required for a bit-error-rate of 1E-05 with 9600bps FSK whereas 23.2dB is
required for 1200bps AFSK/FM.

Design and tweaking time and effort can provide significantly improved downlink bandwidth.

Taylor University is using off-the-shelf Part-15 (unlicensed) 902-928MHz spread spectrum radio/modems. FREEWAVE is one manufacturer of these (up to) 1W devices, see http://www.freewave.com/. They are comparatively expensive radio/modems but yield a fully error
corrected link with throughput far exceeding what we are doing with Ham Radio methods. (Taylor is
working on use of these devices in spacecraft with slant ranges out to ~3,000km.)

I have a pair of these devices available for testing. Roughly 11dB fixed site antenna gain is
required for a ~100-mile path. A link margin spreadsheet is available. But it is not Ham Radio.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storm

2581. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 22:30:40 UTC
From: mconner1@gmail.com
Topic: 2532 Message: 2581
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2582. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-21 22:33:44 UTC
From: Jeff Dailey
Topic: 2532 Message: 2582

We use the 900 Mhz unit as our main tracking in the
chase team van with a 6dB gain yagi pointing straight
up this has works very good and we have not lost the
link to the balloon. From the portable command trailer
with the 10dB gain yagi we are able to link with the
balloon over 157 miles with out lossing it.
The command Yagi is 10 feet above the ground and the
balloon with a 3dB patch can be linked to 2500 feet
above the ground.

Jeff Dailey
Taylor U.
BalloonSAT Program

--- mconner1@... wrote:

> You've got something of a working model to follow
> with Taylor Univ's 900 MHz setup. If you're going
> to make a leap in bandwidth, I think there are more
> benefits going that way rather than 9600-baud AX.25.
> While there's a lot of 9600-baud ham equipment out
> there, it seems to take a crapload of power and
> tweaking, and still requires optimum conditions.
> People on the APRS lists have reported relatively
> poor performance for mobile-to-fixed paths, and with
> a moving/wobbling balloon using a suboptimum antenna
> going to a mobile chase team increases the problems.
> I'm not sure it's worth the trouble for only an 8x
> bandwidth gain.
> I think, however, the Taylor Univ setup requires
> some gain on the receive end (Yagi), so it would not
> be all that good for mobile tracking as we're used
> to it. But they seem to have some success with it.
> I'm not sure how much they rely on their APRS for
> tracking and how much on 900 MHz. Their van rig has
> a Armstrong-steerable yagi as I remember it from
> GPSL 2005, plus they have even more gain on their
> base station.
> I suppose it's possible having 900 MHz QFH antennas
> on each end may provide enough gain for mobile
> tracking.
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Mike Manes <manes@...>
> Date: Monday, August 21, 2006 1:00 pm

> Subject: Re: [GPSL] PSK and Voice bandwidth FM / was
> Other PIC projects by Mike N0QBH
> To: Zack Clobes <zclobes@...>
> Cc: GPSL@yahoogroups.com, Hank Riley N1LTV
> <n1ltv@...>
>
> > Hank's right, Zack. For a given modulation
> scheme, increasing data
> > rate requires broader receiver bandwidth, which
> raises the received
> > noise power and thus the required ERP necessary to
> maintain an
> > adequateSNR. The converse is also true, which is
> why PSK31 gets
> > thru even when
> > the signal is buried in the noise at a 3 KHz wide
> SSB receiver. DSP
> > processing gain effectively reduces the receiver
> B/W to about 31
> > Hz -
> > with a 20 dB improvement in SNR.
> >
> > That's not to say that we shouldn't try faster
> data rates,
> > however. But
> > if we do, then we should also be prepared to feed
> a hungrier xmtr or
> > use more antenna gain on the ground - or both.
> >
> > Perhaps the quickest route to an 8x increase in
> downlink data rate
> > wouldbe to try 9600 baud PSK packet - radios and
> TNCs capable of
> > that mode are
> > available now. However, just be aware that those
> who have tried this
> > mode, even on terrestrial links that are made
> easily using 1200
> > baud FSK,
> > have had to do a lot of tweaking just to get it to
> work.
> >
> > Mike
> >
> > Hank Riley wrote:
> > >> As for just OOK, I suppose it may have value,
> > >> especially in the sense of cheap, simple backup
> transmitters.
> > >> However, I personally think us hams need to
> pull out of the

> > >> 1980's and go for something with a little more
> bandwidth
> > >> than 1200 baud packets.
> > >
> > > Zack,
> > >
> > > In the context of balloon transmitters where
> we're talking
> > > about getting the signal through with maximum
> data fidelity
> > > with minimum power, one actually wants as SLOW a
> data rate
> > > as is practically possible.
> > >
> > > State of the art modulation and detection
> schemes (that hams
> > > use) can go way below 1 baud (deep space
> probes).
> > >
> > > The discussion of what should be done with AX25
> packet
> > > for general use is another topic altogether.
> > >
> > > I want to emphasize that, at least in the
> context stated
> > > above, slower is better.
> > >
> > > Hank
> > >
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> ____
> > > Do You Yahoo!?
> > > Tired of spam? Yahoo! Mail has the best spam
> protection around
> > > http://mail.yahoo.com
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> > > Yahoo! Groups Links
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> > Mike Manes manes@... Tel:
> 303-979-4899
> > "Things should be made as simple as possible, but
> not more so."
> > A. Einstein
> >
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>

Do You Yahoo!?
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http://mail.yahoo.com

2583. Re: [GPSL] Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 00:15:03 UTC
From: Harry M
Topic: 2488 Message: 2583

Hi Mike,

No, I have no direct experience with the HH. The designer/developer, Steve Bragg and I used to be in a small rural HAM club in the Tulsa area. Steve would always ask what we thought about it as it evolved. Steve moved from this area to W. Virginny a couple years ago and I don't hear from him very often.

Several years ago as I was traveling from Roswell to Amarillo, I was just outside Clovis with a stand-alone tracker on the air and a HAM passed me and flagged me down. He had been tracking me using a HH and saw that we were close and thought it would be nice to have an eyeball out in the middle of nowhere.

That's my story and I'm stickin' to it!

:)

73 Harry

2584. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 02:34:29 UTC
From: Mark Conner
Topic: 2532 Message: 2584

Jeff,

Thanks for the details on your chase setup. I had remembered the yagi
being attached to the driver's side mirror and assumed that the driver
periodically had to repoint it.

If you make it to GPSL 2007 I'd like to take a closer look at your chase setup.

73 de Mark N9XTN

On 8/21/06, Jeff Dailey <jfdailey@...> wrote:
>
> We use the 900 Mhz unit as our main tracking in the
> chase team van with a 6dB gain yagi pointing straight
> up this has works very good and we have not lost the
> link to the balloon. From the portable command trailer
> with the 10dB gain yagi we are able to link with the
> balloon over 157 miles with out lossing it.
> The command Yagi is 10 feet above the ground and the
> balloon with a 3dB patch can be linked to 2500 feet
> above the ground.
>
> Jeff Dailey
> Taylor U.
> BalloonSAT Program
>
>

2585. Re: [GPSL] PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 03:57:50 UTC
From: mgray@ess-us.com
Topic: 2532 Message: 2585

I've had good luck with PSK-31 on HF on a couple balloon flights.
Transmitting around 1 watt at a limited data rate.

http://www.kd7lmo.net/ansr_28.html
http://www.kd7lmo.net/ansr_19.html

And info on the payload...

http://www.kd7lmo.net/psk31.html

On Mon, 21 Aug 2006, Hank Riley wrote:

>
> > As for just OOK, I suppose it may have value,
> > especially in the sense of cheap, simple backup transmitters.
> > However, I personally think us hams need to pull out of the
> > 1980's and go for something with a little more bandwidth
> > than 1200 baud packets.
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> Zack,
>
> In the context of balloon transmitters where we're talking
> about getting the signal through with maximum data fidelity
> with minimum power, one actually wants as SLOW a data rate
> as is practically possible.
>
> State of the art modulation and detection schemes (that hams
> use) can go way below 1 baud (deep space probes).
>
> The discussion of what should be done with AX25 packet
> for general use is another topic altogether.
>
> I want to emphasize that, at least in the context stated
> above, slower is better.
>
> Hank
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
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> Yahoo! Groups Links
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2586. Re: PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 13:43:38 UTC
From: D
Topic: 2532 Message: 2586

--- In GPSL@yahoogroups.com, Mike Manes <manes@...> wrote:
>
> Hank's right, Zack. For a given modulation scheme, increasing data
> rate requires broader receiver bandwidth, which raises the received
> noise power and thus the required ERP necessary to maintain an adequate
> SNR. The converse is also true, which is why PSK31 gets thru even when
> the signal is buried in the noise at a 3 KHz wide SSB receiver. DSP
> processing gain effectively reduces the receiver B/W to about 31 Hz -
> with a 20 dB improvement in SNR.
>
> That's not to say that we shouldn't try faster data rates, however. But
> if we do, then we should also be prepared to feed a hungrier xmtr or
> use more antenna gain on the ground - or both.

Before we start talking about increased data rates, I'd like to understand a bit better what the enhanced data rate would be used for. If we're only going to be sending status/location information, then does it really matter whether it's sent in .5 seconds or .1 seconds? For that matter, it might even be better to slow the data rate down, since position reports are really only needed ever few minutes, and take advantage of the narrower bandwidth and reduced transmitter power.

As for the increased data rate, I really doubt that we'll be sending any type of digitized live video (which requires a HUGE bandwidth) [2]. Even some type of SSTV or still pictures would require a rather large increase in the data rate (much greater than 9600 to be practical [1]).

[1] Yes, I know that people used to send images over 300 baud accoustical modems, but I'm trying to forget those horrible memories!

[2] There have been quite a few payloads which have downlinked live video over an analog channel. But, I assume we're primarily talking about digital data channels here, since the analog video channels already have a rather huge data rate/bandwidth.

I suppose what I'm really trying to get at is that the data rate needs to be large enough to handle the data that's being sent, but any larger is a waste.

> Perhaps the quickest route to an 8x increase in downlink data rate would
> be to try 9600 baud PSK packet - radios and TNCs capable of that
mode are

> available now. However, just be aware that those who have tried this
> mode, even on terrestrial links that are made easily using 1200 baud
FSK,
> have had to do a lot of tweaking just to get it to work.

I'm not sure that there would be much advantage to just going to 9600 baud. While that sounds like an 8X increase at first, the turn around time delays means that it's not quite as much of an increase. But, even an 8X increase wouldn't allow video, and almost certainly not reasonable resolution still pictures. That's way too slow for digitized voice. Thus, I'm not sure what 9600 baud would buy.

If someone is really interested in pushing the data rate up to the point where digitial photos could be downlinked, then 50K would seem to be the bare minimum, and faster would probably be better (Oh, and don't forget to consider the protocol so that lost packets don't ruin the image.). On the other hand, quite a few balloons have had real time (analog) video downlinks.

For the ultimate in bandwidth, one possibility might be some of the microwave bands. It should be reasonable to fly a 10 GHz Gunnplexor transmitter: power budget and weight, although it may be better to design a light weight cavity rather than use standard (heavy) waveguide and horn antenna. Given the mechanical dynamics of high altitude balloon flights, there may need to be a tradeoff between antenna gain and beamwidth (High gain doesn't do any good if the antenna is constantly pointed in the wrong direction due to winds swinging the payload, although some type of stabilization system might help). On the ground, though, it should be possible to use a reasonably sized dish antenna (even for mobile chase teams) to improve the received signal levels, and thus the S/N ratio.

Another possibility for ultimate bandwidth might be to use a laser transmitter on the payload. The advantage is that the beamwidth is extremely narrow, so the effective transmitter power is concentrated. The disadvantage is that the payload will almost certainly be swinging wildly, and the amount of time that the beam is centered on the receiver will be exceptionally short (but long enough for an ultra-high speed data packet to make it through?). A laser pointer is probably small and light enough that some type of gyroscopic stabilization system may be a possibility, although there would need to be a significant amount of mechanical design work done to support this. On the ground, the use of large (fresnel) lenses and narrow band optical filters to remove most of the ambient light might allow enough signal to be received to have a useful S/N ratio. Maybe. In any case, it might be something interesting to try, given that the payload weight should be fairly reasonable.

> Mike

Dave

2587. Fw: Far Horizons 1 images successfully retrieved!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 14:05:45 UTC
From: Ralph Wallio, W0RPK
Topic: 2587 Message: 2587
Attachments: 1 described; binary payloads are missing from this source WARC

A great new way to visualize ARHAB flight tracks! --w0rpk

----- Original Message -----
From: "Geza Gyuk" <ggyuk@...>

Sent: Monday, August 21, 2006 10:01 PM
Subject: Re: Far Horizons 1 images successfully retrieved!

Hello all,

Another image that might be of some interest is a Google Earth visualization based on the I'gated
telemetry that Mark Hammergren created depicting our flight path in three dimensions. The image has
no vertical exaggeration.

We'll get all these images and more up on a web site soon.

--Geza

2588. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 16:02:00 UTC
From: Ralph Wallio, W0RPK
Topic: 2532 Message: 2588

The HABET2-4 HT was an older commercial UHF radio crystalled to 446.000. G3RUH FSK modulation went
directly to the FM modulator bypassing all transmit audio stages, e.g., MIC AMP and IDC limiting.
This is a typical G3RUH FSK modulator to FM transmitter mating.

Hams can use the 902-928MHz band but these Part-15 radio/modems use spread spectrum modulation
which, when operated under Part-97, would have to follow spread spectrum requirements. Applicable
rules and regulations, Report and Order FCC99-234, can be found on TAPR's web site via
http://www.tapr.org/ss_fcc.html. The high points:

-- CW or phone IDs are required (Part-15 radio/modems do not have this capability).

-- Specific spread spectrum coding is required (typically not followed by Part-15 radio/modems).

-- Automatic transmitter power control is required, e.g., the receiver tells the transmitter to
reduce power until it is just above what is required for a reliable link (not provided by Part-15
radio/modems).

So we have three major problems with off-the-shelf Part-15 'wireless I/O' products: lack of IDing,
SS coding and lack of auto xmit pwr control. It would take major hacking to fix these problems with
Part-97 but they are Part-15 compatible off-the-shelf.

Well, four major problems. The cost of these units is several hundred dollars each.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2589. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 16:26:48 UTC
From: Hank Riley
Topic: 2532 Message: 2589

> Hams can use the 902-928MHz band but these Part-15 radio/modems
> use spread spectrum modulation which, when operated under
> Part-97, would have to follow spread spectrum requirements.

Ralph,

Thanks for the detailed description of the 440 MHz, 9600
baud setup, as well as the requirements for SS under
Part 97.

I'm not sure if it would be worth the effort to petition for
relaxation of some of the Part 97 rules since Part 15 is already
allowed for *use* by hams, but is not a ham-only privilege,
hence technically not ham radio.

CW ID might not be too hard to add.

Hank

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2590. Re: [GPSL] Fw: Far Horizons 1 images successfully retrieved!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 19:50:11 UTC
From: Joe
Topic: 2587 Message: 2590

Now THAT is COOL!!!

Ralph Wallio, W0RPK wrote:

> A great new way to visualize ARHAB flight tracks! --w0rpk
>
> ----- Original Message -----
> From: "Geza Gyuk" <ggyuk@...
> <mailto:ggyuk%40adlerplanetarium.org>>
>
> Sent: Monday, August 21, 2006 10:01 PM
> Subject: Re: Far Horizons 1 images successfully retrieved!
>
> Hello all,
>
> Another image that might be of some interest is a Google Earth
> visualization based on the I'gated
> telemetry that Mark Hammergren created depicting our flight path in
> three dimensions. The image has
> *no* vertical exaggeration.
>
> We'll get all these images and more up on a web site soon.
>
> --Geza
>
>
> --
>

2591. Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 21:07:29 UTC
From: Troy Campbell
Topic: 2587 Message: 2591

Guys,

Is anyone using absolute pressure senors?

If so, what make and model?

Most of the sensors I've found that will meassure down to 2-3 millibars and are temperature compensated all appear to require some amplifier or driver circuitry as their ouput is in the millivolt range.

I'm going to want to use a Basic Stamp to read it, so it would be nice if there was something that could be connected without a lot of support circuitry.

Thanks in advance!

73 de Troy KC0MIC

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2592. Re: [GPSL] PSK and Voice bandwidth FM

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 22:15:05 UTC
From: Mike Manes
Topic: 2532 Message: 2592

The 900 MHz ham band does overlap the 900 MHz Part 15 "electromagnetic
toxic waste dump" -- but it's still quite usable, since hams can use
any legal mode and up to 1.5 kw there :=}. Not the point for a balloon
downlink, tho.
73 de Mike W5VSI

Hank Riley wrote:
>> Hams can use the 902-928MHz band but these Part-15 radio/modems
>> use spread spectrum modulation which, when operated under
>> Part-97, would have to follow spread spectrum requirements.
>
> Ralph,
>
> Thanks for the detailed description of the 440 MHz, 9600
> baud setup, as well as the requirements for SS under
> Part 97.
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> I'm not sure if it would be worth the effort to petition for
> relaxation of some of the Part 97 rules since Part 15 is already
> allowed for *use* by hams, but is not a ham-only privilege,
> hence technically not ham radio.
>
> CW ID might not be too hard to add.
>
> Hank
>
> _____
> Do You Yahoo!?
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> http://mail.yahoo.com
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2593. Re: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 22:37:19 UTC
From: mconner1@gmail.com
Topic: 2587 Message: 2593

NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty reliable data out of it. The main issue is that the upper end goes to 5V and our current A/D converter has a limit of 4.096V, so the higher pressures are clipped to 929 millibars. Not a big deal. Needs only 5V in, minimal current draw.

I'm not sure of the absolute calibration, but it does great for detecting relative pressure changes.

- Mark

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Tuesday, August 22, 2006 4:11 pm
Subject: [GPSL] Pressure sensor
To: GPSL@yahoogroups.com

> Guys,
>
> Is anyone using absolute pressure senors?
>
> If so, what make and model?
>
> Most of the sensors I've found that will meassure down to 2-3
> millibars and are temperature compensated all appear to require
> some amplifier or driver circuitry as their ouput is in the
> millivolt range.
>
> I'm going to want to use a Basic Stamp to read it, so it would be
> nice if there was something that could be connected without a lot
> of support circuitry.
>
> Thanks in advance!
>
> 73 de Troy KC0MIC
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2¢/min or less.
>

2594. Re: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 00:33:26 UTC
From: Troy Campbell
Topic: 2587 Message: 2594

The specs for it are just about perfect! Except digikey sells it for $33.00 Do you maybe know of another source (more cheaper?)

Troy

mconner1@... wrote: NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty reliable data out of it. The main issue is that the upper end goes to 5V and our current A/D converter has a limit of 4.096V, so the higher pressures are clipped to 929 millibars. Not a big deal. Needs only 5V in, minimal current draw.

I'm not sure of the absolute calibration, but it does great for detecting relative pressure changes.

- Mark

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Tuesday, August 22, 2006 4:11 pm
Subject: [GPSL] Pressure sensor
To: GPSL@yahoogroups.com

> Guys,
>
> Is anyone using absolute pressure senors?
>
> If so, what make and model?
>
> Most of the sensors I've found that will meassure down to 2-3
> millibars and are temperature compensated all appear to require
> some amplifier or driver circuitry as their ouput is in the
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>
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> nice if there was something that could be connected without a lot
> of support circuitry.
>
> Thanks in advance!
>
> 73 de Troy KC0MIC
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2?/min or less.
>

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http://mail.yahoo.com

2595. Two Items for Checklist

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 21:49:44 UTC
From: PAUL VERHAGE
Topic: 2595 Message: 2595

On my last two launches, I came across items to add to check lists.

The first is to check the raw TNC data instead of just relying on the plotted position on Street Atlas. On my 06F launch, OIT launched their balloon after seeing that its position was properly shown at the campus. It turns out the GPS/TNC were just transmitting their last known location and not making updates.

The second is to measure continuity on the antenna elements before launch. On my 06G flight there was a broken wire on my dipole antenna. We received fixes from the near spacecraft while it was on the ground, but lost them in flight. Once it was near the ground we began receiving fixes again.

Paul

2596. Re: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 01:16:13 UTC
From: Mike Manes
Topic: 2587 Message: 2596

That's a pretty darn good price for a conditioned absolute transducer!
If you want cheaper, you'll have to roll your own instrument amp / signal conditioner to work with the raw strain guage signal.

EOSS uses an older version of the Honeywell that has a 1 - 6V output and runs off +8Vdc. It does have great specs, tho, but runs more like $75.

73 de Mike W5VSI

Troy Campbell wrote:
> The specs for it are just about perfect! Except digikey sells it for
> $33.00 Do you maybe know of another source (more cheaper?)
>
> Troy
>
> */mconner1@.../* wrote:
>
> NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty
> reliable data out of it. The main issue is that the upper end goes
> to 5V and our current A/D converter has a limit of 4.096V, so the
> higher pressures are clipped to 929 millibars. Not a big deal. Needs
> only 5V in, minimal current draw.
>
> I'm not sure of the absolute calibration, but it does great for
> detecting relative pressure changes.
>
> - Mark
>
> ----- Original Message -----
> From: Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> Date: Tuesday, August 22, 2006 4:11 pm
> Subject: [GPSL] Pressure sensor
> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
>
> > Guys,
> >
> > Is anyone using absolute pressure senors?
> >
> > If so, what make and model?
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> > Most of the sensors I've found that will meassure down to 2-3
> > millibars and are temperature compensated all appear to require
> > some amplifier or driver circuitry as their ouput is in the
> > millivolt range.
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> > I'm going to want to use a Basic Stamp to read it, so it would be

> > nice if there was something that could be connected without a lot
> > of support circuitry.
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> > Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2597. Re: [GPSL] Re: PSK and Voice bandwidth FM / was Other PIC projects by Mike N0QBH

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-22 22:04:35 UTC
From: Mike Manes
Topic: 2532 Message: 2597

Hi Dave,
I guess that was addressed to me. And I agree that there's no point
in flying more bandwidth than what you need. However, we have flown
a number of student experiments that generated a huge amount of data.
At one time long ago, we would have tried to downlink it in real time.
However, with the advent of cheap, light data loggers, e.g. the Onset
Hobos and flash disks, downlinking has been replaced by payload recovery.
Logged data is correlated to flight parameters (time, altitude, lat/lon,
etc) via EOSS's own APRS data log on our web site.

73 de Mike W5VSI

D wrote:
> --- In GPSL@yahoogroups.com, Mike Manes <manes@...> wrote:
>> Hank's right, Zack. For a given modulation scheme, increasing data
>> rate requires broader receiver bandwidth, which raises the received
>> noise power and thus the required ERP necessary to maintain an adequate
>> SNR. The converse is also true, which is why PSK31 gets thru even when
>> the signal is buried in the noise at a 3 KHz wide SSB receiver. DSP
>> processing gain effectively reduces the receiver B/W to about 31 Hz -
>> with a 20 dB improvement in SNR.
>>
>> That's not to say that we shouldn't try faster data rates, however. But
>> if we do, then we should also be prepared to feed a hungrier xmtr or
>> use more antenna gain on the ground - or both.
>
> Before we start talking about increased data rates, I'd like to
> understand a bit better what the enhanced data rate would be used
> for. If we're only going to be sending status/location information,
> then does it really matter whether it's sent in .5 seconds or .1
> seconds? For that matter, it might even be better to slow the data
> rate down, since position reports are really only needed ever few
> minutes, and take advantage of the narrower bandwidth and reduced
> transmitter power.
>
> As for the increased data rate, I really doubt that we'll be sending
> any type of digitized live video (which requires a HUGE bandwidth)
> [2]. Even some type of SSTV or still pictures would require a
> rather large increase in the data rate (much greater than 9600 to
> be practical [1]).
>
> [1] Yes, I know that people used to send images over 300 baud
> accoustical modems, but I'm trying to forget those horrible
> memories!

>
> [2] There have been quite a few payloads which have downlinked
> live video over an analog channel. But, I assume we're primarily
> talking about digital data channels here, since the analog video
> channels already have a rather huge data rate/bandwidth.
>
> I suppose what I'm really trying to get at is that the data rate
> needs to be large enough to handle the data that's being sent, but
> any larger is a waste.
>
>> Perhaps the quickest route to an 8x increase in downlink data rate would
>> be to try 9600 baud PSK packet - radios and TNCs capable of that
> mode are
>> available now. However, just be aware that those who have tried this
>> mode, even on terrestrial links that are made easily using 1200 baud
> FSK,
>> have had to do a lot of tweaking just to get it to work.
>
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> 9600 baud. While that sounds like an 8X increase at first, the
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> increase. But, even an 8X increase wouldn't allow video, and almost
> certainly not reasonable resolution still pictures. That's way too
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> buy.
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> If someone is really interested in pushing the data rate up to the
> point where digitial photos could be downlinked, then 50K would seem
> to be the bare minimum, and faster would probably be better (Oh, and
> don't forget to consider the protocol so that lost packets don't
> ruin the image.). On the other hand, quite a few balloons have
> had real time (analog) video downlinks.
>
> For the ultimate in bandwidth, one possibility might be some of the
> microwave bands. It should be reasonable to fly a 10 GHz Gunnplexor
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> waveguide and horn antenna. Given the mechanical dynamics of high
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> antenna gain and beamwidth (High gain doesn't do any good if the
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> swinging the payload, although some type of stabilization system
> might help). On the ground, though, it should be possible to use
> a reasonably sized dish antenna (even for mobile chase teams) to
> improve the received signal levels, and thus the S/N ratio.
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> Another possibility for ultimate bandwidth might be to use a laser
> transmitter on the payload. The advantage is that the beamwidth is
> extremely narrow, so the effective transmitter power is concentrated.
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> swinging wildly, and the amount of time that the beam is centered on
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> ultra-high speed data packet to make it through?). A laser pointer
> is probably small and light enough that some type of gyroscopic
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> to be a significant amount of mechanical design work done to support
> this. On the ground, the use of large (fresnel) lenses and narrow
> band optical filters to remove most of the ambient light might allow
> enough signal to be received to have a useful S/N ratio. Maybe. In
> any case, it might be something interesting to try, given that the
> payload weight should be fairly reasonable.
>
>> Mike
>
> Dave
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2598. Re: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 10:56:04 UTC
From: Troy Campbell
Topic: 2587 Message: 2598

I'm am a Scottsman you know, sorta. I had to at least *try* to get it cheaper.

Thanks again Mark.

73 de Troy KC0MIC

Mike Manes <manes@...> wrote: That's a pretty darn good price for a conditioned absolute transducer!
If you want cheaper, you'll have to roll your own instrument amp / signal conditioner to work with the raw strain guage signal.

EOSS uses an older version of the Honeywell that has a 1 - 6V output and runs off +8Vdc. It does have great specs, tho, but runs more like $75.

73 de Mike W5VSI

Troy Campbell wrote:
> The specs for it are just about perfect! Except digikey sells it for
> $33.00 Do you maybe know of another source (more cheaper?)
>
> Troy
>
> */mconner1@.../* wrote:
>
> NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty
> reliable data out of it. The main issue is that the upper end goes
> to 5V and our current A/D converter has a limit of 4.096V, so the
> higher pressures are clipped to 929 millibars. Not a big deal. Needs
> only 5V in, minimal current draw.
>
> I'm not sure of the absolute calibration, but it does great for
> detecting relative pressure changes.
>
> - Mark
>
> ----- Original Message -----
> From: Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> Date: Tuesday, August 22, 2006 4:11 pm
> Subject: [GPSL] Pressure sensor
> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
>
> > Guys,
> >
> > Is anyone using absolute pressure senors?
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> > If so, what make and model?

> >
> > Most of the sensors I've found that will meassure down to 2-3
> > millibars and are temperature compensated all appear to require
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> > I'm going to want to use a Basic Stamp to read it, so it would be
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

----
Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at
1?/min.

2599. Re: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 01:18:21 UTC
From: Mark Conner
Topic: 2587 Message: 2599

None that I know of, that's about what I paid for it from DigiKey also.

- Mark

On 8/22/06, Troy Campbell <kc0mic@...> wrote:
> The specs for it are just about perfect! Except digikey sells it for $33.00 Do you maybe know of another source (more cheaper?)
>
> Troy
>
>
> mconner1@... wrote:
>
>
> NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty reliable data out of it. The main issue is that the upper end goes to 5V and our current A/D converter has a limit of 4.096V, so the higher pressures are clipped to 929 millibars. Not a big deal. Needs only 5V in, minimal current draw.
>
> I'm not sure of the absolute calibration, but it does great for detecting relative pressure changes.
>
> - Mark
>

2600. Data logging

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 14:17:41 UTC
From: mconner1@gmail.com
Topic: 2600 Message: 2600

Mike brought up data logging, which prompted me to go look for a data logger for storage to an SD card. I was really looking for another one I had found last year, but instead stumbled across this one:

http://www.sparkfun.com/commerce/product_info.php?products_id=752

This one can log serial ASCII data sent from a BS2 or GPS to an SD card up to 1.0 Gbytes in size (they're testing a 2Gb card). It also has a 10-channel A/D converter which can log up to 1500 samples per second (1500 Hz using one channel, or 150 Hz using all ten, or something in between). Price is $60.

The same site also has a 3-axis accelerometer for $40, which I think is pretty good. SPI or I2C interface. There are also some low-cost wireless TX/RX modules which could be used to send serial data from one payload to another.

73 de Mark N9XTN

2601. Re: Data logging

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 15:02:43 UTC
From: Hank
Topic: 2600 Message: 2601

>Mike brought up data logging, which prompted me to go look for a
>data logger for storage to an SD card. I was really looking for
>another one I had found last year, but instead stumbled across
>this one:

> http://www.sparkfun.com/commerce/product_info.php?products_id=752

Mark,

Good link, but too expensive for me.

Please keep looking for alternatives. I've seen some
stuff a year ago that was in the formative stages
(almost semi-DIY plans), so will look again to see
what's happened since. If we could get this done on
a PIC, maybe a balloon group PC board design and buy
could be accomplished (design board, buy boards, build
loggers).

Hank

2602. Re: [GPSL] Data logging

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 15:11:34 UTC
From: Troy Campbell
Topic: 2600 Message: 2602

I bought a gps/datalogger from these guys. It works great but will only record the GPS and there wasn't any way to tap the serial line from the GPS so that it could be fed to the TNC (tinytrak III). I haven't flown it yet but the GPS specs say that it will operate above 60000ft (if you keep the speed under Mach I)

It's very tiny, very light and a set of 4 akalines last about 6 hours (on the ground)

http://www.sparkfun.com/commerce/product_info.php?products_id=671

I wish there was a way to pull serial data from the GPS.

I didn't notice their standalone datalogger. It looks pretty functional for what we do. There was another one from rogue robotics we were considering. It's $50 canadian and appears to have about the same functionality minus the ADC channels

http://www.roguerobotics.com/products/electronics/ummc

The biggest difference (I think) is that the uumc logger will require software to open/close the files, write in a formatted fashion and "chunk" the data.

The sparkfun module will let you write a configuration file onto the SD card from another computer so that the logger will boot up automatically and just start doing what you want.

The sparkfun logger uses an ARM processor and consumes more power than the rogue unit.

The rogue unit is a bit more flexible in terms of file operations, but the sparkfun module has 10 ADC channels.

Either is workable.

In general, sparkfun has got a lot of stuff usable for ARHAB.

73 de Troy KC0MIC

mconner1@... wrote: Mike brought up data logging, which prompted me to go look for a data logger for storage to an SD card. I was really looking for another one I had found last year, but instead stumbled across this one:

http://www.sparkfun.com/commerce/product_info.php?products_id=752

This one can log serial ASCII data sent from a BS2 or GPS to an SD card up to 1.0 Gbytes in size (they're testing a 2Gb card). It also has a 10-channel A/D converter which can log up to 1500 samples per second (1500 Hz using one channel, or 150 Hz using all ten, or something in between). Price is $60.

The same site also has a 3-axis accelerometer for $40, which I think is pretty good. SPI or I2C interface. There are also some low-cost wireless TX/RX modules which could be used to send serial data from one payload to another.

73 de Mark N9XTN

Talk is cheap. Use Yahoo! Messenger to make PC-to-Phone calls. Great rates starting at 1?/min.

2603. Re: [GPSL] Data logging

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 15:26:23 UTC
From: Troy Campbell
Topic: 2600 Message: 2603

Another thing about sparkfun is that the product description on the web site will lead you to believe that the product will do just slightly more that the specifcations say it will do.

In the case of the 'log-o-matic', it does say it will store serial ascii and has 10 ADC channels. When you read the specs, though, you find that it the modes are mutally exclusive. The log-o-matic will record serial ascii OR ADC data but not both at the same time. That's not necessarily bad, just that you should know about it before you start designing around it.

(see paragraph 3.1 of
http://www.sparkfun.com/datasheets/Widgets/Logomatic/Logomatic_V1_0.PDF)

The other difference between the uumc and the log-o-matic is that the uumc supports FAT-32 and 2gb SD cards. The log-o-matic supports FAT-16 and 1gb SD cards.

The logomatic still looks like it's easier to hook to a BS2 though.

73 de Troy KC0MIC

mconner1@... wrote: Mike brought up data logging, which prompted me to go look for a data logger for storage to an SD card. I was really looking for another one I had found last year, but instead stumbled across this one:

http://www.sparkfun.com/commerce/product_info.php?products_id=752

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The same site also has a 3-axis accelerometer for $40, which I think is pretty good. SPI or I2C interface. There are also some low-cost wireless TX/RX modules which could be used to send serial data from one payload to another.

73 de Mark N9XTN

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2604. Re: [GPSL] Data logging

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 16:49:59 UTC
From: mconner1@gmail.com
Topic: 2600 Message: 2604
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2605. RE: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 02:38:01 UTC
From: Roger Hammond
Topic: 2587 Message: 2605

Troy,

CNNSP also uses the Honeywell ASDX015A24R with a HOBO datalogger. We lose some resolution through the HOBO due to the fact that the input to the datalogger is 0 to 2.5 volts.
You might try Allied Electronics, they're a little cheaper, but not much.

http://www.alliedelec.com/Search/ProductDetail.asp?SKU=643-0092
<http://www.alliedelec.com/Search/ProductDetail.asp?SKU=643-0092&SEARCH=ASDX015A24R&n=&MPN=ASDX015A24R&DESC=ASDX015A24R>
&SEARCH=ASDX015A24R&n=&MPN=ASDX015A24R&DESC=ASDX015A24R

-Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Tuesday, August 22, 2006 7:33 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Pressure sensor

The specs for it are just about perfect! Except digikey sells it for $33.00
Do you maybe know of another source (more cheaper?)

Troy

mconner1@gmail.com wrote:

NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty reliable data out of it. The main issue is that the upper end goes to 5V and our current A/D converter has a limit of 4.096V, so the higher pressures are clipped to 929 millibars. Not a big deal. Needs only 5V in, minimal current draw.

I'm not sure of the absolute calibration, but it does great for detecting relative pressure changes.

- Mark

----- Original Message -----
From: Troy Campbell <kc0mic@yahoo. <mailto:kc0mic%40yahoo.com> com>
Date: Tuesday, August 22, 2006 4:11 pm
Subject: [GPSL] Pressure sensor
To: GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com

> Guys,
>
> Is anyone using absolute pressure senors?
>

> If so, what make and model?
>
> Most of the sensors I've found that will meassure down to 2-3
> millibars and are temperature compensated all appear to require
> some amplifier or driver circuitry as their ouput is in the
> millivolt range.
>
> I'm going to want to use a Basic Stamp to read it, so it would be
> nice if there was something that could be connected without a lot
> of support circuitry.
>
> Thanks in advance!
>
> 73 de Troy KC0MIC
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2¢/min or less.
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http://mail.yahoo.com

2606. RE: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 21:49:38 UTC
From: Troy Campbell
Topic: 2587 Message: 2606

Thanks Roger. I'd pretty much decided to to go with that sensor.

Did you receive your repeater?

Troy

Roger Hammond <rahammond@...> wrote:
Troy,

CNNSP also uses the Honeywell ASDX015A24R with a HOBO datalogger. We lose some resolution through the HOBO due to the fact that the input to the datalogger is 0 to 2.5 volts.
You might try Allied Electronics, they're a little cheaper, but not much.

http://www.alliedelec.com/Search/ProductDetail.asp?SKU=643-0092&SEARCH=ASDX015A24R&n=&MPN=ASDX015A24R&DESC=ASDX015A24R

-Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Tuesday, August 22, 2006 7:33 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Pressure sensor

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I'm not sure of the absolute calibration, but it does great for detecting relative pressure changes.

- Mark

----- Original Message -----
From: Troy Campbell <kc0mic@...>
Date: Tuesday, August 22, 2006 4:11 pm
Subject: [GPSL] Pressure sensor
To: GPSL@yahoogroups.com

> Guys,
>

> Is anyone using absolute pressure senors?
>
> If so, what make and model?
>
> Most of the sensors I've found that will meassure down to 2-3
> millibars and are temperature compensated all appear to require
> some amplifier or driver circuitry as their ouput is in the
> millivolt range.
>
> I'm going to want to use a Basic Stamp to read it, so it would be
> nice if there was something that could be connected without a lot
> of support circuitry.
>
> Thanks in advance!
>
> 73 de Troy KC0MIC
>
>
> ---------------------------------
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and
> 30+ countries) for 2?/min or less.
>

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http://mail.yahoo.com

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Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2607. Re: [GPSL] Two Items for Checklist

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-23 23:42:49 UTC
From: Mike Manes
Topic: 2595 Message: 2607

A more effective way to check your antenna is with a simple field strength meter. I use the old Rat Shack CB SWR meter, but one can make one using a sensitive panel meter (100 uA FS or so) with a signal diode across the meter terminals - then add that assy to a simple dipole (a couple of 6" pieces of wire will do). When you know the antenna is working, check the distance from the antenna to meter to get a full scale reading.

This saved one flight 'way back when.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> On my last two launches, I came across items to add to check lists.
>
> The first is to check the raw TNC data instead of just relying on the
> plotted position on Street Atlas. On my 06F launch, OIT launched their
> balloon after seeing that its position was properly shown at the campus.
> It turns out the GPS/TNC were just transmitting their last known
> location and not making updates.
>
> The second is to measure continuity on the antenna elements before
> launch. On my 06G flight there was a broken wire on my dipole antenna.
> We received fixes from the near spacecraft while it was on the ground,
> but lost them in flight. Once it was near the ground we began receiving
> fixes again.
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> Paul
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2608. Re: [GPSL] Data logging

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-24 00:09:20 UTC
From: Mike Manes
Topic: 2600 Message: 2608

Whoa! Such a deal compared to the Onset Hobos being used in SGC balloonsats!
Hook one up to your GPS NMEA output and get a complete flight profile
after recovery, and that 10-ch ADC is real intruiging as well. Wonder if
it'll work down to -20C?

73 de Mike W5SVI

mconner1@... wrote:
> Mike brought up data logging, which prompted me to go look for a data logger for storage to an SD card. I was really looking for another one I had found last year, but instead stumbled across this one:
>
> http://www.sparkfun.com/commerce/product_info.php?products_id=752
>
> This one can log serial ASCII data sent from a BS2 or GPS to an SD card up to 1.0 Gbytes in size (they're testing a 2Gb card). It also has a 10-channel A/D converter which can log up to 1500 samples per second (1500 Hz using one channel, or 150 Hz using all ten, or something in between). Price is $60.
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> The same site also has a 3-axis accelerometer for $40, which I think is pretty good. SPI or I2C interface. There are also some low-cost wireless TX/RX modules which could be used to send serial data from one payload to another.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
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2609. Re: [GPSL] Pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-24 13:20:57 UTC
From: PAUL VERHAGE
Topic: 2587 Message: 2609

I'm using a SM5812 from Semiconductor Micro Structures for a sensor. I believe it can be ordered for a wide range of pressure ranges. They cost $32 a piece, but I was lucky and got two as samples.

I'll eventually write an article on using one as part of a weather station for near space.

Paul

>>> Mike Manes <manes@...> 8/22/2006 7:16:13 pm >>>
That's a pretty darn good price for a conditioned absolute transducer!
If you want cheaper, you'll have to roll your own instrument amp / signal
conditioner to work with the raw strain guage signal.

EOSS uses an older version of the Honeywell that has a 1 - 6V output and
runs off +8Vdc. It does have great specs, tho, but runs more like $75.

73 de Mike W5VSI

Troy Campbell wrote:
> The specs for it are just about perfect! Except digikey sells it for
> $33.00 Do you maybe know of another source (more cheaper?)
>
> Troy
>
> */mconner1@.../* wrote:
>
> NSTAR is using a Honeywell ASDX015A24R sensor. We get pretty
> reliable data out of it. The main issue is that the upper end goes
> to 5V and our current A/D converter has a limit of 4.096V, so the
> higher pressures are clipped to 929 millibars. Not a big deal. Needs
> only 5V in, minimal current draw.
>
> I'm not sure of the absolute calibration, but it does great for
> detecting relative pressure changes.
>
> - Mark
>
> ----- Original Message -----
> From: Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> Date: Tuesday, August 22, 2006 4:11 pm
> Subject: [GPSL] Pressure sensor
> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
>
> > Guys,
> >
> > Is anyone using absolute pressure senors?

> >
> > If so, what make and model?
> >
> > Most of the sensors I've found that will meassure down to 2-3
> > millibars and are temperature compensated all appear to require
> > some amplifier or driver circuitry as their ouput is in the
> > millivolt range.
> >
> > I'm going to want to use a Basic Stamp to read it, so it would be
> > nice if there was something that could be connected without a lot
> > of support circuitry.
> >
> > Thanks in advance!
> >
> > 73 de Troy KC0MIC
> >
> >
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> ____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
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Mike Manes manes@... Tel: 303-979-4899
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Yahoo! Groups Links

2610. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-24 19:01:43 UTC
From: PAUL VERHAGE
Topic: 2569 Message: 2610

I'm thinking of a certificate for individuals. So there's no awards to handout. The average of my flights is a ground path of around 40-50 miles. Launching and recovering in most states should be possible with those kinds of ground tracks. It may mean, however, that you'll have to wait until weather conditions are right to launch in a small state. But we already have that with the traditional Worked All States award when you have to wait until propagation conditions are proper.

As far as recovery, I would expect that an attempt was made. I don't want to see people winner the award because they launched a balloon with clock crystal oscillator without even planning to chase and recover it.

Paul

>>> Mike Manes <manes@...> 8/20/2006 9:35:02 pm >>>
Hi Paul,

Would this award go to individuals or entire groups? If for groups, then
a single magazine subscription isn't really of value. However, if it
covered fuel costs ... :=}

I'd suggest that a flight crosses state lines, then ALL states which
the flight crosses should count towards the total. This would give
some leverage to the smaller NE states, which would partially
compensate
for the likelihood of a maritime landing. It would also tip the
scales
towards long-duration flights.

I do think that recovery should be a requirement, however; what
constitutes
an "honest effort"? A return address sticker? Perhaps maritime
landings
could be exempted - but as U PR SGC has shown, maritime recoveries are
indeed
feasible, and with proper forecasting, both avoidable and not
unexpected.

Lessee ... by this standard, EOSS has launched from CO, WY, KS & IA
and
recovered from CO, WY, KS, IA and NE. We've crossed the CO/WY, CO/NE
&
WY/NE state lines.

73 de Mike W5VSI, EOSS

PS: Would this be a good time to reintroduce the gross tonnage award
:=}?

PAUL VERHAGE wrote:
> We'll I launch in my 8th state this weekend.
>
> I'd like to start the launched all states award that I mentioned at
GPSL
> 2006. Here's some ideas I have. I'd like to get some more
opinions.
>
> I think the award should be given for balloon flights that reach
near
> space (60,000? feet or higher). The launch must have been recovered,
or
> at least there must have been an honest effort to recover it.
Perhaps
> the launch should have also recovered in the same state, so the
award
> also includes a recovered all states award.
>
> I don't know what to do about people who are attending a launch but
did
> make the near spacecraft. I think you should only be awarded a state
if
> the stack includes a payload that belongs to you. So someone who
made a
> non-tracking BalloonSat is eligible for the award, even though they
> depend on the tracking near spacecraft to get the BalloonSat back.
>
> To be eligible, I think you should be there to launch, chase, and
> recover.
>
> Ideas?
>
> I would issue an award for every five states.
>
> Paul
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A.
Einstein

2611. New Video

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-25 13:47:59 UTC
From: PAUL VERHAGE
Topic: 2611 Message: 2611

I've uploaded a new video to youtube.com. In couple of hours you should be able to watch the flight of NearSys 06G. This was a launch for the Adler Planetarium. In it, I have footage of the balloon bursting. I could run it in slow motion, but couldn't so single frames. I'll see if I can get the software to do that and make a video just on that.

In my crude attempts to stop the frames, I can see that ripples run down the balloon as it shreds from the top.

Paul

2612. Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-26 22:46:57 UTC
From: Zack Clobes
Topic: 2612 Message: 2612

We've always flown the GPGGA/RMC strings for a variety of reasons. I'm now looking at converting over the ?more standard? single string format.

APRS:@164428h4029.84N/10427.34WO234/038/A=092748

Those who have flown (or tracked) the above string format with 1/100 of a minute resolution, do you have any regrets? I realize that GPS's only "guarantee" about 30' of resolution, which is about what you lose by dropping the last two digits of the Lat/Lon.

Also, does anyone know if it's possible to throw in all four of the decimal digits in the above string and still get software to track it?

Zack Clobes, W0ZC
Project: Traveler

2613. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 02:15:07 UTC
From: Mark Conner
Topic: 2612 Message: 2613
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2614. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 00:50:35 UTC
From: Mike Manes
Topic: 2612 Message: 2614

Hi Zack,

That looks like the TinyTrak 3 ASCII format. It works and it's short,
but it doesn't show the status of the GPS signal. As Paul reported,
it's nice to know whether the GPS solution is valid (RMC) and how many
birds are in track (GGA). As a minimum, I'd stick with just GGA if you
can't add a validity field to the report (I think that format does
accommodate a "comment" field.)

73 de Mike W5VSI

Zack Clobes wrote:
> We've always flown the GPGGA/RMC strings for a variety of reasons. I'm
> now looking at converting over the ?more standard? single string format.
>
> APRS:@164428h4029.84N/10427.34WO234/038/A=092748
>
> Those who have flown (or tracked) the above string format with 1/100 of
> a minute resolution, do you have any regrets? I realize that GPS's only
> "guarantee" about 30' of resolution, which is about what you lose by
> dropping the last two digits of the Lat/Lon.
>
> Also, does anyone know if it's possible to throw in all four of the
> decimal digits in the above string and still get software to track it?
>
> Zack Clobes, W0ZC
> Project: Traveler
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
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2615. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 20:18:14 UTC
From: Mark Conner
Topic: 2612 Message: 2615

If you roll your own posits using a PIC or BS2, you can do what NSTAR
does and put satellite status information in the comment field at the
end of the posit. Then you still have
time/lat/lon/course/speed/altitude in one report, plus how well your
GPS is performing.

73 de Mark N9XTN

On 8/26/06, Mike Manes <manes@...> wrote:
>
>
> Hi Zack,
>
> That looks like the TinyTrak 3 ASCII format. It works and it's short,
> but it doesn't show the status of the GPS signal. As Paul reported,
> it's nice to know whether the GPS solution is valid (RMC) and how many
> birds are in track (GGA). As a minimum, I'd stick with just GGA if you
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> > Also, does anyone know if it's possible to throw in all four of the
> > decimal digits in the above string and still get software to track it?
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> > Project: Traveler
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> > Yahoo! Groups Links
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2616. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 20:46:58 UTC
From: Zack Clobes
Topic: 2612 Message: 2616

Yes, I'm rolling my own controller. At this point, I'm leaning towards the single-packet posit, but having a flexible telemetry packet to supplement the posit.

Would the APRS powers that be have a fit with occasional telemetry packets that looked something like what follows? Having the data in an XML format would make it expandable as well as self-defining all at the same time. The following snippet comes out to roughly 300 bytes, and could easily grow to 600-1000 bytes before it's all said and done.

XML admittedly isn't the most efficient use of bandwidth, but hey, once I get my 384kbps duplex datalink going, that won't be a factor.. ;-)

```
<xml>
<telem>
<gps sats="6" lock="A">
<time>143523</time>
<lat>38 34.1234N</lat>
<lon>97 32.1234W</lon>
</gps>
<burst alt="29324" time="142303" />
<sensors>
<oat>-35</oat>
<iat>2</iat>
<batt1>8.32</batt1>
<pics_taken>54</pics_taken>
<atv>ON</atv>
<cutdown1>ON</cutdown1>
<cutdown2>OFF</cutdown2>
</sensors>
</telem>
</xml>
```

Mark Conner wrote:
>
> If you roll your own posits using a PIC or BS2, you can do what NSTAR
> does and put satellite status information in the comment field at the
> end of the posit. Then you still have
> time/lat/lon/course/speed/altitude in one report, plus how well your
> GPS is performing.
>
> 73 de Mark N9XTN
>
> On 8/26/06, Mike Manes <manes@...
> <mailto:manes%40attglobal.net>> wrote:
> >

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> > > APRS:@164428h4029.84N/10427.34WO234/038/A=092748
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> > Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.

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>

2617. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 21:22:18 UTC
From: mgray@ess-us.com
Topic: 2612 Message: 2617

As a side note to using XML for telemetry, there is a standard GPX (GPS Exchange Format) that utilizes XML. The format is supported for import and export by a number of applications including Garmin's Map Source and Google Earth.

http://www.topografix.com/gpx.asp

However, I would be inclined to continue the use of standard GGA/RMC packets for any tracking applications. That gives the most number of users the ability to track and recover a payload. I've flown a number of high speed data links, but it wasn't very useful because I was the only one who could receive them.

1200 baud A-FSK APRS isn't perfect, but it has by far the widest user group.

If you want more accurate data, I would log the raw data on board the payload at a higher rate (say every 1-5 seconds). You'll have full GPS resolution and a lot more data then you'll ever send and receive over an RF link.

On Sun, 27 Aug 2006, Zack Clobes wrote:

> Yes, I'm rolling my own controller. At this point, I'm leaning towards
> the single-packet posit, but having a flexible telemetry packet to
> supplement the posit.
>
> Would the APRS powers that be have a fit with occasional telemetry
> packets that looked something like what follows? Having the data in an
> XML format would make it expandable as well as self-defining all at the
> same time. The following snippet comes out to roughly 300 bytes, and
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> > 73 de Mark N9XTN
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> > On 8/26/06, Mike Manes <manes@...
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> > >
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2618. Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 22:07:06 UTC
From: Harry M
Topic: 2618 Message: 2618

I would like a few recommendations on battery chargers. Please include make/model/source. I am looking to buy one that will do all types, including Lead-Acid, Gel-Cell, NiCad, NiMh, LiIon, and LiPoly.

Thanks!

Harry KC5TRB

2619. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 22:21:09 UTC
From: Jon Riley
Topic: 2618 Message: 2619

Great Planes -- Triton.You can find it at
www.towerhobbies.com

This is what we use for Project:Traveler

Jon

Harry M <hhm_74115@...> wrote:

I would like a few recommendations on battery chargers. Please include make/model/source. I am looking to buy one that will do all types, including Lead-Acid, Gel-Cell, NiCad, NiMh, LiIon, and LiPoly.

Thanks!

Harry KC5TRB

2620. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 22:36:49 UTC
From: Harry M
Topic: 2618 Message: 2620

Thanks Jon!
Which model charger?

Harry

> Great Planes -- Triton.You can find it at

2621. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 22:41:00 UTC
From: Harry M
Topic: 2618 Message: 2621

Jon, do you have the $89 Triton or the Triton2?

Harry

2622. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 23:55:10 UTC
From: Jon Riley
Topic: 2618 Message: 2622

I have and Zack has the first run Triton. Any of those will work.If you look at the specs. for the units,you will see the real differance is the charge rate.The T1 and jr are near the same.The T2 has more charge power. There are others available ,but I don't know much about them.

Harry M <hhm_74115@...> wrote:

Jon, do you have the $89 Triton or the Triton2?

Harry

2623. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-27 23:55:15 UTC
From: Jon Riley
Topic: 2618 Message: 2623

I have and Zack has the first run Triton. Any of those will work.If you look at the specs. for the units,you will see the real differance is the charge rate.The T1 and jr are near the same.The T2 has more charge power. There are others available ,but I don't know much about them.

Harry M <hhm_74115@...> wrote:

Jon, do you have the $89 Triton or the Triton2?

Harry

2624. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-28 00:55:42 UTC
From: Mark Conner
Topic: 2612 Message: 2624

Using XML in an UNPROTO form would be difficult being limited to
256-byte packets and the risk of dropping tags and so forth.

You may wish to check out the OpenTrac protocol. There's not a lot
out there for it right now, but would seem to be a good fit for what
you're looking for. I think it could eventually replace the APRS spec
if it weren't for the lack of backwards compatibility.

There was some discussion on the APRSSIG of certain OpenTrac packets
causing either D7's or D700's to do funny things. If you're using it
on a non-144.39 freq, I wouldn't be concerned at all.

You might design something that would send regular APRS-spec posits at
intervals and use OpenTrac for everything else.

www.opentrac.org

73 de Mark N9XTN

On 8/27/06, Zack Clobes <zclobes@...> wrote:
>
>
>
>
>
>
>
> Yes, I'm rolling my own controller. At this point, I'm leaning towards the single-packet
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2625. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-28 13:58:55 UTC
From: Hank Riley
Topic: 2612 Message: 2625

> As a side note to using XML for telemetry, there is a
> standard GPX (GPS Exchange Format) that utilizes XML.
> The format is supported for import and export by a number
> of applications including Garmin's Map Source and
> Google Earth.

Good info. Thanks Mike.
I had noticed references to GPX before from Garmin, but
never dissected the protocol.

> However, I would be inclined to continue the use of standard
> GGA/RMC packets for any tracking applications. That gives
> the most number of users the ability to track and recover
> a payload. I've flown a number of high speed data links, but
> it wasn't very useful because I was the only one who
> could receive them.

> 1200 baud A-FSK APRS isn't perfect, but it has by far the
> widest user group.

The above philosophy of sticking with established methods
and standards certainly makes a lot of sense, and I don't
disagree. I do however feel compelled also to mention that
if everyone were to subscribe to that way of thinking, there
would never be anything but "1200 baud ASK APRS" available
for anyone's use.

Note that in general I would like to see slower rather than
faster APRS formats for amateur radio ballooning. Faster
is fine, too, of course, but it seems like the need and
payoffs might be greater for slower speeds and special
nonstandard formats comprising solutions that would suit
our niche problems and goals.

Hank

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Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2626. Re: [GPSL] Lat/Lon resolution on APRS packets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-28 14:47:08 UTC
From: Troy Campbell
Topic: 2612 Message: 2626

Hank,

I'll through my $.02 worth in here.

From a programming and systems communiction standpoint, XML is great. (maybe even "super") It's easy to parse, relative easy to validate (all the values have labels), can be 'hand cranked' when needed, human readable, easily extensible, etc. etc. I use it constantly in house.

On the downside, it is a bandwidth Hog. It was more or less designed for environments where bandwidth (and storage) is virtually unlimited, like a network connection or local harddisk, and supported by a protocol that shared the communication resource efficiently (TCP/IP).

The issue with 1200 baud A-FSK is not just message size but also the underlying protocol's (AX.25) packet size. The packets will fragment the message pretty severely, I would think, sending multiple packets for one message.

During a single flight, it wouldn't necessaryily be an issue. Unless you were using 144.39. In that case, a lot of other APRS traffic could get crowded out or YOUR traffic would get obliterated. I'd think packet collisions would go WAY up. Add digipeaters to the mix and I'd think that nothing productive could get transmitted.

There is such a thing as TCP-IP over packet, but it's a tunnelling protocol and isn't terribly efficient. Not to mention that APRS is a connectionless protocol and TCP-IP is a port based connectioned protocol.

Now, having said all that, I'm not the smartest guy in the world and frequently have been known to be wrong. XML for aprs would be cool and if you get it going efficiently (sharably) it'd be Good stuff. But I don't think the payload carrying capacity of the AX.25 on a 1200 or 9600 channel with the APRS connectionless protocol is going to be big enough. Except for maybe one or two stations at a time. So I guess I'm saying that XML would work but as a practical exercise, I think you'd have to move off the APRS band, move up to 70cm (at least), increase the baud rate, and figure out another protocol (maybe a UDP broadcast like streaming audio but unencoded). But then again, maybe not.

73 de Troy KC0MIC

Hank Riley <n1ltv@...> wrote: > As a side note to using XML for telemetry, there is a
> standard GPX (GPS Exchange Format) that utilizes XML.
> The format is supported for import and export by a number
> of applications including Garmin's Map Source and
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faster APRS formats for amateur radio ballooning. Faster
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Hank

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All-new Yahoo! Mail - Fire up a more powerful email and get things done faster.

2627. Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 05:38:14 UTC
From: Brek Brixius
Topic: 2627 Message: 2627

To start, I would like to introduce myself to the group. My name is Brek Brixius. I attended GPSL 06. While there, I kind of kept to the shadows. I am currently working at constructing a balloon that I hope to launch in 2007.

Since I have never done this before, I have a lot of questions. What is on my mind at the moment though is, insulation.

At GPSL it seemed like folks were concerned about their packages getting cold and freezing. I am preparing to build my airframe and have been reading some NASA sites about MLI on spacecraft as well as a NASA site regarding balloons. In both cases, they seem to worry about heat - see the following taken from http://topweb.gsfc.nasa.gov/balloon/inside.html

"Balloons can fly to an altitude of 26 miles (42 kilometers), with flights lasting an average of 12 to 24 hours. Special Long Duration balloon flights can last for more than two weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes than it does on the ground. So even though the outside air is very cold, it doesn't take heat away from the package very well, so the usual sources of heat (Sun, or the operation of electronics, etc. inside the package) can potentially cause the package to get very hot."

I wonder if they have heat problems do to the longer duration and/or higher altitudes?

Any comments you folks have would be greatly appreciated.

Thanks
Brek.

How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

2628. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 11:03:55 UTC
From: Troy Campbell
Topic: 2627 Message: 2628

Brek,

Welcome to the group!

You've pretty much hit on it. If you go to some of the ARHAB web sites you'll find temperature graphs and data that show that the temperature does get to -60 and below, but it get's _warmer_ as the altitude increases over 70,000 ft or so.

I think most of what you were hearing at GPSL has more to do with the fact that most of the ARHAB missions only last 2-3 hours and don't spend enough time in higher regions for heat management to become a problem. Also the 'higher regions' tend to be about 20 miles as opposed to NASA's 26 miles for 12-24 hours. (The six miles makes a difference.) In fact, some ARHAB designers COUNT ON heat from the electronics to keep the instrument compartment warm.

A couple of ARHAB groups do more long duration missions than others. It's pretty interesting to read their procedures and experiences. Most of what I hear from those seem to deal with keeping the batteries warm, especially after sunset.

While heat dissipation through convection is very limited at 4-3 millibars altitude, I don't think that ARHAB balloonsats use a transmitter duty cycle (time on vs time off) or pack the electronics so densely that waste heat is an engineering issue like NASA's spacecraft.

As to insulation, our current near-spacecraft is built from a Walmart $4.95 lunch bag with a hard inner liner. The temperature in-flight never gets below 10-14F. Our primary batteries are L-91 lithium "AA" batteries that seem to last for about 10 hours on the APRS transmitter and about 48 hours on the rest of the electronics.

73 de Troy KC0MIC
www.nearspaceventures.com
www.capnspace.org

Brek Brixius <gofly2007@...> wrote:
To start, I would like to introduce myself to the group. My name is Brek Brixius. I attended GPSL 06. While there, I kind of kept to the shadows. I am currently working at constructing a balloon that I hope to launch in 2007.

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weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes than it does on the ground. So even though the outside air is very cold, it doesn't take heat away from the package very well, so the usual sources of heat (Sun, or the operation of electronics, etc. inside the package) can potentially cause the package to get very hot."

I wonder if they have heat problems do to the longer duration and/or higher altitudes?

Any comments you folks have would be greatly appreciated.

Thanks
Brek.

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Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2629. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 13:53:06 UTC
From: Harry M
Topic: 2618 Message: 2629

Jon,

I have found the following FAQ. Have you had any similar problems with thte Triton charger?

73 Harry

Frequently Asked Questions

Using Lithium Polymer Chargers and Batteries

Quick jump to see other FAQs
Using Chargers & Batteries Flying the IFOs About IFO Model IFO Constructions FAQS Main Page

Chargers & Batteries:
Caution! when using Triton Charger with our Lithium battery pack
We've had several customers ruin our batteries using the Triton charger. But I think if setup properly, the Triton charger is fine. But, as a precaution at this time, I don't want to hear any more stories about the Triton charger ruining our batteries. I've ordered a Triton charger for my own investigation but here is what seems to be occurring. Apparently with the Triton charger, the charge voltage is dialed in. This really annoys me because if the wrong voltage is dialed in, the battery may be damaged or worse yet, a fire starts. Our batteries have been labeled with the "charged voltage" instead of the lower "discharged nominal voltage" The Triton expects the user to dial in the discharged nominal voltage instead of the higher charged voltage. So apparently, batteries have been damaged when this higher voltage is dialed in. I personally think it's a risky design. All our chargers have either jumpers or a knob that has discrete 1, 2 or 3 cell charging. I didn't dream that a manufacturer would use a dial in charge voltage. So the bottom line, if you have our 2-cell pack, set the Triton to 7.4 volts (not 8.4) and if you have a 3-cell pack set the Triton to 11.1 volts (not 12.6). Also just to be sure, charge at 0.5 amp, don't leave unattended and don't charge the battery on a flammable surface. At the above voltage settings, your Triton should be okay.

What are the best battery packs to use?
The best battery packs by far are the Lithium Ion Polymer (LiPoly) packs. The reason is that they are light in weight for their power and flight duration. The two cell 950 Mah packs will power a Mini or a Trainer for 20 to 25 minutes, sometimes more. We also sell a newer generation 860 Mah two cell pack that is a little lighter weight. The IFO Mk3 uses a three cell LiPoly pack because of it's larger motor.

Can I use NiCads or Nickel Metal Hydride packs with the IFO's?
Yes, NiCads and NiMH are heavier than LiPoly packs so you need to use Lower Mah capacity packs to keep the weight down. The biggest drawback here is the much shorter flight times available.

Wild R/C, Inc.

2630. Re: [GPSL] Battery Chargers and Li-Poly batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 14:23:13 UTC
From: mconner1@gmail.com
Topic: 2618 Message: 2630

As another data point, I've found that Li-poly batteries are far less tolerant of deep discharge. I did that one time on a bench test accidentally (left it run overnight) and ruined the pack. I attemped to charge the pack at a low rate to see if I could get it back, but the pack began to swell upon charging and never did work again. I have accidentally deep-discharged regular Li-ion cells a time or two and they came back, probably because I (carefully) recharged them the next day. One Li-ion pack was lost by doing a deep discharge and leaving it dead for a week or two.

If you do build a Li-poly pack, include a undervolt protection circuit. Probably a good idea for Li-ion packs too, but I've gone without it so far.

73 de Mark N9XTN

2631. Re: [GPSL] Battery Chargers and Li-Poly batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 14:41:46 UTC
From: Harry M
Topic: 2618 Message: 2631

Thanks Mark!

73 Harry

> As another data point, I've found that Li-poly batteries are far less tolerant of deep discharge...

2632. Re: [GPSL] Battery Chargers and Li-Poly batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 15:03:43 UTC
From: Harry M
Topic: 2618 Message: 2632

Mark, did you get the temp probe with your Triton?

2633. Re: [GPSL] Battery Chargers and Li-Poly batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 15:48:50 UTC
From: mconner1@gmail.com
Topic: 2618 Message: 2633
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2634. Re: [GPSL] Battery Chargers and Li-Poly batteries

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 16:46:56 UTC
From: Harry M
Topic: 2618 Message: 2634

Ok, thanks!

> I don't have a Triton charger...

2635. Re: [GPSL] Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 17:13:11 UTC
From: Jon Riley
Topic: 2618 Message: 2635

I can only hope everyone is smart enouth to figure out that charging any type of battery can be very dangerous.One of the warnings are Never charge a battery unsupervised.LI-PO and similar are considered as mini bombs.Cell phones use the same type,and burn up just the same.Look at the Dell batts and Apple laptop recalls.Li-ion type were getting over-charged and bursting causing fires.

I have Li-po for my R/C planes. I use the Triton very carefully.Follow the directions with the battery and whatever charger you decide to use,and use caution !!

Harry M <hhm_74115@...> wrote:
Jon,

I have found the following FAQ. Have you had any similar problems with thte Triton charger?

73 Harry

Frequently Asked Questions
Using Lithium Polymer Chargers and Batteries

Quick jump to see other FAQs
Using Chargers & Batteries Flying the IFOs About IFO Model IFO Constructions FAQS Main Page
Chargers & Batteries:
Caution! when using Triton Charger with our Lithium battery pack
We've had several customers ruin our batteries using the Triton charger. But I think if setup properly, the Triton charger is fine. But, as a precaution at this time, I don't want to hear any more stories about the Triton charger ruining our batteries. I've ordered a Triton charger for my own investigation but here is what seems to be occurring. Apparently with the Triton charger, the charge voltage is dialed in. This really annoys me because if the wrong voltage is dialed in, the battery may be damaged or worse yet, a fire starts. Our batteries have been labeled with the "charged voltage" instead of the lower "discharged nominal voltage" The Triton expects the user to dial in the discharged nominal voltage instead of the higher charged voltage. So apparently, batteries have been damaged when this higher voltage is dialed in. I personally think it's a risky design. All our chargers have either jumpers or a knob that has discrete 1, 2 or 3 cell charging. I didn't dream that a manufacturer would use a dial in charge voltage. So the bottom line, if you have our 2-cell pack, set the Triton to 7.4 volts (not 8.4) and if you have a 3-cell pack set the Triton to 11.1 volts (not 12.6). Also just to be sure, charge at 0.5 amp, don't leave unattended and don't charge the battery on a flammable surface. At the above voltage settings, your Triton should be okay.

What are the best battery packs to use?
The best battery packs by far are the Lithium Ion Polymer (LiPoly) packs. The reason is that they are light in weight for their power and flight duration. The two cell 950 Mah packs will power a Mini or a Trainer for 20 to 25 minutes, sometimes more. We also sell a newer generation 860 Mah two cell pack that is a little lighter weight. The IFO Mk3 uses a

three cell LiPoly pack because of it's larger motor.
Can I use NiCads or Nickel Metal Hydride packs with the IFO's?
Yes, NiCads and NiMH are heavier than LiPoly packs so you need to use Lower Mah capacity packs to keep the weight down. The biggest drawback here is the much shorter flight times available.
Wild R/C, Inc.

2636. OT: Palm TX recommendations

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 19:32:25 UTC
From: mconner1@gmail.com
Topic: 2636 Message: 2636

I know this has nothing to do with balloons, but I'm sure a few people on the list use the gizmo....

My wife would like a Palm organizer, and I'm thinking about getting the TX with its WiFi web-browsing capability. We have WiFi at home, and she could use this to check e-mail and limited web browsing without firing up the laptop and having the kids (3 and 1 y/o) all over the keyboard. Plus she could do the same thing at the local Panera or wherever else open WiFi is available.

They run $300 new and like-new used ones seem to be going for just over $200 on eBay. Anyone on the list use them and have good/bad comments? I had a Palm III that I bought for playing around with PocketAPRS several years ago and haven't used them since that generation of handhelds.

Reply off-list so I'm not abusing the good graces of the list users any further than I already have.

73 de Mark N9XTN

2637. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-30 21:13:00 UTC
From: PAUL VERHAGE
Topic: 2627 Message: 2637

The charts from my 2 hour flights show the internal temperature dropping to 30 degrees before warming back up again. At balloon burst the temperature drops again for a short period of time. I warp my airframes in MLI, but I don't think we get a hard enough vacuum to make MLI effective. My experiments show that wrapping the airframe in dark colors makes it several degrees warmer.

Paul

>>> Brek Brixius <gofly2007@...> 8/29/2006 11:38:14 pm >>>
To start, I would like to introduce myself to the group. My name is Brek Brixius. I attended GPSL 06. While there, I kind of kept to the shadows. I am currently working at constructing a balloon that I hope to launch in 2007.

Since I have never done this before, I have a lot of questions. What is on my mind at the moment though is, insulation.

At GPSL it seemed like folks were concerned about their packages getting cold and freezing. I am preparing to build my airframe and have been reading some NASA sites about MLI on spacecraft as well as a NASA site regarding balloons. In both cases, they seem to worry about heat - see the following taken from http://topweb.gsfc.nasa.gov/balloon/inside.html

"Balloons can fly to an altitude of 26 miles (42 kilometers), with flights lasting an average of 12 to 24 hours. Special Long Duration balloon flights can last for more than two weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes than it does on the ground. So even though the outside air is very cold, it doesn't take heat away from the package very well, so the usual sources of heat (Sun, or the operation of electronics, etc. inside the package) can potentially cause the package to get very hot."

I wonder if they have heat problems do to the longer duration and/or higher altitudes?

Any comments you folks have would be greatly appreciated.

Thanks
Brek.

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

2638. Re: [GPSL] "Powerizer" Battery Chargers / Li-Poly batteries?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 02:08:39 UTC
From: Dominick Marrone
Topic: 2618 Message: 2638

I've researched into several companies Poly-Li battery packs and quick charger products for near space applications, and came across what 'appears' to be a good product, at low cost ...

Q: Has anyone every used, or heard (good or bad) about Poly-Li battery products from a company called www.batteryspace.com (a.k.a. Powerizer)?

They also sell variety of individual "quick" Poly-Li battery chargers, each specific do a specific battery Voltage/Current and # of Cells configuration; e.g. 4 cells, 5-cells, etc.. In addition, their chargers include a special built-in I.C. to prevent over-charge (slow or under-charge?) and reverse polarity connection protection circuitry.

Their products have a look of "good quality" but are priced very competitively, plus their website provides "all" product specs, not just cut-sheets, and plenty of "cautions" regarding over-charging, etc. Unlike the other companies, Powerizer also customizes Poly-Li packs to your need!

Your feedback is greatly appreciated. Thanks.

Dominick Marrone
KC2PXA@...

****

Harry M <hhm_74115@...> wrote:

Ok, thanks!

> I don't have a Triton charger...

2639. FindU Problems

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 02:08:17 UTC
From: Harry M
Topic: 2639 Message: 2639

Has anyone had any problems with FindU lately? Try http://www.findu.com/cgi-bin/find-us.cgi?kc5trb* and see if the "Last Position" says "Time Error". Then click on one of my stations and see what you get. I get nada!

Harry
KC5TRB

2640. Re: [GPSL] FindU No Problem - New Syntax ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 02:30:35 UTC
From: Dominick Marrone
Topic: 2639 Message: 2640

Hi Harry,

I'm new at this, but I was able to locate you on findu.com, but you need to use the following syntax : http://www.findu.com/cgi-bin/find.cgi?kc5trb

(Note: This syntax is a liitle different from your posted link. If you go to findu.com news, they claim they are tryint out some new pages. etc.

Here is the info returned:

Position of KC5TRB --- 3.0 miles northeast of Tulsa, OK --- Report received 1 days 16 minutes 8 seconds ago
Status: 290052z[224] http://members.cox.net/hhm_74775/ORB
Raw packet: KC5TRB>APS224,ETULSA*,WIDE3-2,qAo,KA5J:=3609.93N/09556.39W- Harry de Tulsa

Also, findu found you on wx.findu.com but says you are not outputing any weather data at this time.

Hope this helps.

Dominick Marrone
KC2PXA@...

****

Harry M <hhm_74115@...> wrote:
Has anyone had any problems with FindU lately? Try http://www.findu.com/cgi-bin/find-us.cgi?kc5trb* and see if the "Last Position" says "Time Error". Then click on one of my stations and see what you get. I get nada!

Harry
KC5TRB

2641. Re: [GPSL] FindU No Problem - New Syntax ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 02:40:11 UTC
From: Harry M
Topic: 2639 Message: 2641

Hi Dominic,

I am aware of the various syntax's available on FindU and do use the one you suggested at times. I'm just having problems with the one I listed. It hasn't worked for a couple weeks that I know of. Maybe there has been an overhaul on the syntax. I tried http://www.findu.com/cgi-bin/find.cgi?kc5trb* and it works just fine. This syntax is good to use if you are looking for a station, but don't know what the extension is

Thanks!
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

2642. Re: [GPSL] FindU No Problem - New Syntax ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 02:46:02 UTC
From: Harry M
Topic: 2639 Message: 2642

Another anomoly I found is, using the syntax with the " * " after my Call, click on KC5TRB-5, when the map displays click on "Raw APRS data" on the left. It says "Sorry, no data found for KC5TRB-5". How is it displayed on the map if there is no data?

73 Harry

2643. Re: [GPSL] FindU No Problem - New Syntax ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 11:55:54 UTC
From: Roger Hammond
Topic: 2639 Message: 2643
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2644. Re: [GPSL] FindU No Problem - New Syntax ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 12:08:19 UTC
From: Don KA0JLF
Topic: 2639 Message: 2644

Dominick, the main difference I see in the syntax is
the "*" that basically just gives "all" the stations.
So it shows 3 of Harry's stations, click on "show all"
at the bottom of the page shows the 3 stations. ;-)

It is a handly way to let you see multiple stations,
we use it so you can see the balloon,usually "-11" for
me. And you can also see the 'chase vehicle and home
station' with different SSIDs. It is easier to just
send the "kc5trb*" and let people pick which one they
want to 'see'. Or which one is active, the balloons
will, usually, stay in the db for a while. It is also
handy to find out which SSID was used.

73
Don

--- Dominick Marrone <dmarroneny@...> wrote:

> Hi Harry,
>
> I'm new at this, but I was able to locate you on
> findu.com, but you need to use the following syntax
> : http://www.findu.com/cgi-bin/find.cgi?kc5trb
>
> (Note: This syntax is a liitle different from your
> posted link. If you go to findu.com news, they
> claim they are tryint out some new pages. etc.
>
> Here is the info returned:
>
> Position of KC5TRB --- 3.0 miles northeast of
> Tulsa, OK --- Report received 1 days 16 minutes 8
> seconds ago
> Status: 290052z[224]
> http://members.cox.net/hhm_74775/ORB
> Raw packet:
>
KC5TRB>APS224,ETULSA*,WIDE3-2,qAo,KA5J:=3609.93N/09556.39W-
> Harry de Tulsa
>
> Also, findu found you on wx.findu.com but says you
> are not outputing any weather data at this time.
>
> Hope this helps.
>

> Dominick Marrone
> KC2PXA@...
>
> **********
>
>
> Harry M <hhm_74115@...> wrote:
> Has anyone had any problems with FindU
> lately? Try
> http://www.findu.com/cgi-bin/find-us.cgi?kc5trb* and
> see if the "Last Position" says "Time Error". Then
> click on one of my stations and see what you get. I
> get nada!
>
> Harry
> KC5TRB

_____
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2645. Re: [GPSL] FindU No Problem - New Syntax ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 12:12:29 UTC
From: Don KA0JLF
Topic: 2639 Message: 2645

Actually, I believe most of those history queries
allow a start, stop, and duration period. You can
change the 'start' as the data gets older (at least
you could), so if you know when the data was
collected, you (use to) be able to query for that
'period'. I'm not sure how long they keep data
anymore, but I think you might look at the syntax for
some of those queries and see what the syntax changes
could be.

73
Don

--- Roger Hammond <rahammond@...> wrote:

> Hi Harry!
>
> I believe the raw data is only available for a given
> station for 24 hours
> from that link. You'd have to use one of the CGI's
> to pull any older data.
>
> Rog KC0MWM
> www.cnnsp.org
>
>
>
> On 8/30/06, Harry M <hhm_74115@...> wrote:
> >
> > Another anomoly I found is, using the syntax
> with the " * " after my
> > Call, click on KC5TRB-5, when the map displays
> click on "Raw APRS data" on
> > the left. It says "Sorry, no data found for
> KC5TRB-5". How is it displayed
> > on the map if there is no data?
> >
> > 73 Harry
> >
> >
> >
>

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2646. Fwd: [HABITAT_SkyLab] cold soldering iron???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 12:33:27 UTC
From: Don KA0JLF
Topic: 2646 Message: 2646

??

--- ka0jlf wrote:

> CC: gpsl@yahoogroups.com, knsp@yahoogroups.com
> From: ka0jlf@...
> Date: Thu, 31 Aug 2006 07:29:51 -0500
> Subject: [HABITAT_SkyLab] cold soldering iron???
>
> Have any of you used those cold soldering irons?
> Harborfreight has one
> on sale for $17, thought I'd ask before I spent
> money on one.
>
> Thanks,
> Don

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2647. APRS history on APRSworld and DB0ANF

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 13:11:15 UTC
From: Ralph Wallio, W0RPK
Topic: 2647 Message: 2647

APRSworld maintains an APRS history database via http://www.aprsworld.net/. Enter the call sign in
question and then select TRACK from below the resulting map. Track data can be accessed by date
range or time from now. A track table and/or raw packets can be selectively included with the
resulting track map.

The APRS data base at http://www.db0anf.de/hamweb/aprsdb/ may also be of interest.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2648. Fwd: Air Force Awards $49 Million Contract for Ballon-Borne Near Space Communications

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 13:19:01 UTC
From: Joe Lynch
Topic: 2648 Message: 2648

To: GPSL group

From: Joe Lynch, N6CL

Space Data Corporation Awarded $49 Million Air Force Contract For Near Space Communications System

Chandler, Arizona; August 30, 2006-The U.S. Air Force Space Command Space & Missile Systems Center's Development and Test Wing, Kirtland Air Force Base, New Mexico, today announced that it is awarding a $49 Million contract to Space Data Corporation to provide a near space communications system. "Near space" is defined as 65,000 to 135,000 feet above the earth-higher than airplanes fly, but lower than satellites. "Under previous Space Command contracts, the Air Force Space Battlelab carried out extensive testing of our system over the past two years," said Gerald Knoblach, chairman and CEO of Space Data. "We are gratified and proud that the Air Force selected our technology as the next important improvement in battlefield communications."

The Battlelab tests included using the same tactical radios carried by troops in Iraq and Afghanistan. The results showed that ground-to-ground voice and data communications could be extended from 10 miles to over 400 miles using Space Data's balloon-borne payloads. Likewise, the Space Data technology significantly improved communications between troops on the ground and pilots flying air support. Further tests were conducted this year as part of the Joint Expeditionary Force Experiment-a biennial event sponsored by the Air Force Chief of Staff to test the latest war fighting technologies. Additional advantages identified by the military included ease of launch and the ability to quickly adapt payloads for specific warfighter needs.

The Space Data system utilizes a balloon-borne platform that takes advantage of the very predictable winds in near space to position communications equipment 20 miles above the earth. The GPS-equipped platforms can be launched from the back of a Humvee, for example, and once at altitude provide excellent communications over thousands of square miles.

The Near Space Communications System contract is a five-year "indefinite delivery, indefinite quantity" arrangement that permits the Space & Missile Systems Center to order Space Data equipment as needed. Space Data will also provide training in using the equipment for military personnel.

Knoblach explained that a commercial version of the company's technology called a SkySite platform has provided digital communications service to the energy industry for more than two years. The SkySite system operates over the South-central and Southwestern United States and allows energy firms to monitor and control equipment remotely. At 20 miles above the earth, the Space Data technology is well above weather systems. It provided uninterrupted service throughout last year's hurricane season, including Hurricanes Katrina and Rita. For this reason public safety agencies and emergency management officials are also evaluating the advantages of near space communications for domestic uses.

For additional information on the Space Data Corporation, please visit http://www.spacedata.net.

CONTACT:
Space Data: Tim Ayers, 202-857-9734; mailto:tim@....

2649. KPC-3 TNC's losing their configs?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 17:08:04 UTC
From: Zack Clobes
Topic: 2649 Message: 2649

I'm having a problem with my KPC-3 losing its entire config on a regular but not predictable time period. I just replaced the lithium battery so I'm pretty sure I didn't have two bad batteries. It's the same TNC that I've used for years chasing balloons, so I'm sure it's not a defunct unit. It is losing the configuration about every two days or so, apparently when I remove power from the unit and reboot it.

I've really only made two changes to it recently. First, I'm running in KISS mode for some testing I'm doing. Secondly, I'm transmitting posit reports on a regular basis, which I'm normally receive only on that unit.

Any thoughts would be appreciated.

Zack

2650. Re: [HABITAT_SkyLab] cold soldering iron??

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 17:14:19 UTC
From: Al Wolfe
Topic: 2650 Message: 2650

Don,
A friend of mine had one from somewhere. (Rat Shack, maybe?) Basically,
it had a probe with two carbon electrodes in it hooked to a couple of "C"
cell NiCad's. The idea was that the carbon electrodes would carry lots of
current to the solder joint and the items the carbons touched would get hot,
i.e. solder or wire or PC trace.

I played around with it for a while and decided not to get one for
myself. I can't think of when there isn't a better way to solder.

The tips did cool off fairly rapidly and were not flesh-searingly hot
after a few seconds. I would wait a while before shoving it in a pocket.

I've had much better luck with regular cordless irons actually being
able to solder things.

I'd pass.

73,
Al, K9SI

--- ka0jlf wrote:

> CC: gpsl@yahoogroups.com, knsp@yahoogroups.com
> From: ka0jlf@...
> Date: Thu, 31 Aug 2006 07:29:51 -0500
> Subject: [HABITAT_SkyLab] cold soldering iron???
>
> Have any of you used those cold soldering irons?
> Harborfreight has one
> on sale for $17, thought I'd ask before I spent
> money on one.
>
> Thanks,
> Don

2651. Re: [GPSL] Fwd: [HABITAT_SkyLab] cold soldering iron???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 17:51:31 UTC
From: John C Nordlie
Topic: 2646 Message: 2651

Some students in our EE department have tried them and were very
unimpressed. Battery or butane portables seem to work much better.

==
John Nordlie N0RNB | Regional Weather Information Center
nordlie@... | University of North Dakota
==

On Thu, 31 Aug 2006, Don KA0JLF wrote:

> ??
>
> --- ka0jlf wrote:
>
> > CC: gpsl@yahoogroups.com, knsp@yahoogroups.com
> > From: ka0jlf@...
> > Date: Thu, 31 Aug 2006 07:29:51 -0500
> > Subject: [HABITAT_SkyLab] cold soldering iron???
> >
> > Have any of you used those cold soldering irons?
> > Harborfreight has one
> > on sale for $17, thought I'd ask before I spent
> > money on one.
> >
> > Thanks,
> > Don
>
>
>
>
> _____
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>
>
> Yahoo! Groups Links
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2652. Re: [GPSL] Fwd: [HABITAT_SkyLab] cold soldering iron???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 18:34:49 UTC
From: Don KA0JLF
Topic: 2646 Message: 2652

This seems to be the basic theme of all replies so
far. I guess I'll stay with the butane I already have.
It has served me well the times I've needed it.

Thanks everyone for saving me $20!!!

73
Don

--- John C Nordlie <nordlie@...> wrote:

> Some students in our EE department have tried them
> and were very
> unimpressed. Battery or butane portables seem to
> work much better.
>
>
==========
> John Nordlie N0RNB | Regional
> Weather Information Center
> nordlie@... |
> University of North Dakota
>
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>
> > ??
> >
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> > > From: ka0jlf@...
> > > Date: Thu, 31 Aug 2006 07:29:51 -0500
> > > Subject: [HABITAT_SkyLab] cold soldering iron???
> > >
> > > Have any of you used those cold soldering irons?
> > > Harborfreight has one
> > > on sale for $17, thought I'd ask before I spent
> > > money on one.
> > >
> > > Thanks,
> > > Don

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2653. Re: [GPSL] FindU - APRS and AVRS. ..

Yahoo group: GPSL (2002 — 2008)
Date: 2006-08-31 23:21:40 UTC
From: Dominick Marrone
Topic: 2639 Message: 2653

Hi Don,

I'm fairly new to APRS protocols and FindU but I have been trying to digest all the content available through ARRL books.

Q: Do you use APRS WX weather protocols?
Q: Any suggestions where I can find info on APRS WX protocols, books, and equipment requirments?

Thanks again for the information.

Dominick Marrone
KC2PXA@...

****

Don KA0JLF <ka0jlf@...> wrote:
Dominick, the main difference I see in the syntax is
the "*" that basically just gives "all" the stations.
So it shows 3 of Harry's stations, click on "show all"
at the bottom of the page shows the 3 stations. ;-)

It is a handly way to let you see multiple stations,
we use it so you can see the balloon,usually "-11" for
me. And you can also see the 'chase vehicle and home
station' with different SSIDs. It is easier to just
send the "kc5trb*" and let people pick which one they
want to 'see'. Or which one is active, the balloons
will, usually, stay in the db for a while. It is also
handy to find out which SSID was used.

73
Don

--- Dominick Marrone <dmarroneny@...> wrote:

> Hi Harry,
>
> I'm new at this, but I was able to locate you on
> findu.com, but you need to use the following syntax
> : http://www.findu.com/cgi-bin/find.cgi?kc5trb
>
> (Note: This syntax is a liitle different from your
> posted link. If you go to findu.com news, they
> claim they are tryint out some new pages. etc.
>
> Here is the info returned:

>
> Position of KC5TRB --- 3.0 miles northeast of
> Tulsa, OK --- Report received 1 days 16 minutes 8
> seconds ago
> Status: 290052z[224]
> http://members.cox.net/hhm_74775/ORB
> Raw packet:
>
KC5TRB>APS224,ETULSA*,WIDE3-2,qAo,KA5J:=3609.93N/09556.39W-
> Harry de Tulsa
>
> Also, findu found you on wx.findu.com but says you
> are not outputing any weather data at this time.
>
> Hope this helps.
>
> Dominick Marrone
> KC2PXA@...
>
> **********
>
>
> Harry M <hhm_74115@...> wrote:
> Has anyone had any problems with FindU
> lately? Try
> http://www.findu.com/cgi-bin/find-us.cgi?kc5trb* and
> see if the "Last Position" says "Time Error". Then
> click on one of my stations and see what you get. I
> get nada!
>
> Harry
> KC5TRB

_____
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2654. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-01 01:36:52 UTC
From: Brek Brixius
Topic: 2627 Message: 2654

I read a NASA document that talked about multilayer insulation efficiency. It said that gas (air) trapped between the layers during manufacture dramatically reduced the efficiency. They were testing 15 layer MLI Their solution was to perferate the layers at regular intervals to allow the gas to escape. I wish I could find the document for you. I thought I had saved it on my computer but can not find it now.

Some other information I came across indicated that Chinese space blankets are of inferior quality. Even so, I am going to try to make an MLI with cheap Walmart spaceblanket and foamies in place of scrim. That is assuming I can find a glue that will flex enough and stick well to both materials. I have a can of spray adhesive I thought might work.

I have started building the air frame. I am using some rather thick (1 1/2") foam beadboard I already have on hand. I am bonding coroplast to each side of the foam (at least on the base and top pallets) with Elmer's Ultimate. I am orienting the veins in the coroplast so that they run perpendicular to the veins on the other side of the foam. This makes a very rigid yet light construction material. They make a similar material for the construction industry that bonds a wood product to foam. Houses can be built from that material very quickly because there is no need for framing and the insulation is already installed.

I am not sure how the weight of this material compares to the wieght of materials other folks are using. Two 10" x 10" pallets, my Garmin 18, Open Tracker 1x, Handy Talkie minus its battery and 4 pvc through tubes 20" in length weighed 1 lb 12 oz. on our digital mail scale.

Funny thing is, it would cost a lot less to ship it 20 miles horizontally than 20 miles vertically.

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
The charts from my 2 hour flights show the internal temperature dropping to 30 degrees before warming back up again. At balloon burst the temperature drops again for a short period of time. I warp my airframes in MLI, but I don't think we get a hard enough vacuum to make MLI effective. My experiments show that wrapping the airframe in dark colors makes it several degrees warmer.

Paul

>>> Brek Brixius <gofly2007@...> 8/29/2006 11:38:14 pm >>>
To start, I would like to introduce myself to the group. My name is Brek Brixius. I attended GPSL 06. While there, I kind of kept to the shadows. I am currently working at constructing a balloon that I hope to launch in 2007.

Since I have never done this before, I have a lot of questions. What is on my mind at the moment though is, insulation.

At GPSL it seemed like folks were concerned about their packages getting cold and freezing. I am preparing to build my airframe and have been reading some NASA sites about MLI on spacecraft as well as a NASA site regarding balloons. In both cases, they seem to worry about heat - see the following taken from http://topweb.gsfc.nasa.gov/balloon/inside.html

"Balloons can fly to an altitude of 26 miles (42 kilometers), with flights lasting an average of 12 to 24 hours. Special Long Duration balloon flights can last for more than two weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes than it does on the ground. So even though the outside air is very cold, it doesn't take heat away from the package very well, so the usual sources of heat (Sun, or the operation of electronics, etc. inside the package) can potentially cause the package to get very hot."

I wonder if they have heat problems do to the longer duration and/or higher altitudes?

Any comments you folks have would be greatly appreciated.

Thanks
Brek.

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2655. Re: [GPSL] Fwd: [HABITAT_SkyLab] cold soldering iron???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-01 01:44:47 UTC
From: Mike Manes
Topic: 2646 Message: 2655

Hi Don,

I've not used one, but I think they work by running mondo high current thru the joint you're trying to solder thus producing ohmic heat in the metal. Given that it's a good practice to heat BOTH conductors that you're aiming to solder, there's a risk that some of that high current could wander off elsewhere in the circuit and let out unintended smoke.

If you're looking for a cordless iron for field work, I'd recommend getting one of the butane powered irons. Rat Shack (used to?) sell 'em for about $15, and it comes with a torch attachment to boot. I've used it several times to help students repair balloonsats on launch morning, and most recently, I repaired a broken lead on my HT speaker-mic during the '06 GPSL conference!

73 de Mike W5VSI

Don KA0JLF wrote:
> ??
>
> --- ka0jlf wrote:
>
>> CC: gpsl@yahoogroups.com, knsp@yahoogroups.com
>> From: ka0jlf@...
>> Date: Thu, 31 Aug 2006 07:29:51 -0500
>> Subject: [HABITAT_SkyLab] cold soldering iron???
>>
>> Have any of you used those cold soldering irons?
>> Harborfreight has one
>> on sale for $17, thought I'd ask before I spent
>> money on one.
>>
>> Thanks,
>> Don
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2656. Re: [GPSL] Fwd: [HABITAT_SkyLab] cold soldering iron???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-01 08:03:59 UTC
From: David
Topic: 2646 Message: 2656

I agree with most of what was said, the cold heat ones
work only so-so, you have to be good at making
absolutely good surface contact before they work.
If you want a battery powered one (to avoid butane
fumes), there are 2 easy recommendations.
1. The Weller battery powered one uses AA batteries
<http://www.all-spec.com/1/viewitem/BP645MP/ALLSPEC/prodinfo/?gclid=CI3JsK38i4cCFQeqHgodln
DJ6w>

2. The ISO-TIP models, 2C cells, or rechargable
battery pack.
<http://www.iso-tip.com/html/soldering_irons.htm>

otherwise it is a butane one.

> Don KA0JLF wrote:
> > ??
> >
> > --- ka0jlf wrote:
> >
> >> CC: gpsl@yahoogroups.com, knsp@yahoogroups.com
> >> From: ka0jlf@...
> >> Date: Thu, 31 Aug 2006 07:29:51 -0500
> >> Subject: [HABITAT_SkyLab] cold soldering iron???
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> >> Have any of you used those cold soldering irons?
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> >> on sale for $17, thought I'd ask before I spent
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> >> Thanks,
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2657. Re: [GPSL] Fwd: [HABITAT_SkyLab] cold soldering iron???

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-01 12:21:32 UTC
From: Don KA0JLF
Topic: 2646 Message: 2657

Yes, I had an ISO-TIP back before I was in tech school
and after while heavy into hardward. It worked well. I
might have to try to find another one of those, for
multiple reasons. It worked very well. As I recall I
used it to help build my first computer back in the
70s.

Thanks David!
73
Don

--- David <dhuff16@...> wrote:

> I agree with most of what was said, the cold heat
> ones
> work only so-so, you have to be good at making
> absolutely good surface contact before they work.
> If you want a battery powered one (to avoid butane
> fumes), there are 2 easy recommendations.
> 1. The Weller battery powered one uses AA batteries
>
<http://www.all-spec.com/1/viewitem/BP645MP/ALLSPEC/prodinfo/?gclid=CI3JsK38i4cCFQeqHgodln
DJ6w>
>
> 2. The ISO-TIP models, 2C cells, or rechargable
> battery pack.
> <http://www.iso-tip.com/html/soldering_irons.htm>
>
> otherwise it is a butane one.
>
> > Don KA0JLF wrote:
> > > ??
> > >
> > > --- ka0jlf wrote:
> > >
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> > >> From: ka0jlf@...
> > >> Date: Thu, 31 Aug 2006 07:29:51 -0500
> > >> Subject: [HABITAT_SkyLab] cold soldering
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> > GPSL-unsubscribe@yahoogroups.com
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2658. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-01 18:41:37 UTC
From: PAUL VERHAGE
Topic: 2627 Message: 2658

I make my cheap MLI with space blanket and wedding veil material as the scrim. Wedding veil material is a tiny open mesh of plastic and very similar to aerospace scrim. I use solid 3/4" thick Styrofoam for my airframes. The Styro keeps the interior pretty warm by itself. I'd like to see what kind of temperatures you get with corroplast walls.

Paul

>>> Brek Brixius <gofly2007@...> 8/31/2006 7:36 pm >>>
I read a NASA document that talked about multilayer insulation efficiency. It said that gas (air) trapped between the layers during manufacture dramatically reduced the efficiency. They were testing 15 layer MLI Their solution was to perferate the layers at regular intervals to allow the gas to escape. I wish I could find the document for you. I thought I had saved it on my computer but can not find it now.

Some other information I came across indicated that Chinese space blankets are of inferior quality. Even so, I am going to try to make an MLI with cheap Walmart spaceblanket and foamies in place of scrim. That is assuming I can find a glue that will flex enough and stick well to both materials. I have a can of spray adhesive I thought might work.

I have started building the air frame. I am using some rather thick (1 1/2") foam beadboard I already have on hand. I am bonding coroplast to each side of the foam (at least on the base and top pallets) with Elmer's Ultimate. I am orienting the veins in the coroplast so that they run perpendicular to the veins on the other side of the foam. This makes a very rigid yet light construction material. They make a similar material for the construction industry that bonds a wood product to foam. Houses can be built from that material very quickly because there is no need for framing and the insulation is already installed.

I am not sure how the weight of this material compares to the wieght of materials other folks are using. Two 10" x 10" pallets, my Garmin 18, Open Tracker 1x, Handy Talkie minus its battery and 4 pvc through tubes 20" in length weighed 1 lb 12 oz. on our digital mail scale.

Funny thing is, it would cost a lot less to ship it 20 miles horizontally than 20 miles vertically.

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
The charts from my 2 hour flights show the internal temperature dropping to 30 degrees before warming back up again. At balloon burst the temperature drops again for a short period of time. I warp my airframes in MLI, but I don't think we get a hard enough vacuum to make MLI effective. My experiments show that wrapping the airframe in dark colors makes it several degrees warmer.

Paul

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Since I have never done this before, I have a lot of questions. What is on my mind at the moment though is, insulation.

At GPSL it seemed like folks were concerned about their packages getting cold and freezing. I am preparing to build my airframe and have been reading some NASA sites about MLI on spacecraft as well as a NASA site regarding balloons. In both cases, they seem to worry about heat - see the following taken from http://topweb.gsfc.nasa.gov/balloon/inside.html

"Balloons can fly to an altitude of 26 miles (42 kilometers), with flights lasting an average of 12 to 24 hours. Special Long Duration balloon flights can last for more than two weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes than it does on the ground. So even though the outside air is very cold, it doesn't take heat away from the package very well, so the usual sources of heat (Sun, or the operation of electronics, etc. inside the package) can potentially cause the package to get very hot."

I wonder if they have heat problems do to the longer duration and/or higher altitudes?

Any comments you folks have would be greatly appreciated.

Thanks
Brek.

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2659. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-01 04:10:40 UTC
From: Mike Manes
Topic: 2627 Message: 2659

Hi Brek,

Considering the components in your payload, 1.5" thick insulation is probably overkill. We fly a similar APRS module using an Alinco DJ-C5 and Rockwell Jupiter GPS engine, plus 3 surplus LiSO2 D cells in a 3/8" thick foamcore housing just 4 x 4 x 6. It's internal temp stays comfy enough to keep things humming thruout a 2.5 hr flight, plus 1 hr preflight and over 4 hrs recovery. With a homebrew 2m J-Pole, it weighs in soakin' wet at 1.7 lb. We use a single 3/8" OD thru tube to pass the payload line thru - this keeps all of the line tension out of the housing, which has crushed at least one payload when we used a yoke harness to the corners.

Note that due to poor free convection coefficient at high altitude, things that dissipate heat and rely on convection to git shut of it can overheat. Heat generators like linear voltage regulators can be keep cozy simply by relying on radiative cooling, which varies as the 4th power of temp difference (and directly with emissivity). So a large, thin Al sheet - even just mill finish - can work fine as a balloon payload heatsink. Note that black anodize has very POOR emissivity at IR wavelenghts over 1 um - raw Al is better and carbon black paint is super.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
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> efficiency. It said that gas (air) trapped between the layers during
> manufacture dramatically reduced the efficiency. They were testing 15
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> intervals to allow the gas to escape. I wish I could find the document
> for you. I thought I had saved it on my computer but can not find it now.
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> Some other information I came across indicated that Chinese space
> blankets are of inferior quality. Even so, I am going to try to make an
> MLI with cheap Walmart spaceblanket and foamies in place of scrim. That
> is assuming I can find a glue that will flex enough and stick well to
> both materials. I have a can of spray adhesive I thought might work.
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> they run perpendicular to the veins on the other side of the foam. This
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> material for the construction industry that bonds a wood product to

> foam. Houses can be built from that material very quickly because there
> is no need for framing and the insulation is already installed.
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> I am not sure how the weight of this material compares to the wieght of
> materials other folks are using. Two 10" x 10" pallets, my Garmin 18,
> Open Tracker 1x, Handy Talkie minus its battery and 4 pvc through tubes
> 20" in length weighed 1 lb 12 oz. on our digital mail scale.
>
> Funny thing is, it would cost a lot less to ship it 20 miles
> horizontally than 20 miles vertically.
>
> Brek.
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>
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> my airframes in MLI, but I don't think we get a hard enough vacuum
> to make MLI effective. My experiments show that wrapping the
> airframe in dark colors makes it several degrees warmer.
>
> Paul
>
> >>> Brek Brixius <gofly2007@...
> <mailto:gofly2007%40yahoo.com>> 8/29/2006 11:38:14 pm >>>
> To start, I would like to introduce myself to the group. My name is
> Brek Brixius. I attended GPSL 06. While there, I kind of kept to the
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> "Balloons can fly to an altitude of 26 miles (42 kilometers), with
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> balloon flights can last for more than two weeks. When the balloon
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> Celsius (-40 Fahrenheit). Even though the temperature is still

> extremely low, there are often more concerns with the payload
> getting too hot than too cold. Since the air pressure is low
> (1/500ths of sea level pressure), cooling by air works much less
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> operation of electronics, etc. inside the package) can potentially
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> Any comments you folks have would be greatly appreciated.
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>
> ---
> All-new Yahoo! Mail
> <http://us.rd.yahoo.com/evt=43256/*http://advision.webevents.yahoo.com/mailbeta>-
> Fire up a more powerful email and get things done faster.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2660. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-02 02:23:14 UTC
From: Brek Brixius
Topic: 2627 Message: 2660

Mike:

Thank you for your comments.

I know the foam is thick. I happen to have it on hand and need to use it for something. I have already started construction of the airframe and want to see it through. If I think the result is completely unreasonable, I'll try again.

Since this is my first attempt, my thoughts are not necessarily for the lightest possible rig but one that my balloon will lift and will be legal. If I understand right, the legal limit is 12 pounds divided into two modules. I only intend to fly one module and expect it to be under 6 pounds.

My thoughts regarding the interior of the craft are as follows (and if I'm wrong - anybody please chime in): Cold air is outside. Cold air causes batteries to be weak and may cause components to not operate properly. Therefore, keep cold out. Also, air inside should expand like the gas in the balloon. As it expands, it will exit the airframe taking warmth with it or (if I managed a perfect seal - not likely) the airframe might burst. So, I want to minimize the air inside by filling that space (with more foam). Foam in the interior should keep components from shifting about. Also, solid things do not crush as easily as hollow things of the same material. Therefore, pack interior with foam to make it more solid. I know foam weighs more than air. As long as I'm legal and can get it all off the ground - I think that should be ok.

Your 1.7 pound craft is very admirable and gives me something to aspire to in the future. :)

Brek

Mike Manes <manes@...> wrote:
Hi Brek,

Considering the components in your payload, 1.5" thick insulation is
probably overkill. We fly a similar APRS module using an Alinco DJ-C5
and Rockwell Jupiter GPS engine, plus 3 surplus LiSO2 D cells in a
3/8" thick foamcore housing just 4 x 4 x 6. It's internal temp stays
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in soakin' wet at 1.7 lb. We use a single 3/8" OD thru tube to pass the
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Heat generators like linear voltage regulators can be keep cozy simply
by relying on radiative cooling, which varies as the 4th power of

temp difference (and directly with emissivity). So a large, thin Al
sheet - even just mill finish - can work fine as a balloon payload
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IR wavelenghts over 1 um - raw Al is better and carbon black paint is
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73 de Mike W5VSI, EOSS

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> All-new Yahoo! Mail
> -
> Fire up a more powerful email and get things done faster.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

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2661. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-02 02:41:29 UTC
From: Brek Brixius
Topic: 2627 Message: 2661

:) Maybe one of my mission objectives will be to have the warmest nearspacecraft interior. First egg fried at 100,000 feet? Or, 50,000 feet. Or, in a foam box in the back of my truck.

Note to self: Have adjustable mission objectives to minimize possibility of failure.

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I am not sure how the weight of this material compares to the wieght of materials other folks are using. Two 10" x 10" pallets, my Garmin 18, Open Tracker 1x, Handy Talkie minus its battery and 4 pvc through tubes 20" in length weighed 1 lb 12 oz. on our digital mail scale.

Funny thing is, it would cost a lot less to ship it 20 miles horizontally than 20 miles vertically.

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2662. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-02 07:51:07 UTC
From: wb8elk@aol.com
Topic: 2627 Message: 2662

Brek,

The big boys (National Scientific Balloon Foundation) have to worry about heat buildup since they usually go up to over 130,000 feet and stay there all day...plus they usually carry up massive payloads (thousands of pounds) with an array of power hungry electronics that generate quite a bit of heat. Unless you are running a PC104 PC or ATV, the typical APRS payload generates extremely little heat due to the intermittent nature of it's transmissions. In the case of higher power continuous payloads like ATV, I will sometimes put the heat sink fins sticking out of the payload (in the case of 3 Watts or more)....I've had no problems with a 1 Watt ATV transmitter inside a payload.

I like the 2-inch thick styrofoam package that the ozonesondes come in....available for $25 from the manufacturer of the ozonesondes....or something similar (someone at GPSL mentioned that steaks come in a similar package when sent in the mail).

- Bill WB8ELK

-----Original Message-----
From: paul.verhage@...
To: GPSL@yahoogroups.com
Sent: Wed, 30 Aug 2006 5:13 PM
Subject: Re: [GPSL] Insulation

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2663. Re: [GPSL] Insulation - I have some Space Station insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-02 07:57:49 UTC
From: wb8elk@aol.com
Topic: 2627 Message: 2663

I have a huge pallet of space blanket material that was surplus left over from building the International Space Station (I got it at a NASA auction at Marshall space flight center last year)...each one is about 3 feet wide by 5 feet long....might be worth cutting up for a balloon payload if anyone is interested in trying it.

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From: gofly2007@...
To: GPSL@yahoogroups.com
Sent: Fri, 1 Sep 2006 10:41 PM
Subject: Re: [GPSL] Insulation

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2664. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-02 15:18:00 UTC
From: Brek Brixius
Topic: 2627 Message: 2664

Bill:

I looked at several options before I decided to build my own airframe. One of the things I looked at was an Omaha Steaks cooler that the neighbor was throwing away. It is a very good foam cooler. The one I have is too large for my use though.

Omaha Steaks ships their steaks to their customers in these containers which can be days in transit. They must work. If you don't order as much meat, maybe you could get a more reasonable size cooler. http://www.omahasteaks.com

I also considered cutting the cooler into sections, removing a section and gluing it back together to make it smaller. I may still end up going that way if what I am working on now becomes too heavy.

Brek.

wb8elk@... wrote:
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The big boys (National Scientific Balloon Foundation) have to worry about heat buildup since they usually go up to over 130,000 feet and stay there all day...plus they usually carry up massive payloads (thousands of pounds) with an array of power hungry electronics that generate quite a bit of heat. Unless you are running a PC104 PC or ATV, the typical APRS payload generates extremely little heat due to the intermittent nature of it's transmissions. In the case of higher power continuous payloads like ATV, I will sometimes put the heat sink fins sticking out of the payload (in the case of 3 Watts or more)....I've had no problems with a 1 Watt ATV transmitter inside a payload.

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Sent: Wed, 30 Aug 2006 5:13 PM
Subject: Re: [GPSL] Insulation

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2665. a few new 9.6 volt, 3800maH NiMH batteries available

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-02 19:44:15 UTC
From: Hank
Topic: 2665 Message: 2665

I have a few extra of these nice APC (the UPS people) brand
batteries for sale.

9.6 volts, 3800 maH capacity. More specs to see at:

http://www.apc.com/resource/include/techspec_index.cfm?base_sku=LBCCQ1

Looks like a special type of connector, but haven't gotten
a good look at it yet.

Price would most likely be something like mid twenties dollars
plus shipping (from Massachusetts). Less per unit if you'd
like two.

Lots and lots of uses for on or off your balloon. Please post
any questions here, and email to order.

Hank

2666. RE: [GPSL] Insulation - I have some Space Station insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-03 00:52:15 UTC
From: Doug Loughmiller
Topic: 2627 Message: 2666

Hey Bill,

How thick is the material you have? Is it reasonably easy to work with? Also, we are scheduled to fly ARBONET-1 September 30th. Launch time 9:00 AM CDT. I'll let you know how it goes.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Saturday, September 02, 2006 2:58 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Insulation - I have some Space Station insulation

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<http://us.rd.yahoo.com/evt=43256/*http:/advision.webevents.yahoo.com/mailbeta> - Fire up a more powerful email and get things done faster.

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2667. RE: [GPSL] Insulation - I have some Space Station insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-03 17:08:27 UTC
From: Mark Garrett
Topic: 2627 Message: 2667
Attachments: 1 described; binary payloads are missing from this source WARC

Bill:

If you have a pallet of it you should cover a house in it. Be the envy of your neighborhood!

Mark

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>anyone is interested in trying it.
>
>
>
>- Bill WB8ELK
>
>

>
>
>-----Original Message-----
>From: gofly2007@...
>To: GPSL@yahoogroups.com
>Sent: Fri, 1 Sep 2006 10:41 PM
>Subject: Re: [GPSL] Insulation
>
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>nearspacecraft interior. First egg fried at 100,000 feet? Or, 50,000
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>Note to self: Have adjustable mission objectives to minimize possibility
>of failure.
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>I have been reading some of your material I found on
>Parallax.com. Thanks. Materials like that really help guys like me
>who... how should I put this... guys like me who don't know what they are
>doing.
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>I am interested to see if I can get warmer inside temps as well. I'm not
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>>airframes. The Styro keeps the interior pretty warm by itself. I'd like
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>>Paul
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>>framing and the insulation is already installed.
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>>I am not sure how the weight of this material compares to the wieght of
>>materials other folks are using. Two 10" x 10" pallets, my Garmin 18,
>>Open Tracker 1x, Handy Talkie minus its battery and 4 pvc through tubes
>>20" in length weighed 1 lb 12 oz. on our digital mail scale.
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>>Funny thing is, it would cost a lot less to ship it 20 miles horizontally
>>than 20 miles vertically.
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>>effective. My experiments show that wrapping the airframe in dark colors
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>>Paul
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>>Since I have never done this before, I have a lot of questions. What is
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>><http://topweb.gsfc.nasa.gov/balloon/inside.html>http://topweb.gsfc.nasa.gov/balloon/ins
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>>balloon flights can last for more than two weeks. When the balloon
>>reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94
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>>warmed up by the Sun and the temperature rises to about -40 Celsius (-40
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>>Since the air pressure is low (1/500ths of sea level pressure), cooling
>>by air works much less well at ballooning altitudes than it does on the
>>ground. So even though the outside air is very cold, it doesn't take heat
>>away from the package very well, so the usual sources of heat (Sun, or
>>the operation of electronics, etc. inside the package) can potentially
>>cause the package to get very hot."
>>
>>I wonder if they have heat problems do to the longer duration and/or
>>higher altitudes?
>>
>>Any comments you folks have would be greatly appreciated.
>>
>>Thanks
>>Brek.
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>>How low will we go? Check out Yahoo! Messenger's low PC-to-Phone call rates.
>>
>>
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>>All-new Yahoo! Mail - Fire up a more powerful email and get things done
>>faster.
>
>
>
><http://us.rd.yahoo.com/evt=43256/*http:/advision.webevents.yahoo.com/mailbeta>All-new

>Yahoo! Mail - Fire up a more powerful email and get things done faster.
>
>----------
><http://pr.atwola.com/promoclk/1615326657x4311227241x4298082137/aol?redir=http%3A%2F%2Fwww%2Eaol%2Ecom>Check
>out AOL.com today. Breaking news, video search, pictures, email and IM.
>All on demand. Always Free.
>
>
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date: 9/1/2006

2668. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-03 02:21:06 UTC
From: Mike Manes
Topic: 2627 Message: 2668

Hi Brek and Bill,

A prefab styrofoam package can be a neat, fast solution - if you can find one the right size and shape. Ultimately, you're gonna have to do a little carving or cubbyhole stuffing, tho.

Another consideration is one I discussed during my pitch at GPSL 06 re "barn door" vs "low drag" packages, which really can make a difference in how clean your post-burst descent ends up. Larry K0ANI used a 4" fiberglass rocket tube and nosecone from the hobby shop for his ultimate low drag payload. It lacks sufficient thermal insulation, perhaps.

73 de Mike W5VSI

Brek Brixius wrote:
> Bill:
>
> I looked at several options before I decided to build my own airframe.
> One of the things I looked at was an Omaha Steaks cooler that the
> neighbor was throwing away. It is a very good foam cooler. The one I
> have is too large for my use though.
>
> Omaha Steaks ships their steaks to their customers in these containers
> which can be days in transit. They must work. If you don't order as
> much meat, maybe you could get a more reasonable size cooler.
> http://www.omahasteaks.com
>
> I also considered cutting the cooler into sections, removing a section
> and gluing it back together to make it smaller. I may still end up
> going that way if what I am working on now becomes too heavy.
>
> Brek.
>
>
> */wb8elk@.../* wrote:
>
> Brek,
>
> The big boys (National Scientific Balloon Foundation) have to
> worry about heat buildup since they usually go up to over 130,000
> feet and stay there all day...plus they usually carry up massive
> payloads (thousands of pounds) with an array of power hungry
> electronics that generate quite a bit of heat. Unless you are
> running a PC104 PC or ATV, the typical APRS payload generates
> extremely little heat due to the intermittent nature of it's
> transmissions. In the case of higher power continuous payloads like

> ATV, I will sometimes put the heat sink fins sticking out of the
> payload (in the case of 3 Watts or more)....I've had no problems
> with a 1 Watt ATV transmitter inside a payload.
>
> I like the 2-inch thick styrofoam package that the ozonesondes
> come in....available for $25 from the manufacturer of the
> ozonesondes....or something similar (someone at GPSL mentioned that
> steaks come in a similar package when sent in the mail).
>
> - Bill WB8ELK
>
>
>
> -----Original Message-----
> From: paul.verhage@...
> To: GPSL@yahoogroups.com
> Sent: Wed, 30 Aug 2006 5:13 PM
> Subject: Re: [GPSL] Insulation
>
> The charts from my 2 hour flights show the internal temperature dropping to 30 degrees before warming back up again.
> At balloon burst the temperature drops again for a short period of time. I warp my airframes in MLI, but I don't think we get a hard enough vacuum to make MLI effective. My experiments show that wrapping the airframe in dark colors makes it several degrees warmer. Paul >>> Brek Brixius <gofly2007@... <mailto:gofly2007%40yahoo.com>> 8/29/2006 11:38:14 pm >>> To start, I would like to introduce myself to the group. My name is Brek Brixius. I attended GPSL 06. While there, I kind of kept to the shadows. I am currently working at constructing a balloon that I hope to launch in 2007. Since I have never done this before, I have a lot of questions. What is on my mind at the moment though is, insulation. At GPSL it seemed like folks were concerned about their packages getting cold and freezing. I am preparing to build my airframe and have been reading some NASA sites about MLI on
> spacecraft as well as a NASA site regarding balloons. In both cases, they seem to worry about heat - see the following taken from http://topweb.gsfc.nasa.gov/balloon/inside.html <http://topweb.gsfc.nasa.gov/balloon/inside.html> "Balloons can fly to an altitude of 26 miles (42 kilometers), with flights lasting an average of 12 to 24 hours. Special Long Duration balloon flights can last for more than two weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes
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> ---
> *Check out AOL.com today*
> <http://pr.atwola.com/promoclk/1615326657x4311227241x4298082137/aol?redir=http%3A%2F%2Fwww%2Eaol%2Ecom>.
> Breaking news, video search, pictures, email and IM. All on demand.
> Always Free.
>

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> ---
> Get your own web address for just $1.99/1st yr <
> http://us.rd.yahoo.com/evt=43290/*http://smallbusiness.yahoo.com/domains>.
> We'll help. Yahoo! Small Business
> <http://us.rd.yahoo.com/evt=41244/*http://smallbusiness.yahoo.com/>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2669. Camera Ports

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-05 05:15:43 UTC
From: Brek Brixius
Topic: 2669 Message: 2669

I have some 1.3 megapixel digital cameras that I got at Walmart. I have stripped them down - removing the plastic shell, the lcd, the flash cap, flash bulb, piezo, wrist strap. The result is pretty light.

What I am wondering about though is how folks mount their cameras. Do you set them back away from the outside wall and cover with a window? Or do you just poke the lense out the side?

I have done some experimenting with shooting pics through a tube. It looks like if I recess the cams much the opening will need to be rather large.

Brek.

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2670. Re: [GPSL] Insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-05 13:53:52 UTC
From: PAUL VERHAGE
Topic: 2627 Message: 2670

A prefab styrofoam package can be a neat, fast solution - if you can find one the right size and shape. Ultimately, you're gonna have to do a little carving or cubbyhole stuffing, tho.

If I can chime in on something Mike just said. My book on the Parallax website describes how I assemble airframes from 3/4 inch thick Styrofoam. It's a free download.

Paul

2671. Re: [GPSL] Camera Ports

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-05 13:55:26 UTC
From: mconner1@gmail.com
Topic: 2669 Message: 2671
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2672. RE: [GPSL] Insulation - I have some Space Station insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-05 13:54:33 UTC
From: PAUL VERHAGE
Topic: 2627 Message: 2672

This would be great to hand out samples of at the next GPSL.

Paul

>>> Mark Garrett <ka9szx@...> 9/3/2006 11:08 am >>>
Bill:

If you have a pallet of it you should cover a house in it. Be the envy
of
your neighborhood!

Mark

At 07:52 PM 9/2/2006, you wrote:

>Hey Bill,
>
>
>
>How thick is the material you have? Is it reasonably easy to work
with?
>Also, we are scheduled to fly ARBONET-1 September 30th. Launch time
9:00
>AM CDT. I'll let you know how it goes.
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>73,
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>Doug, W5BL
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>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of

>wb8elk@...
>Sent: Saturday, September 02, 2006 2:58 AM
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>>All-new Yahoo! Mail - Fire up a more powerful email and get things
done
>>faster.
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><http://us.rd.yahoo.com/evt=43256/*http:/advision.webevents.yahoo.com/mailbeta>All-new

>Yahoo! Mail - Fire up a more powerful email and get things done
faster.
>
>----------
><http://pr.atwola.com/promoclk/1615326657x4311227241x4298082137/aol?redir=http%3A%2F%2Fww
w%2Eaol%2Ecom>Check

>out AOL.com today. Breaking news, video search, pictures, email and
IM.
>All on demand. Always Free.
>
>
>
>No virus found in this incoming message.
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>Version: 7.1.405 / Virus Database: 268.11.7/436 - Release Date:
9/1/2006

2673. Re: [GPSL] Camera Ports

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-05 18:52:39 UTC
From: PAUL VERHAGE
Topic: 2669 Message: 2673

I mount my cameras in a box. Some times it's inside the module and other times mounted to the outside. Leave an opening large enough for the lens and any light sensor or focus sensor to see out. Don't put a window over the lens, it's just a surface for condensation to form. I have enough pictures of frost at 90,000 feet to suit me, thank you.

Paul

>>> Brek Brixius <gofly2007@...> 9/4/2006 11:15 pm >>>
I have some 1.3 megapixel digital cameras that I got at Walmart. I have stripped them down - removing the plastic shell, the lcd, the flash cap, flash bulb, piezo, wrist strap. The result is pretty light.

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http://mail.yahoo.com

2674. Re: [GPSL] Insulation - I have some Space Station insulation

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-06 03:01:01 UTC
From: wb8elk@aol.com
Topic: 2627 Message: 2674

Hi Doug,

I believe the space station insulation is about a half inch thick....I'll try to get more detailed info on it when I get back home. I'll be back in Alabama the weekend of your flight and will look for it.

- Bill

-----Original Message-----
From: W5BL@...
To: GPSL@yahoogroups.com
Sent: Sat, 2 Sep 2006 8:52 PM
Subject: RE: [GPSL] Insulation - I have some Space Station insulation

Hey Bill,

How thick is the material you have? Is it reasonably easy to work with? Also, we are scheduled to fly ARBONET-1 September 30th. Launch time 9:00 AM CDT. I'll let you know how it goes.

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Brek.

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I read a NASA document that talked about multilayer insulation efficiency. It said that gas (air) trapped between the layers during manufacture dramatically reduced the efficiency. They were testing 15 layer MLI Their solution was to perferate the layers at regular intervals to allow the gas to escape. I wish I could find the document for you. I thought I had saved it on my computer but can not find it now.

Some other information I came across indicated that Chinese space blankets are of inferior quality. Even so, I am going to try to make an MLI with cheap Walmart spaceblanket and foamies in place of scrim. That is assuming I can find a glue that will flex enough and stick well to both materials. I have a can of spray adhesive I thought might work.

I have started building the air frame. I am using some rather thick (1 1/2") foam beadboard I already have on hand. I am bonding coroplast to each side of the foam (at least on the base and top pallets) with Elmer's Ultimate. I am orienting the veins in the coroplast so that they run perpendicular to the veins on the other side of the foam. This makes a very rigid yet light construction material. They make a similar material for the construction industry that bonds a wood product to foam. Houses can be built from that material very quickly because there is no need for framing and the insulation is already installed.

I am not sure how the weight of this material compares to the wieght of materials other folks are using. Two 10" x 10" pallets, my Garmin 18, Open Tracker 1x, Handy Talkie minus its battery and 4 pvc through tubes 20" in length weighed 1 lb 12 oz. on our digital mail scale.

Funny thing is, it would cost a lot less to ship it 20 miles horizontally than 20 miles vertically.

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
The charts from my 2 hour flights show the internal temperature dropping to 30 degrees

before warming back up again. At balloon burst the temperature drops again for a short period of time. I warp my airframes in MLI, but I don't think we get a hard enough vacuum to make MLI effective. My experiments show that wrapping the airframe in dark colors makes it several degrees warmer.

Paul

>>> Brek Brixius <gofly2007@...> 8/29/2006 11:38:14 pm >>>
To start, I would like to introduce myself to the group. My name is Brek Brixius. I attended GPSL 06. While there, I kind of kept to the shadows. I am currently working at constructing a balloon that I hope to launch in 2007.

Since I have never done this before, I have a lot of questions. What is on my mind at the moment though is, insulation.

At GPSL it seemed like folks were concerned about their packages getting cold and freezing. I am preparing to build my airframe and have been reading some NASA sites about MLI on spacecraft as well as a NASA site regarding balloons. In both cases, they seem to worry about heat - see the following taken from http://topweb.gsfc.nasa.gov/balloon/inside.html

"Balloons can fly to an altitude of 26 miles (42 kilometers), with flights lasting an average of 12 to 24 hours. Special Long Duration balloon flights can last for more than two weeks. When the balloon reaches 50,000 feet, the temperature drops to -70 degrees Celsius (-94 Fahrenheit). However, at the balloon's highest altitude it gets somewhat warmed up by the Sun and the temperature rises to about -40 Celsius (-40 Fahrenheit). Even though the temperature is still extremely low, there are often more concerns with the payload getting too hot than too cold. Since the air pressure is low (1/500ths of sea level pressure), cooling by air works much less well at ballooning altitudes than it does on the ground. So even though the outside air is very cold, it doesn't take heat away from the package very well, so the usual sources of heat (Sun, or the operation of electronics, etc. inside the package) can potentially cause the package to get very hot."

I wonder if they have heat problems do to the longer duration and/or higher altitudes?

Any comments you folks have would be greatly appreciated.

Thanks
Brek.

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Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2675. Re: [GPSL] Camera Ports

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-05 06:05:27 UTC
From: Mike Manes
Topic: 2669 Message: 2675

Try applying a clear plastic window over the aperture in the housing,
and it may help to use some Rain-X to keep it from frosting up. You
can test the camera for cold tolerance by putting it in the freezer of
your 'fridge - usually running at zero F or -16C.

73 de Mike W5VSI

Brek Brixius wrote:
> I have some 1.3 megapixel digital cameras that I got at Walmart. I have
> stripped them down - removing the plastic shell, the lcd, the flash cap,
> flash bulb, piezo, wrist strap. The result is pretty light.
>
> What I am wondering about though is how folks mount their cameras. Do
> you set them back away from the outside wall and cover with a window?
> Or do you just poke the lense out the side?
>
> I have done some experimenting with shooting pics through a tube. It
> looks like if I recess the cams much the opening will need to be rather
> large.
>
> Brek.
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2676. GPSL 2007 possible date?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-06 23:51:37 UTC
From: Roger Hammond
Topic: 2676 Message: 2676

How would everyone feel about having GPSL 2007 on July 6 and 7
(Friday/Saturday) of next year?
If there isn't any serious opposition, I'll start making some calls to the
local hotels to see about the availability of a conference room.

73,

Roger KC0MWM
rahammond@...
www.cnnsp.org

2677. Re: [GPSL] GPSL 2007 possible date?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-07 00:39:00 UTC
From: wb8elk@aol.com
Topic: 2676 Message: 2677

That's a good date for me.

- Bill WB8ELK

-----Original Message-----
From: rahammond@...
To: GPSL@yahoogroups.com
Sent: Wed, 6 Sep 2006 4:51 PM
Subject: [GPSL] GPSL 2007 possible date?

How would everyone feel about having GPSL 2007 on July 6 and 7 (Friday/Saturday) of next year?
If there isn't any serious opposition, I'll start making some calls to the local hotels to see about the availability of a conference room.

73,

Roger KC0MWM
rahammond@...
www.cnnsp.org

_____
Check out AOL.com today. Breaking news, video search, pictures, email and IM. All on demand. Always Free.

2678. Re: [GPSL] Camera Ports

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-06 05:12:06 UTC
From: Mike Manes
Topic: 2669 Message: 2678

I use a thin sheet of Mylar film for my camera window, like for an overhead transparency, plus a bag of desiccant inside payload to absorb moisture, and it's never frosted up. Back when we used a steerable glass mirror to aim the image, we did encounter frost if I didn't apply a fresh coat of exterior (windshield grade) Rain-X.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I mount my cameras in a box. Some times it's inside the module and
> other times mounted to the outside. Leave an opening large enough for
> the lens and any light sensor or focus sensor to see out. Don't put a
> window over the lens, it's just a surface for condensation to form. I
> have enough pictures of frost at 90,000 feet to suit me, thank you.
>
> Paul
>
>>>> Brek Brixius <gofly2007@...> 9/4/2006 11:15 pm >>>
> I have some 1.3 megapixel digital cameras that I got at Walmart. I
> have stripped them down - removing the plastic shell, the lcd, the flash
> cap, flash bulb, piezo, wrist strap. The result is pretty light.
>
> What I am wondering about though is how folks mount their cameras.
> Do you set them back away from the outside wall and cover with a window?
> Or do you just poke the lense out the side?
>
> I have done some experimenting with shooting pics through a tube. It
> looks like if I recess the cams much the opening will need to be rather
> large.
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> Brek.
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> ---
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2679. Re: Battery Chargers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-07 17:06:33 UTC
From: Hank
Topic: 2618 Message: 2679

> I can only hope everyone is smart enouth to figure out
> that charging any type of battery can be very dangerous.

> One of the warnings are Never charge a battery unsupervised.

Jon,

Are you talking about *any* battery, or batteries for
R/C use, or some other qualification to the phrase
"any battery."

Many batteries and battery charging systems operate very,
very safely unsupervised.

Is the warning you speak of something that came with
the Triton or similar charger?

Hank

2680. Fwd: Last Call for SmallStat 2006 Registration

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-07 17:59:23 UTC
From: mconner1@gmail.com
Topic: 2680 Message: 2680
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2681. Re: [GPSL] GPSL 2007 possible date?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-07 18:33:32 UTC
From: PAUL VERHAGE
Topic: 2676 Message: 2681

That would be a good weekend for me.

Paul

>>> "Roger Hammond" <rahammond@...> 9/6/2006 5:51 pm >>>
How would everyone feel about having GPSL 2007 on July 6 and 7
(Friday/Saturday) of next year?
If there isn't any serious opposition, I'll start making some calls to
the
local hotels to see about the availability of a conference room.

73,

Roger KC0MWM
rahammond@...
www.cnnsp.org

2682. Re: [GPSL] Fwd: Last Call for SmallStat 2006 Registration

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-08 18:52:57 UTC
From: PAUL VERHAGE
Topic: 2680 Message: 2682

I'll be there. If anyone here is going, let's do dinner on Monday.

Paul

>>> <mconner1@...> 9/7/2006 11:59 am >>>
I'm hoping to attend, if I can convince my boss it's work-related
enough to take time off work to go.

73 de Mark N9XTN

Last Call For Registrations
SmallStat 2006
A conference on Small Balloon Science, Technology and Operations
18 - 19 September 2006

Conference Web Site: http://www.ia.spacegrant.org/smallstat/

This event is open to Researchers, Students, Amateur Radio balloonists
or anyone interested in small balloon activities. Distinguished speakers
from Government (including FAA, NASA, NOAA and Air Force), Industry, and
Academe will present in plenary session. The AIAA Balloon Technical
Committee will hold a meeting in Ames, Iowa in conjunction with this
event.

The event includes a STUDENT POSTER SESSION with a top prize of $1000
plus a balloon from Global Western, $750 2nd place, and $250 3rd place.
A huge corporate recruiting event with over 300 companies is held in
conjunction with this event.

Prize Drawing for Amateur Radio Operators to win a Balloon from Global
Western

Please broadly distribute this announcement and encourage attendance.

I hope to see you and your colleagues there.

Bill Byrd
Conference Host

SmallStat 2006 is an activity of the Great Midwestern Space Grant
region

2683. Re: [GPSL] GPSL 2007 possible date?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-08 04:48:37 UTC
From: Mike Manes
Topic: 2676 Message: 2683

Hi Roger,

I'll survey the EOSS membership at our meeting next Tues 9/12 and
get back. There are no direct conflicts, but EOSS is on tap for
heavy two-fers the weekends on either side. Could bump the price of
hall passes! But if the meeting is gonna be in Grand Island vcty,
I'd expect a pretty good showing from Colo in any event - heck, we've
recovered from farther than that :=}.

73 de Mike W5VSI

Roger Hammond wrote:
> How would everyone feel about having GPSL 2007 on July 6 and 7
> (Friday/Saturday) of next year?
> If there isn't any serious opposition, I'll start making some calls to
> the local hotels to see about the availability of a conference room.
>
> 73,
>
> Roger KC0MWM
> rahammond@... <mailto:rahammond@...>
> www.cnnsp.org <http://www.cnnsp.org>
>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2684. RE: [EOSS] Re: [GPSL] GPSL 2007 possible date?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-11 04:46:37 UTC
From: Marty Griffin
Topic: 2676 Message: 2684

Hi Roger,
I don't see any dates on the Colorado MS-150 web site, but it is possible that the MS-150 will be that weekend in Colorado. Many of our members support that effort. It seems up in the air...
- Marty, WA0GEH

-----Original Message-----
From: EOSS@yahoogroups.com [mailto:EOSS@yahoogroups.com] On Behalf Of Mike Manes
Sent: Thursday, September 07, 2006 10:49 PM
To: GPSL@yahoogroups.com
Cc: EOSS membership reflector
Subject: [EOSS] Re: [GPSL] GPSL 2007 possible date?

Hi Roger,

I'll survey the EOSS membership at our meeting next Tues 9/12 and get back. There are no direct conflicts, but EOSS is on tap for heavy two-fers the weekends on either side. Could bump the price of hall passes! But if the meeting is gonna be in Grand Island vcty, I'd expect a pretty good showing from Colo in any event - heck, we've recovered from farther than that :=}.

73 de Mike W5VSI

Roger Hammond wrote:
> How would everyone feel about having GPSL 2007 on July 6 and 7
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> 73,
>
> Roger KC0MWM
> rahammond@... <mailto:rahammond@...> www.cnnsp.org
> <http://www.cnnsp.org>
>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

2685. Data Logger

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-13 23:53:39 UTC
From: Troy Campbell
Topic: 2650 Message: 2685

Here's a really small low power data logger that implements FAT16 and FAT32, can use upto 4gb SD cards, has async and SPI interface for $39.95 .

http://www.sparkfun.com/commerce/product_info.php?products_id=7955

You can also get it from www.wearable.com

Haven't used it yet but it looks better than the 2-3 other choices that we've been looking at.

73 de Troy KC0MIC

Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail.

2686. Re: Data Logger

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-14 15:01:54 UTC
From: Hank
Topic: 2650 Message: 2686

> Here's a really small low power data logger that
> implements FAT16 and FAT32, can use upto 4gb SD cards,
> has async and SPI interface for $39.95.

Troy,

Thanks for keeping up on these devices and letting us
all know what's going on.

What is very interesting is that the IC is about $12,
so that means we've got a nice datalogger for about $22
if we can get our own boards designed and built.

I don't think that's a big "if."

Hank

2687. HOBO dataloggers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-15 17:01:19 UTC
From: Troy Campbell
Topic: 2680 Message: 2687

Paul,

What model of the HOBO datalogger do you use for your workshops (or do you use them?)

Troy

How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

2688. Re: [GPSL] HOBO dataloggers

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-15 19:00:26 UTC
From: PAUL VERHAGE
Topic: 2680 Message: 2688

I use the ones with the internal temp and an external voltage. The external voltage is hooked up to a thermistor for external temperature sensing.

I'm playing with a Hobo that also records RH. I'll cut a hole in the airframe over the RH sensor and get the air RH.

I have used a four external channel Hobo for myself. You'll need to make (or buy) all four of your sensors for that one.

The Hobo uses a 3/32" stereo jack. That provides 2.5 V power, a ground, and voltage input. My early articles in Nuts and Volts gives the pin out and some suggested sensors.

I'm leaving for Iowa in a few minutes, so I can't look it up for you. But if you go to my book on the parallax.com site, they've started PDf'ing my N&V articles.

My next article is on a BalloonSat flight computer that you can use in place of a Hobo. After that I'll write about my PongSat flight computer.

Paul

>>> Troy Campbell <kc0mic@...> 9/15/2006 11:01 am >>>
Paul,

What model of the HOBO datalogger do you use for your workshops (or do you use them?)

Troy

How low will we go? Check out Yahoo! Messenger□s low PC-to-Phone call rates.

2689. SmallStat

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-16 16:39:23 UTC
From: PAUL VERHAGE
Topic: 2689 Message: 2689

I'm on the road to SmallStat. I brought a tracker, you find me under KD4STH-7.

Paul

2690. SmallStat 2006 conference presentations are online

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-26 15:32:45 UTC
From: mconner1@gmail.com
Topic: 2690 Message: 2690

http://cosmos.ssol.iastate.edu/isgc/smallstat/presentations.html

Two of the most interesting ones (from the FAA and SpaceData) are not yet available for download but should be eventually.

73 de Mark N9XTN

2691. I'm a HAM!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-30 02:33:42 UTC
From: Brek Brixius
Topic: 2691 Message: 2691

Last Sunday I took the technician exam. I am now Brek KC0YOE. My wife had been listening to me as I studied. I read out loud to improve retention. She decided she had listened well enough that she wanted to take the test as well. She is now Angela KC0YOF. :)

When I'm read then I can start working on the balloon tracking system. Recently I have been flying one of my cameras from a kite. I have 7 foot delta conyne. Some of the KAP sites recommend a bigger kite. In winds like we had today, the 7 footer is big enough.

My line was humming like something from a sci-fi movie. Towards dusk a couple of bats came out and flew around the line for several minutes. That was fun to see.

By the way, I have a bunch of 110 pound dacron kite string. Is it any good for the balloon or what sort of line do I need?

Brek.

Get your email and more, right on the new Yahoo.com

2692. FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-30 02:53:03 UTC
From: Holmes, Will
Topic: 2692 Message: 2692

You mentioned 110 pound kite string, and that made me think of something I have been wondering about for a while. FAR 101 states has something about the test strength of string connecting packages. I believe the strength it states is 50 pound test.

How do the different groups interpret this and what do you use?

Will Holmes
Taylor University

From: GPSL@yahoogroups.com on behalf of Brek Brixius
Sent: Fri 9/29/2006 9:33 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] I'm a HAM!

Last Sunday I took the technician exam. I am now Brek KC0YOE. My wife had been listening to me as I studied. I read out loud to improve retention. She decided she had listened well enough that she wanted to take the test as well. She is now Angela KC0YOF. :)

When I'm read then I can start working on the balloon tracking system. Recently I have been flying one of my cameras from a kite. I have 7 foot delta conyne. Some of the KAP sites recommend a bigger kite. In winds like we had today, the 7 footer is big enough.

My line was humming like something from a sci-fi movie. Towards dusk a couple of bats came out and flew around the line for several minutes. That was fun to see.

By the way, I have a bunch of 110 pound dacron kite string. Is it any good fo r the balloon or what sort of line do I need?

Brek.

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2693. RE: [GPSL] I'm a HAM!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-30 11:57:48 UTC
From: Roger Hammond
Topic: 2691 Message: 2693

Brek,

Congratulations on you and your wife getting your Tech Licenses!
I use 200 lb. Spectra kite line and haven't had any problems, however, it may a little over-kill.

Were the bats threatened by the Batman camera? ;-)
Seriously, after you mentioned the inexpensive Batman cameras you were using, I went to Wal-Mart the next day to see if they had any. All I could find were some pink princess cam's, I opted to not purchase one.

73,

Rog - KC0MWM
www.cnnsp.org

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Friday, September 29, 2006 9:34 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] I'm a HAM!

Last Sunday I took the technician exam. I am now Brek KC0YOE. My wife had been listening to me as I studied. I read out loud to improve retention. She decided she had listened well enough that she wanted to take the test as well. She is now Angela KC0YOF. :)

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My line was humming like something from a sci-fi movie. Towards dusk a couple of bats came out and flew around the line for several minutes. That was fun to see.

By the way, I have a bunch of 110 pound dacron kite string. Is it any good f! or the balloon or what sort of line do I need?

Brek.

Get your email and more, right on the new <http://us.rd.yahoo.com/evt=42973/*http://www.yahoo.com/preview> Yahoo.com

2694. FAR 101 line strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-30 15:54:07 UTC
From: K. Mark Caviezel
Topic: 2694 Message: 2694

Will:
Be careful on how your read part 101. It makes no reference to tensile strength:

<excerpt>:
(iv) Uses a rope or other device for suspension of the payload that requires an impact force of more than 50 pounds to separate the suspended payload from the balloon
<end excerpt>

I've conducted a certain amount of research, and have not found a definition of 'impact force'. Many experienced ARHABians know that 50 lb tensile is not sufficient to keep a 6 pound payload attached to the parachute during the first ten miles of fall. If anyone here can point us all to a definition of impact strength, many of us would be in a better position to comply with part 101 exempt status. The alternative of course is to apply for a waiver to Part 101 requirements, or fly Part 101 compliant, but non-exempt. To fly 101 compliant, but non-exempt, file a hi-ball report 6-24 hours before the flight as detailed in 101.37. The regulations are pretty simple, but in my experience many 'local FAAs' have different interpretations, many will try to force you to file for a waivered flight even if you intend to operate the flight with no deviations from the regulations. I have always been an advocate of uniform compliance to the official, published regulations.

- Mark Caviezel ng0X

2.
FAR 101 Line Strength
Posted by: "Holmes, Will"
wlholmes@...
wlholmestu Fri Sep 29,
2006 8:00 pm (PST) You
mentioned 110 pound kite string, and that made me think of something I have been wondering about for a while. FAR 101 states has something about the test strength of string connecting packages. I believe the strength it states is 50 pound test.

How do the different groups interpret this and what
do you use?

Will Holmes
Taylor University

From: GPSL@yahoogroups.com on behalf of Brek Brixius
Sent: Fri 9/29/2006 9:33 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] I'm a HAM!

Last Sunday I took the technician exam. I am now Brek
KC0YOE. My wife had been listening to me as I
studied. I read out loud to improve retention. She
decided she had listened well enough that she wanted
to take the test as well. She is now Angela KC0YOF.
:)

When I'm read then I can start working on the balloon
tracking system. Recently I have been flying one of
my cameras from a kite. I have 7 foot delta conyne.
Some of the KAP sites recommend a bigger kite. In
winds like we had today, the 7 footer is big enough.

My line was humming like something from a sci-fi
movie. Towards dusk a couple of bats came out and
flew around the line for several minutes. That was
fun to see.

By the way, I have a bunch of 110 pound dacron kite
string. Is it any good fo r the balloon or what sort
of line do I need?

Brek.

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Individual | Switch format to Traditional
Visit Your Group | Yahoo!
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2695. Re: [GPSL] I'm a HAM!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-30 22:54:11 UTC
From: Mike Manes
Topic: 2691 Message: 2695

Congrats on getting your ticket, Brek! I hope you'll find ham radio to have far more fun and interesting aspects than just for ARHAB.

Re dacron cord: It's probably useful for balloon flight strings, but it's not nearly as "stretchy" as nylon. This means that line tension can soar under acceleration, as during launch and in particular post-burst chaos. I got a roll of if from U Wyo's retired balloon program, marked "DON'T USE" for that very reason. And EOSS has experienced a couple of line separations in flight - dacron cord was in use in both cases.

EOSS uses woven nylon cord - the 250# tensile cord is sold as kite string, while the 500# stuff is used for our heavy flights. We've never encountered a line break with that stuff.

73 de Mike W5VSI

Brek Brixius wrote:
> Last Sunday I took the technician exam. I am now Brek KC0YOE. My wife
> had been listening to me as I studied. I read out loud to improve
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>
>
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2696. Re: [GPSL] FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-09-30 23:11:56 UTC
From: Mike Manes
Topic: 2692 Message: 2696

Hi Will,

FAR 101 stipulates "impact force", not tensile strength. From
FAR 101.1.a.4:

(iv) Uses a rope or other device for suspension of the payload that
requires an impact force of more than 50 pounds to separate the suspended
payload from the balloon.

That term is also used in 101.35 referring to trailing wire antennas.

I've never found a technical definition for "impact force", but the term
does imply some dynamics rather than the static conditions where tensile
strength is evaluated. The object of this requirement is ensure that
a balloon flight string will sever in the event of a collision with an
aircraft. I've swagged the impact acceleration in such an event to be well
in excess of 10 G's - meaning that 500# tensile cord should meet that
requirement.

Now, folks who have used 50 lb tensile strength cord on normal ARHAB
payloads have (or will) experience the disappointment of seeing their
balloon soar skyward, unburdened by the payload string remaining on the
surface.

73 de Mike W5VSI

Holmes, Will wrote:
> You mentioned 110 pound kite string, and that made me think of something I have been
wondering about for a while. FAR 101 states has something about the test strength of string
connecting packages. I believe the strength it states is 50 pound test.
>
> How do the different groups interpret this and what do you use?
>
> Will Holmes
> Taylor University
>
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> ---------------------------------
>
> From: GPSL@yahoogroups.com on behalf of Brek Brixius
> Sent: Fri 9/29/2006 9:33 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] I'm a HAM!
>
>
>
> Last Sunday I took the technician exam. I am now Brek KC0YOE. My wife had been listening

to me as I studied. I read out loud to improve retention. She decided she had listened well enough that she wanted to take the test as well. She is now Angela KC0YOF. :)
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> When I'm read then I can start working on the balloon tracking system. Recently I have been flying one of my cameras from a kite. I have 7 foot delta conyne. Some of the KAP sites recommend a bigger kite. In winds like we had today, the 7 footer is big enough.
>
> My line was humming like something from a sci-fi movie. Towards dusk a couple of bats came out and flew around the line for several minutes. That was fun to see.
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> By the way, I have a bunch of 110 pound dacron kite string. Is it any good fo r the balloon or what sort of line do I need?
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2697. Re: [GPSL] FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-01 02:10:10 UTC
From: P Suryono Adisoemarta
Topic: 2692 Message: 2697

Mike Manes wrote:
...
>
> Now, folks who have used 50 lb tensile strength cord on normal ARHAB
> payloads have (or will) experience the disappointment of seeing their
> balloon soar skyward, unburdened by the payload string remaining on the
> surface.

Yup,
we (ARSAT) learned the hardway. On our 2nd flight of last year, the
balloon kept going up while the payload dropped after just rose 100 feet
or so off the ground. I might still have the video if there is a plan to
create an "ARHAB Blooper Video" ;)
Since then we used a much stronger nylon cords.

73 de Paulus - N5SNN

2698. RE: Bat Cams & Picavets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-01 05:41:40 UTC
From: Brek Brixius
Topic: 2691 Message: 2698

I hadn't thought about the bat cam attracting bats. Makes sense.

I have seen the bat cams on ebay for cheap. I wouldn't recommend them for snapping pics for the family photo album but I have been getting a lot of mileage out of them.

I took my first one to work and let it snap pictures during our open house. Kind of fun to cycle through the pics like drawings on a flip pad.

The kite rig has been reconfigured several times. It has bounced of the ground when the kite took a sudden nose dive and it has been dragged through the brush. It has kept working so far (knock wood).

Originally I had the bat cam tied in-line with the kite string through holes in the printed circuit board. I got a few good pics that way but most were blurred. Recently I built a simple picavet for it. I took the picavet out today to test it but the winds were light and variable. I was only able to keep the kite aloft for a short while. Still, the picavet looks promising. Most of the pictures it took today were clear and a few were only slightly blurred.

Basically the picavet lets gravity level that camera platform. The two center lines are held close together by a small ring to minimize rotation. I wonder if this sort of suspension would be of any use on a balloon?

Anybody get blurry pictures on the way up?

Brek.

Roger Hammond <rahammond@...> wrote:
Brek,

Congratulations on you and your wife getting your Tech Licenses!
I use 200 lb. Spectra kite line and haven't had any problems, however, it may a little over-kill.

Were the bats threatened by the Batman camera? ;-)
Seriously, after you mentioned the inexpensive Batman cameras you were using, I went to Wal-Mart the next day to see if they had any. All I could find were some pink princess cam's, I opted to not purchase one.

73,

Rog - KC0MWM
www.cnnsp.org

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Friday, September 29, 2006 9:34 PM
To: GPSL@yahoogroups.com

Subject: [GPSL] I'm a HAM!

Last Sunday I took the technician exam. I am now Brek KC0YOE. My wife had been listening to me as I studied. I read out loud to improve retention. She decided she had listened well enough that she wanted to take the test as well. She is now Angela KC0YOF. :)

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My line was humming like something from a sci-fi movie. Towards dusk a couple of bats came out and flew around the line for several minutes. That was fun to see.

By the way, I have a bunch of 110 pound dacron kite string. Is it any good f! or the balloon or what sort of line do I need?

Brek.

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2699. Re: [GPSL] FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-02 02:46:06 UTC
From: Brek Brixius
Topic: 2692 Message: 2699

Thanks to everyone for their comments on line strength. Just to clarify, as I read it - it FAR 101 doesn't say you can't fly line stronger than 50#. It just says that if you do - 101 applies to you. I think I will probably use Spectra line rather than the dacron I already have.

101.1 Applicability.

(a) This part prescribes rules governing the operation in the
United States, of the following:
.
.
(4) Except as provided for in ?101.7, any unmanned free balloon
that-
.
.
(iv) Uses a rope or other device for suspension of the payload that
requires an impact force of more than 50 pounds to separate the
suspended payload from the balloon.

Brek.

Mike Manes <manes@...> wrote:
Hi Will,

FAR 101 stipulates "impact force", not tensile strength. From
FAR 101.1.a.4:

(iv) Uses a rope or other device for suspension of the payload that
requires an impact force of more than 50 pounds to separate the suspended
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That term is also used in 101.35 referring to trailing wire antennas.

I've never found a technical definition for "impact force", but the term
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a balloon flight string will sever in the event of a collision with an
aircraft. I've swagged the impact acceleration in such an event to be well
in excess of 10 G's - meaning that 500# tensile cord should meet that
requirement.

Now, folks who have used 50 lb tensile strength cord on normal ARHAB
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balloon soar skyward, unburdened by the payload string remaining on the
surface.

73 de Mike W5VSI

Holmes, Will wrote:
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> Will Holmes
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> To: GPSL@yahoogroups.com
> Subject: [GPSL] I'm a HAM!
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Mike Manes manes@... Tel: 303-979-4899
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2700. Re: [GPSL] FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-02 13:23:53 UTC
From: PAUL VERHAGE
Topic: 2692 Message: 2700

As I recall, it's the breaking strength between the balloon and line that must be 50 pounds. I don't know over what area it must be applied, but I would think the balloon nozzle will shear off with 50 pounds of force.

Paul

>>> "Holmes, Will" <wlholmes@...> 9/29/2006 8:53 pm >>>
You mentioned 110 pound kite string, and that made me think of something I have been wondering about for a while. FAR 101 states has something about the test strength of string connecting packages. I believe the strength it states is 50 pound test.

How do the different groups interpret this and what do you use?

Will Holmes
Taylor University

From: GPSL@yahoogroups.com on behalf of Brek Brixius
Sent: Fri 9/29/2006 9:33 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] I'm a HAM!

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Yahoo! Groups Links

2701. [GPSL] RE: Bat Cams & Picavets

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-02 13:30:45 UTC
From: PAUL VERHAGE
Topic: 2691 Message: 2701

Basically the picavet lets gravity level that camera platform. The two center lines are held close together by a small ring to minimize rotation. I wonder if this sort of suspension would be of any use on a balloon?

Anybody get blurry pictures on the way up?

My cameras are mounted directly to the airframe. The only time I get blurring is at launch. After that, the motion settles down. Oh, right at burst is another time I can get blurring. At that point, all Nevada breaks loose. It's interesting with digital cameras. I don't get blurring, I get distortion.

Paul

2702. RE: [GPSL] I'm a HAM!

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-02 13:25:59 UTC
From: PAUL VERHAGE
Topic: 2691 Message: 2702

Were the bats threatened by the Batman camera? ;-)
Seriously, after you mentioned the inexpensive Batman cameras you were using, I went to Wal-Mart the next day to see if they had any. All I could
find were some pink princess cam's, I opted to not purchase one.

Oh come on! Be brave! Launch that princess camera into near space!

Paul "no pink for me" Verhage

2703. Re: Post Launch Info

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-02 20:54:35 UTC
From: Mike Manes
Topic: 2703 Message: 2703

Hi Don,

Dang! Sorry to hear you lost your payload! But if someone did pick
it up, they might be kind enough to get it back to you. I've heard
that some 80% of NWS radiosondes actually get mailed back by folks
who find 'em!

Re the GPS NMEA altitude data: I'm not familiar with the Garmin GPS18lvc,
but the NMEA sentence you want is $GPGGA, which includes MSL altitude
in meters, plus lat/lon, GPS time hhmmss, no. of sats in track and
VDOP. It's really all you need for balloon tracking, although the
$GPRMC sentence also includes GPS date yymmdd, lat/lon, rcvr status and
course/speed - but no altitude.

73 de Mike W5VSI, EOSS

Arledge, Don wrote:
> Ok I'm sending one update for every body.
>
> Bill your prediction of the flight path was real close many thanks! The
> balloon went east towards Athens dipped south around the city and then
> went north towards Comer, GA. It then gave its last transmission just
> south of Abbeville, SC. When we got on site I had a tone from a 350mw
> "foxhunt" beacon Darren loaned me. We were .3 miles from the last
> position. When we got with in .1 mile or so I turned on my HT and the
> beacon wasn't there. We went to the last location and found nothing. We
> then hiked back to the truck and I tried to pick up the beacon from
> there again but still no signal. We went home and checked findu.com and
> it had a different final location. Went back out Sunday still no beacon,
> but the location for the last know position was right in front of a deer
> stand.
>
> I don't know if someone found my flight package but that's what may
> have happened, I've yet to receive a phone call. I had my name and phone
> number all over the flight package. Either that or its out there in the
> heavy woods. My wife and I intend to go back after the leaves have
> dropped to look again, visibility should be much better.
>
> The cable problem was solved Fri night, it turned out Kantronics and
> Yaesu both had the schematic backwards and when mic and speaker were
> reversed then everything started working.
>
> The GPS unit wasn't transmitting altitude data. I think I gave it
> the wrong data string to transmit, If anybody knows the right command
> please let me know.
>

> I was using a Kaymont 1500 gram balloon, flight package weighed 4 lbs
> even. The balloon had about 4.8-5 pounds of lift. 4 pounds plus 20%. The
> Balloon was released about 12:15 EDT and landed about 13:45 -14:00 EDT.
> We got to the landing area about 1 hour to 1 1/2 hours after touch down.
>
> If anyone wants to look at the raw data I'll email it to you I'd really
> appreciate some help in analyzing it. I see a lot of qro and qrd
> statements which look like I was digipeating through other ARPS devices.
> One of the devices appears to be another balloon that belonged to Jerald
> Peacock out of Marietta, GA. I've tried to reach him to see if he also
> had a launch on Sat, but thus far have not been able to reach him.
>
> So if I don't get my package back I will rebuild and try again but
> if that's the case my next launch will not be until April ish.
>
> Thus far here's what I'm out
>
> 1 RG-7 parachute from Rocketman enterprises $60
> 1 Yaesu vx-170 HT $150
> 1 Kantronics KPC3+ $180
> 1 Garmin GPS18lvc $80
> 1 mini tracker beacon $60
> Cables $25
> 3 9v lithium batteries $21
> 1 Flight package $50 plus time invested to build it
>
> All total $626 not counting the balloon and the helium. But that's the
> chance you take everytime you launch one, so I can accept that! There's
> some good lessons learned and it was a thrill to finally launch a
> balloon and watch it go. I've been wanting to do this for 3 years.
>
> So I'll take the lessons learned and start over with improvements.
>
> Thank you all for your encourgment, help and support!
>
> With highest regards,
>
> Don KI4QVO
>
> *****
>
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Mike Manes manes@... Tel: 303-979-4899
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2704. Re: [GPSL] FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-03 00:37:35 UTC
From: Zack Clobes
Topic: 2692 Message: 2704

We've always flown "exempt", which we read to mean that your load-line must break with 50 pounds of force. Unfortunately they don't really specify what that force is.

I don't think that a balloon would stand a chance if it got snagged up on a jet - it'd rip it to shreds.

However, on a single-engine light plane, I'm not so sure that the balloon would rip apart. I've seen some of those envelopes take quite a beating on the ground and during lift-off. In a worst-case scenario, I think I small Cessna or the like could probably take a flight string for a ride, and I'm not sure that the landing would be very graceful. Catching a balloon on the wing would add a lot of additional drag and severe yaw to the flight, that may not be controllable throughout landing.

We've flowing 50lbs test line on ALL flights. And we have actually had a failure.

During a winter morning launch in about 20mph wind, I had tied up a 50lbs "weak link" in the load line. It was the same mono-filament string that we had used on nearly a half-dozen other flights with no problems, but for some reason in the 25F, brisk morning wind, the line became extremely brittle - it was literally crumbling in our hands. We tried re-tyeing it and launching, but the balloon snapped away and left the payload on the ground.

At that point, we switched to Kevlar "Spider Wire" for our link, and have not had a failure since.

We actually flew mono-filament, paralleled by Kevlar for several flights after the failure until we became comfortable with the new line. None of the mono-filament ever failed again. The only thing I can attribute the one-time brittleness to was that it must have come in contact with some chemical while it was being prepped for flight. The same reel has/had been used for 7+ flights, had been used as guy-wires on my HF mobile antenna for 3+ years, etc.

My opinion, don't try to bend the rules to save a few bucks or a few minutes.

Zack Clobes, W0ZC
Project: Traveler

PAUL VERHAGE wrote:
>
> As I recall, it's the breaking strength between the balloon and line
> that must be 50 pounds. I don't know over what area it must be applied,

> but I would think the balloon nozzle will shear off with 50 pounds of
> force.
>
> Paul
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> >>> "Holmes, Will" <wlholmes@...
> <mailto:wlholmes%40taylor.edu>> 9/29/2006 8:53 pm >>>
> You mentioned 110 pound kite string, and that made me think of
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2705. Re: [GPSL] FAR 101 Line Strength

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-03 02:49:03 UTC
From: Brek Brixius
Topic: 2692 Message: 2705

Zack: Could you please explain what it means to fly exempt?

Pardon me if this sounds like a dumb question. I have a lot of dumb questions. I would rather ask them and learn than remain ignorant. I want to construct a balloon that meets all the regs and will be safe and successful and not harm anyone or anything. If it takes more time or money, fine.

I am wanting to be ready to fly my balloon at GPSL 2007. I have a long ways to go to meet that goal. I really appreciate everyone's help and input.

Even though I am a long way from completion, the balloon project has been great fun. I've learned a lot about electronics, acquired an new hobby (Kite Aerial Photography) and taken tons of photos of everything from dirt to the sun. I have earned an amateur radio license and so has my wife. I have used a temperature logger I bought for the balloon to graph the overnight low temperature in my pumpkin patch and I learned more about how plants react to cold. Even if I stop now, I think it has been well worth my time.

But I don't want to stop. I want that photo of from the top shelf. So look for me at GPSL 2007. :)

One more thought I have about line strength is, these products list a test weight - say 50#. To me that says, the product (or a sample of it) was tested at 50# and did not break. I used to work for a factory that produced a product that was 100% tested and the certified test rating was approx. 1/3 of what nearly all of the product would actually endure before failure. I don't know exactly why they set the test ratings where they did. It would make sense to do so as insurance against failure. You can't sell product that failed the test. So you can't afford to have product fail the test. A failed test might endanger your workers or damage your equipment. The amount that the product will take over test is insurance against law suits. If your product routinely performs to the limits of its spec. you get a reputation for delivering a quality product and you can charge more for it. For whatever reasons, I suspect line/cord manufacturers may also state a test rating that is low.

Brek.

Zack Clobes <zclobes@...> wrote:
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When I'm read then I can start working on the balloon tracking system. Recently I have been flying one of my cameras from a kite. I have 7 foot delta conyne. Some of the KAP sites recommend a bigger kite. In winds like we had today, the 7 footer is big enough.

My line was humming like something from a sci-fi movie. Towards dusk a couple of bats came out and flew around the line for several minutes. That was fun to see.

By the way, I have a bunch of 110 pound dacron kite string. Is it any good fo r the balloon or what sort of line do I need?

Brek.

Get your email and more, right on the new Yahoo.com
<http://us.rd.yahoo.com/evt=42973/*http://www.yahoo.com/preview>

Yahoo! Groups Links

Get your email and more, right on the new Yahoo.com

2706. Re: [GPSL] Re: Post Launch Info

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-03 09:35:24 UTC
From: yono@i2.co.id
Topic: 2703 Message: 2706

>
> Arledge, Don wrote:
> >
> > I don't know if someone found my flight package but that's
> what may
> > have happened, I've yet to receive a phone call. I had my name
> and phone
> > number all over the flight package.

Maybe the addition of some dollar rewards would help? The ARSAT (Texas Tech ARC) balloon had $$$ rewards written all over the package. Never put that in use though (recovered all, even the one that had triple failure, lost the 915 MHz GPS serial link on descent, lost APRS on ascent, and no backup beacon, after the battery dislodged during a bumpy take off due to a sideward wind gust).

A side note, we lost the first balloon, when we're still clueless and didn't put the $$$ sign.

73 de Paulus N5SNN

_____
Email gratis 4 MB dengan fasilitas POP3 dan SMTP.
Kunjungi Indonesia Interactive http://www.i2.co.id.

2707. APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-10 04:33:24 UTC
From: Brek Brixius
Topic: 2707 Message: 2707

I just did my first on air test with my APRS gear.

I'm running pacterm in DOS mode on an old Toshiba Satellite Pro 430CDT. The Toshiba is connected to a Kantronics KAM all mode TNC Rev. 8.2 on COM1. I have my Radio Shack Pro 50 scanner attached as the receiving radio. I am running in DOS mode and I set pacterm to COM1 at 1200bps.

For the tracker I have tried a Tiny Trak3Plus, Garmin Etrex and Alinco DJ-180 2 meter handytalkie. I also tried an Open Tracker 1x, Garmin GPS 18 and DJ-180 combo.

I was indoors do to cold and rain and the etrex could not acquire a fix on the satellites. I had configured both trackers prior to use with my call sign. In the open tracker I added a comment line that says "This is only a test." I also configured the open tracker to report a fixed long. and lat.

Results: Both trackers transmitted at the prescribed interval. Both were received and text was displayed on the laptop screen. However, I'm not sure if what I'm looking at is right. I can read the long. and lat. I can read the comment line. The information at the start of each transmission though looks like garble - upside down question mark, heart symbol, exclamation point, etc.

Anybody got an idea what I need to tweak? I'm thinking it must be close or I wouldn't be able to read the lat. long. I hate to change something and mess it up.

Any help would be appreciated.
Thanks.
Brek KC0YOE

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2708. Re: [GPSL] APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-10 21:44:16 UTC
From: Mike Manes
Topic: 2707 Message: 2708

Hi Brek,

Sounds like you have the TT3 and OT set to send the compressed MicKey
APRS format - it's NOT human readable. You'll need APRS-SA or UIView
and a mapping app running under Windoze (or Linux?) to see those positions
graphically.

Suggest you reconfig the trackers to report in ACCII NMEA or readable
APRS to get lat/lon and altitude data in a readable format for DOS.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> I just did my first on air test with my APRS gear.
>
> I'm running pacterm in DOS mode on an old Toshiba Satellite Pro 430CDT.
> The Toshiba is connected to a Kantronics KAM all mode TNC Rev. 8.2 on
> COM1. I have my Radio Shack Pro 50 scanner attached as the receiving
> radio. I am running in DOS mode and I set pacterm to COM1 at 1200bps.
>
> For the tracker I have tried a Tiny Trak3Plus, Garmin Etrex and Alinco
> DJ-180 2 meter handytalkie. I also tried an Open Tracker 1x, Garmin GPS
> 18 and DJ-180 combo.
>
> I was indoors do to cold and rain and the etrex could not acquire a fix
> on the satellites. I had configured both trackers prior to use with my
> call sign. In the open tracker I added a comment line that says "This
> is only a test." I also configured the open tracker to report a fixed
> long. and lat.
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> Results: Both trackers transmitted at the prescribed interval. Both
> were received and text was displayed on the laptop screen. However, I'm
> not sure if what I'm looking at is right. I can read the long. and
> lat. I can read the comment line. The information at the start of each
> transmission though looks like garble - upside down question mark, heart
> symbol, exclamation point, etc.
>
> Anybody got an idea what I need to tweak? I'm thinking it must be close
> or I wouldn't be able to read the lat. long. I hate to change something
> and mess it up.
>
> Any help would be appreciated.
> Thanks.
> Brek KC0YOE
>
>

>
> ---
> Yahoo! Messenger with Voice. Make PC-to-Phone Calls
> <http://us.rd.yahoo.com/mail_us/taglines/postman1/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>
> to the US (and 30+ countries) for 2?/min or less.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2709. Re: APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-11 20:47:28 UTC
From: Al Wolfe
Topic: 2707 Message: 2709

Brek,
If you are stuck with using dos then you may wish to try APRSdos
available free at TAPR. It decodes the compressed formats very well and will
run on about any dos machine back to 8088's. Somewhat crude by Window
standards but does work.

73,
Al, K9SI

Re: APRS Test
Posted by: "Mike Manes" manes@...
Date: Tue Oct 10, 2006 3:26 pm (PDT)

Hi Brek,

Sounds like you have the TT3 and OT set to send the compressed MicKey
APRS format - it's NOT human readable. You'll need APRS-SA or UIView
and a mapping app running under Windoze (or Linux?) to see those positions
graphically.

Suggest you reconfig the trackers to report in ACCII NMEA or readable
APRS to get lat/lon and altitude data in a readable format for DOS.

73 de Mike W5VSI, EOSS

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> radio. I am running in DOS mode and I set pacterm to COM1 at 1200bps.
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> For the tracker I have tried a Tiny Trak3Plus, Garmin Etrex and Alinco
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> 18 and DJ-180 combo.
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> I was indoors do to cold and rain and the etrex could not acquire a fix
> on the satellites. I had configured both trackers prior to use with my
> call sign. In the open tracker I added a comment line that says "This
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> symbol, exclamation point, etc.
>
> Anybody got an idea what I need to tweak? I'm thinking it must be close
> or I wouldn't be able to read the lat. long. I hate to change something
> and mess it up.
>
> Any help would be appreciated.
> Thanks.
> Brek KC0YOE

2710. Re: [GPSL] Re: APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-12 03:10:18 UTC
From: Brek Brixius
Topic: 2707 Message: 2710

Well I'm not stuck with DOS. I just want to see the GPS position data in human readable text. I did look at the APRSdos you suggested. For some reason it sent my laptop into a beeping fit. I am also not using Pacterm anymore. I have switched to the UI-View 2.39 16 bit windows version.

In UI-View's terminal window with the etrex/TT3 combo this is what I get now.
01:49:20R KC0YOE>APT311,WIDE1-1,WIDE2-1 <UI Len=27>: !000.000/0000.000>000/000

I have tried nearly all of the various interface options on the etrex. The etrex was on, clear view of sky, lock on satellites, connected to the TT3 with the cable I bought when I bought the tracker. Any ideas.

On the other unit (my open tracker rig), I can get temperature and fixed position readings fine. Once I tell the OT1x to use GPS position instead of fixed and tell it not to transmit if it doesn't have a fix on the satellite, It doesn't transmit.

I bought the OT1x assembled and the Garmin 18 hockey puck with connector together. It should have been ready to use but, to me it looks like the GPS 18 is not getting power or, is not configured properly or does not work. I have no idea how to configue the GPS 18 if it needs to be, since it didn't come with software and doesn't even have an led to indicated it is alive.

I went to the local ham club and asked if there is anybody doing APRS in this area and there isn't. There is one fellow who did packet years ago but doesn't remember much. He has his equipment in storage and said he would try to set it up if he finds the time. I'm hoping he does. I'd like to do some packet chat.

Anyhow, I traveled about 8 hours one way to attend the Ak Sar Ben ARC hamfest last weekend in Omaha because they had an APRS forum on the schedule. I was hoping to figure something out there. It ended up they did not have the forum. Instead they had a Dx forum. It was still fun and worth the trip but, didn't solve my problem.

So, today I ordered the APRS book from ARRL. I'm not sure it will solve my problem either. But it can't hurt right?

If you can think of anything else I should try, let me know.
Thanks for everything.
Brek.

Al Wolfe <k9si@...> wrote:
Brek,
If you are stuck with using dos then you may wish to try APRSdos
available free at TAPR. It decodes the compressed formats very well and will
run on about any dos machine back to 8088's. Somewhat crude by Window
standards but does work.

73,
Al, K9SI

Re: APRS Test
Posted by: "Mike Manes" manes@...
Date: Tue Oct 10, 2006 3:26 pm (PDT)

Hi Brek,

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APRS format - it's NOT human readable. You'll need APRS-SA or UIView
and a mapping app running under Windoze (or Linux?) to see those positions
graphically.

Suggest you reconfig the trackers to report in ACCII NMEA or readable
APRS to get lat/lon and altitude data in a readable format for DOS.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
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> transmission though looks like garble - upside down question mark, heart
> symbol, exclamation point, etc.
>
> Anybody got an idea what I need to tweak? I'm thinking it must be close
> or I wouldn't be able to read the lat. long. I hate to change something
> and mess it up.
>
> Any help would be appreciated.
> Thanks.
> Brek KC0YOE

Get your email and more, right on the new Yahoo.com

2711. Re: [GPSL] Re: APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-12 06:39:48 UTC
From: David
Topic: 2707 Message: 2711

a couple of points here.
1. The Garmin GPS 18 can talk in either Garmin format, or NMEA format for the 18PC and 18LVC formats (Garmin sells 3 different types of GPS18). There is a tool on the garmin website that will allow you to configure which one you send. You should also let us know what ends the GPS18 has (if you have bare wires, it probably does TTL level data out instead of RS232)
2. There are freeware NMEA decoders out there, use one of them to insure your GPS is sending valid data to the system. I use VisualGPS <http://www.visualgps.net/VisualGPS/> or NMEA agent <http://www.iliketheinternet.com/gps.html>
3. If you think the Opentracker is not decoding valid GPS data you can get good support from the opentracker support forum, Scott usually replies within a day. If you can, try to record a text log file of your GPS, and send it in there. <http://groups.yahoo.com/group/opentracker/>
Hope this helps
David
KC0GFO

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2712. Re: [GPSL] Re: APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-12 23:43:21 UTC
From: Brek Brixius
Topic: 2707 Message: 2712

Sorry - the GPS18 is model GPS18 LVC, 5m. I went to Garmin.com to look for config software but, I got the following message after getting into the download area and requesting the file.

Internal Error 500:
The server hosting the URL you have requested has reported an error. It cannot retrieve your document due to server-side problems.
Please use the links or search feature on this page to continue browsing

At any rate, I am addressing the GPS18 LVC, 5m problems with the open tracker group. I ordered it from Scott and he installed the connector so, I don't know how it is wired or anything. I just got a black hockey puck in a box with no docs, software or whatnot. Since I have no experience with configuring GPS units it is a little intimidating. Kind of like an alien artifact. I'll keep after it and see if I can figure out it's secrets.

Thanks.
Brek.

David <dhuff16@...> wrote:
a couple of points here.
1. The Garmin GPS 18 can talk in either Garmin format,
or NMEA format for the 18PC and 18LVC formats (Garmin
sells 3 different types of GPS18). There is a tool on
the garmin website that will allow you to configure
which one you send. You should also let us know what
ends the GPS18 has (if you have bare wires, it
probably does TTL level data out instead of RS232)
2. There are freeware NMEA decoders out there, use one
of them to insure your GPS is sending valid data to
the system. I use VisualGPS
<http://www.visualgps.net/VisualGPS/> or NMEA agent
<http://www.iliketheinternet.com/gps.html>
3. If you think the Opentracker is not decoding valid
GPS data you can get good support from the opentracker
support forum, Scott usually replies within a day. If
you can, try to record a text log file of your GPS,
and send it in there.
<http://groups.yahoo.com/group/opentracker/>
Hope this helps
David
KC0GFO

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Yahoo! Messenger with Voice. Make PC-to-Phone Calls to the US (and 30+ countries) for 2?/min or less.

2713. getting GPS18 output // was Re: APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-16 19:26:11 UTC
From: Hank
Topic: 2707 Message: 2713

--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:

> At any rate, I am addressing the GPS18 LVC, 5m problems
> with the open tracker group.

Brek is making good progress with his GPS18 with assistance
from the <open tracker> group. He's now getting his GPS
output displayed on Hyperterm which is always a simple but
effective starting point.

Thought GPSL group would like to know the above.

Hank

2714. Re: [GPSL] getting GPS18 output // was Re: APRS Test

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-17 03:37:32 UTC
From: Brek Brixius
Topic: 2707 Message: 2714

Hank:

Things were looking up there for a while. But I think I killed the open tracker. No signs of life there now.

I think I'll take a break from it and decide if I want to try again.

Brek.

Hank <n1ltv@...> wrote:
--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:

> At any rate, I am addressing the GPS18 LVC, 5m problems
> with the open tracker group.

Brek is making good progress with his GPS18 with assistance
from the <open tracker> group. He's now getting his GPS
output displayed on Hyperterm which is always a simple but
effective starting point.

Thought GPSL group would like to know the above.

Hank

How low will we go? Check out Yahoo! Messenger?s low PC-to-Phone call rates.

2715. Re: [Balloon_Sked] Possible Mojave launch in November

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-26 00:27:19 UTC
From: Mike Manes
Topic: 2715 Message: 2715

Hi Scott,

I can't be there to lend a hand, but I do suggest that you fly a minimum of two beacons, with one being a DF beacon with at least a 50% duty cycle. APRS trackers have been known to fail in flight, especially those that have never flown before. Might also consider flying both APRS trackers as well, along with the DF beacon. You'll probably be using the DF beacon as your primary during recovery, since it's easy to drive right past an APRS beacons between packet frames.

73 de Mike W5VSI, EOSS

scott@... wrote:
> I'm working on putting together a balloon launch from the western Mojave
> desert on the weekend of the 11th or 18th of November. The plan is for the
> primary payload to be a ~ 4 pound package with a prototype Tracker2
> (including some environmental sensors), 1-watt transmitter, remote cutdown,
> and maybe one or two cameras if I can get them integrated into the payload
> in time.
>
> The backup plan, should anything fail with the primary payload, is to launch
> a < 1 lb payload with an OpenTracker and 300 mW transmitter on a 300 gram
> balloon.
>
> I'll be camping at Red Rock Canyon state park, with the exact launch site to
> be determined later. If anyone wants to join me, let me know. I could use
> chasers, and it probably wouldn't hurt to have someone there who's actually
> launched one of these things before.
>
> Scott
> N1VG
>
>
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>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

2716. Re: [GPSL] Re: [Balloon_Sked] Possible Mojave launch in November

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-26 13:53:35 UTC
From: wb8elk@aol.com
Topic: 2715 Message: 2716

Scott....you might want to contact the Los Angeles T-Hunt club....Joe Moell K0OV....they live for chases like this and have chased my California flights with great success.

- Bill WB8ELK

2717. Re: [Balloon_Sked] Possible Mojave launch in November

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-27 02:29:22 UTC
From: Mike Manes
Topic: 2715 Message: 2717

Hi Scott,

I think you'll find the DF beacon useful even in open terrain; we sure do even in the wide open spaces of E. Colo. Unless we have trackers in visual range of the descent and landing, the DF beacon is our primary tracking source for recovery. Our trackers using yagis like to hear a 30-sec DF signal with a tone well apart from 1 KHz so the Doppler DF guys won't get weird results. It takes time to get an accurate DF bearing.

Not sure why you're looking for a radar reflector. It's not required by FAR-101 for exempt flights, and the FAA rarely uses primary radar returns any more. For our heavies, we get an FAA Form 7711-1 waiver that, among other things, exempts the radar reflector. You'd be better off using that weight for a 2m DF beacon.

Denver Center has come to love getting our real-time APRS reports via findu.com. It's the next best thing to a Mode C transponder. I've cc'ed Russ KB0TVJ, who can tell you how to get your beacon reflected in VOR radial/range terms and how to tell the FAA the URL and operation tricks.

73 de Mike W5VSI, EOSS

scott@... wrote:
> I think I might throw one of my MR-6 clones in there as a backup. I'm
> trying to keep the weight and complexity down for this launch. As for
> the tracker never having flown before, I've provided quite a few for
> other people's launches, and I know the GPS 18 works well. Of course,
> I'll be using a Tracker2 prototype and not a proven OpenTracker, so
> there's more risk there. Especially if I run it in Garmin binary mode.
> That adds a lot more uncertainty, but it's the easiest way to get an
> accurate vertical speed indication.
>
> Hopefully finding the payload on the ground won't be too hard. The area
> it's projected to land in now is open and flat with some scattered
> Joshua trees.
>
> I'm also thinking of adding a DF behavior to the main tracker, so that
> if it's been on the ground for more than, say, 20 minutes it'll go into
> a longer transmission cycle (maybe 3-5 seconds per transmission) and
> turn the GPS off to conserve power.
>
> Still looking for good material for a radar reflector. Space blanket
> material seems flimsy and hard to manage. I'd like to find a source for
> the metallized paper you see used in RF shields inside cable boxes and
> such - seems like that'd be lightweight and very reflective.

>
> Scott
> N1VG
>
> ---
> *From:* Balloon_Sked@yahoogroups.com
> [mailto:Balloon_Sked@yahoogroups.com] *On Behalf Of *Mike Manes
> *Sent:* Wednesday, October 25, 2006 5:27 PM
> *To:* scott@...
> *Cc:* balloon_sked@yahoogroups.com; GPSL Balloon Reflector
> *Subject:* Re: [Balloon_Sked] Possible Mojave launch in November
>
> Hi Scott,
>
> I can't be there to lend a hand, but I do suggest that you fly a
> minimum of
> two beacons, with one being a DF beacon with at least a 50% duty cycle.
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> your primary during recovery, since it's easy to drive right past an
> APRS beacons between packet frames.
>
> 73 de Mike W5VSI, EOSS
>
> scott@... <mailto:scott%40opentrac.org> wrote:
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> > desert on the weekend of the 11th or 18th of November. The plan
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> > Scott
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> > Yahoo! Groups Links
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> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2718. FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-31 13:38:26 UTC
From: mconner1@gmail.com
Topic: 2718 Message: 2718

This should be a kick-butt unit for balloon work. Ideally it would have an alternate frequency available, but for $125 this is a great contribution to APRS.

One could take the transmitter module and apply signals from other sources, I imagine, but I don't believe the transmitter board is available by itself (yet).

73 de Mark N9XTN

==========

Announcing the Micro-Trak 300
Posted by: "Byon Garrabrant" byon@...
Mon Oct 30, 2006 2:41 pm (PST)
VHS Products and Byonics are proud to present the newest generation of integration between TinyTrack and miniature transmitter technology.

The Micro-Trak 300 marries a TinyTrack3 SMT controller and a 300 milliwatt crystal-controlled transmitter, operating on 144.390 MHz. The Micro-Trak 300 measures only 1 X 3 inches and weighs less than one ounce, including the TinyTrack SMT! The Micro-Trak 300 requires only simple final assembly, and due to the fact that it uses a sealed, metal can RF section, no tuning is required. The Micro-Trak 300 is a motherboard for the TinyTrak3 SMT, which can be attached using a socket or soldered directly to the Micro-Trak 300. This is ideal for portable and airborne applications.

Check out: http://www.byonics.com/microtrak300 for more information.

2719. Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-10-31 14:57:44 UTC
From: Hank
Topic: 2718 Message: 2719

> Ideally it would have an alternate frequency available,

I think it might be pretty easy to add an alternate
crstal that could be selected by a movable jumper, or
if there is a concern for mechanical integrity during
flight, a solder bridge.

Would have to see the circuit to be more definitive
about the above notion.

Hank

2720. Re: [GPSL] Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 15:00:01 UTC
From: mconner1@gmail.com
Topic: 2718 Message: 2720
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2721. Discovery SCIENCE Channel to air documentary about scientific ballooning

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 16:10:37 UTC
From: Luis Eduardo Pacheco
Topic: 2721 Message: 2721
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2722. Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 17:23:15 UTC
From: Hank
Topic: 2718 Message: 2722

MC> There is some discussion of this issue on the TinyTrak group,
MC> however, it appears to involved custom SMT crystals and would
MC> be MC an outright replacement rather than a switchable config.
MC> They are thinking about a production run for 144.80 MHz to
MC> support Europe APRS.

Here is one exact statement from that group:

------------begin quote from "Allen", VHS Products--------

I am leaning towards doing a small run of modules on 144.800
and see where it goes, <snip>

-------------------end quote-----------------------------

MC> I dunno if we have enough market to make a 144.34 MHz
MC> production run worthwhile.

Note that the above statement from VHS is about a
"small run."

Even if doing 144.34 is not economically attractive to *VHS*,
it doesn't preclude us from our own hack, including a
2 crystal config.

HAB is not supposed to be about appliance operating, although
of course it's nice to have stuff ready made. It's NICE, but
not a NECESSITY.

Hank

2723. Re: [GPSL] Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 22:26:06 UTC
From: Mike Manes
Topic: 2718 Message: 2723

Hmmmm ... custom xtals are pretty pricey nowadays. Wonder why Byon
moved away from the DDS used in the other guy?
73 de Mike W5VSI

mconner1@... wrote:
> There is some discussion of this issue on the TinyTrak group, however,
> it appears to involved custom SMT crystals and would be an outright
> replacement rather than a switchable config. They are thinking about a
> production run for 144.80 MHz to support Europe APRS. I dunno if we
> have enough market to make a 144.34 MHz production run worthwhile.
>
> I made a post on the list indicating ARHAB uses 144.34 and if the change
> is simple it could increase sales.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Hank <n1ltv@...>
> Date: Tuesday, October 31, 2006 9:05 am
> Subject: [GPSL] Re: FWD: Announcing the Micro-Trak 300
> To: GPSL@yahoogroups.com
>
> > > Ideally it would have an alternate frequency available,
> >
> > I think it might be pretty easy to add an alternate
> > crstal that could be selected by a movable jumper, or
> > if there is a concern for mechanical integrity during
> > flight, a solder bridge.
> >
> > Would have to see the circuit to be more definitive
> > about the above notion.
> >
> > Hank
> >
> >
> >
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2724. Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 23:03:37 UTC
From: Hank
Topic: 2718 Message: 2724

>Ideally it would have an alternate frequency available, but for
>$125 this is a great contribution to APRS.

It's now $135, or will soon be, according to the maker.

2725. Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 23:10:02 UTC
From: Hank
Topic: 2718 Message: 2725

> Wonder why Byon moved away from the DDS used in the other
> guy?

Mike,

The prior unit carried by TT which gained some notoriety for
a short time was a PLL design, and the PLL IC was discontinued.

This circuit appears to be less complex as far as external
parts are concerned, and probably isn't PLL-based, but I
couldn't be sure just by looking at the images available so
far.

I would think that the IC used will not remain a secret for
long.

Hank

2726. Re: [GPSL] Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 23:09:40 UTC
From: Zack Clobes
Topic: 2718 Message: 2726

The old PocketTracker just used a standard VHF PLL. I've noticed that
it's increasingly difficult to purchase PLL's in the lower frequency
range, at least without using lots of discretes.

Most of the PLL's are moving up into the 300-500MHz range or higher.

Zack

Mike Manes wrote:
>
> Hmmmm ... custom xtals are pretty pricey nowadays. Wonder why Byon
> moved away from the DDS used in the other guy?
> 73 de Mike W5VSI
>
> mconner1@... <mailto:mconner1%40gmail.com> wrote:
> > There is some discussion of this issue on the TinyTrak group, however,
> > it appears to involved custom SMT crystals and would be an outright
> > replacement rather than a switchable config. They are thinking about a
> > production run for 144.80 MHz to support Europe APRS. I dunno if we
> > have enough market to make a 144.34 MHz production run worthwhile.
> >
> > I made a post on the list indicating ARHAB uses 144.34 and if the
> change
> > is simple it could increase sales.
> >
> > 73 de Mark N9XTN
> >
> > ----- Original Message -----
> > From: Hank <n1ltv@... <mailto:n1ltv%40yahoo.com>>
> > Date: Tuesday, October 31, 2006 9:05 am
> > Subject: [GPSL] Re: FWD: Announcing the Micro-Trak 300
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> >
> > > > Ideally it would have an alternate frequency available,
> > >
> > > I think it might be pretty easy to add an alternate
> > > crstal that could be selected by a movable jumper, or
> > > if there is a concern for mechanical integrity during
> > > flight, a solder bridge.
> > >
> > > Would have to see the circuit to be more definitive
> > > about the above notion.
> > >
> > > Hank
> > >
> > >

> > >
> >
> >
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>

2727. Re: FWD: Announcing the Micro-Trak 300

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-01 23:19:56 UTC
From: Hank
Topic: 2718 Message: 2727

> The prior unit carried by TT

Byonics is a better description (TT is for Tiny Trak).

2728. BUNS project update

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-03 04:30:18 UTC
From: Brek Brixius
Topic: 2707 Message: 2728

Hank and Group:

I ended up sending both my trackers back to their makers. Byon discovered that something had changed from his version of the Etrex to Mine. It was an easy fix. He told me what wires to swap and where to jumper and I have a working tracker :).

Scott said the OT1x I sent back worked for him (after he fixed the voltage regulator I destroyed). He returned it to me. I'm still not able to get it to transmit unless I tell it to ignore the GPS lock. I'm not sure why. If nothing else, I figure I can use it as a beacon.

My original airframe concept was a styro-cube with coroplast armor exterior and 4 through-tubes (one in each corner). I covered the coroplast with black foamies with a space blanket ring around the middle. It looks sharp but weighs over 3 pounds without any electronics. So, I am abandoning this design which I refer to as Skytanic.

I have a new airframe in design that I am really liking. It looks like it will shake out much lighter and be easier to reconfigure as well.

I bought a couple of log tags for temperature sensors. I was thinking one for internal and one for external. Now I'm thinking a log tag for external temperature logging and the OT1x beacon will send temperature data for the interior temp.

I bought a lighter radio. An Alinco DJ-S11. It is handy for listening to the local net and I have been carrying it in my shirt pocket. It doesn't have much transmit range though. I hope changing the antenna will improve it a lot. The plan right now is to fly the DJ-S11 with a roll up j-pole.

The local HAM club asked me to give a presentation for them. I showed them videos A and C from NSTAR's 2003 season DVD. Mark was kind enough to send that to me a few months ago. The guys enjoyed it very much. I chose to show them video C because it had landing footage. I think that put a lot of folks concerns to rest. Thanks Mark for sending the Video :).

I have a ballistic nylon parachute on order from rocketman. I was not sure what size since I don't know exactly what I will be flying yet. Their suggestion was to order a larger size than I thought I needed and they have some sort of ring that slides up the lines and pulls the chute edges in. I am aiming to keep my new airframe under 4 pounds loaded. I think I ordered a 6 foot chute. I hope it will work.

I haven't been spending all my time on the balloon project. Matter of fact, I have been spending a lot of time listening to HAMs on the CQ-100 from QSONET.COM. If you haven't seen it, you should. It's a virtual HF rig. Really cool and you can try it free for 90 days.

73 everybody.
Brek.

Hank <n1ltv@...> wrote:
--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:

> At any rate, I am addressing the GPS18 LVC, 5m problems
> with the open tracker group.

Brek is making good progress with his GPS18 with assistance
from the <open tracker> group. He's now getting his GPS
output displayed on Hyperterm which is always a simple but
effective starting point.

Thought GPSL group would like to know the above.

Hank

We have the perfect Group for you. Check out the handy changes to Yahoo! Groups.

2729. Re: [GPSL] BUNS project update

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-03 20:44:28 UTC
From: Mike Manes
Topic: 2707 Message: 2729

Hi Brek,

Glad you got your APRS module working OK.

Re the payload support. The 4-tube scheme works well, especially if
you have just the one payload, and the 4 support lines provide torsional
coupling to the parachute shroud lines.

But if you plan on carrying any other stuff lower on the string, especially
if it's heavy, then a single support tube thru the center works well,
since none of the payload line tension stresses the upper payload
structure. Separating payloads also does wonders for EMC problems, like
3rd harmonic of a 70cm ATV xmtr desensing the GPS receiver front end.

I think you'll find that a 300 mW beacon signal will be plenty strong
during flight - it is written: "Line of sight is a magic thing." It
may be a bit puny once the antenna is lying on the ground after landing,
however. One of our old-time members developed a self-erecting 2m ground
plane that keeps the radiating element aloft after landing, and the
trackers LOVE it! The only payload we've used it on is the crossband
repeater, tho, since it works only if the antenna is at the bottom of
the flight string. There's a pic on www.eoss.org somewhere under the
Hardware button on the home page. Be SURE to use RG-142 coax - PVC jacketed
RG-58 embrittles in the cold.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> Hank and Group:
>
> I ended up sending both my trackers back to their makers. Byon
> discovered that something had changed from his version of the Etrex to
> Mine. It was an easy fix. He told me what wires to swap and where to
> jumper and I have a working tracker :).
>
> Scott said the OT1x I sent back worked for him (after he fixed the
> voltage regulator I destroyed). He returned it to me. I'm still not
> able to get it to transmit unless I tell it to ignore the GPS lock. I'm
> not sure why. If nothing else, I figure I can use it as a beacon.
>
> My original airframe concept was a styro-cube with coroplast armor
> exterior and 4 through-tubes (one in each corner). I covered
> the coroplast with black foamies with a space blanket ring around the
> middle. It looks sharp but weighs over 3 pounds without any
> electronics. So, I am abandoning this design which I refer to as Skytanic.
>

> I have a new airframe in design that I am really liking. It looks like
> it will shake out much lighter and be easier to reconfigure as well.
>
> I bought a couple of log tags for temperature sensors. I was thinking
> one for internal and one for external. Now I'm thinking a log tag for
> external temperature logging and the OT1x beacon will send temperature
> data for the interior temp.
>
> I bought a lighter radio. An Alinco DJ-S11. It is handy for listening
> to the local net and I have been carrying it in my shirt pocket. It
> doesn't have much transmit range though. I hope changing the antenna
> will improve it a lot. The plan right now is to fly the DJ-S11 with a
> roll up j-pole.
>
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> them videos A and C from NSTAR's 2003 season DVD. Mark was kind enough
> to send that to me a few months ago. The guys enjoyed it very much. I
> chose to show them video C because it had landing footage. I think that
> put a lot of folks concerns to rest. Thanks Mark for sending the Video :).
>
> I have a ballistic nylon parachute on order from rocketman. I was not
> sure what size since I don't know exactly what I will be flying yet.
> Their suggestion was to order a larger size than I thought I needed and
> they have some sort of ring that slides up the lines and pulls the chute
> edges in. I am aiming to keep my new airframe under 4 pounds loaded. I
> think I ordered a 6 foot chute. I hope it will work.
>
> I haven't been spending all my time on the balloon project. Matter of
> fact, I have been spending a lot of time listening to HAMs on the CQ-100
> from QSONET.COM. If you haven't seen it, you should. It's a virtual HF
> rig. Really cool and you can try it free for 90 days.
>
> 73 everybody.
> Brek.
>
>
>
>
>
>
> */Hank <n1ltv@...>/* wrote:
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Brek
> Brixius <gofly2007@...> wrote:
>
> > At any rate, I am addressing the GPS18 LVC, 5m problems
> > with the open tracker group.
>
> Brek is making good progress with his GPS18 with assistance
> from the <open tracker> group. He's now getting his GPS

> output displayed on Hyperterm which is always a simple but
> effective starting point.
>
> Thought GPSL group would like to know the above.
>
> Hank
>
>
> ---
> We have the perfect Group for you. Check out the handy changes to Yahoo!
> Groups.
> <http://pa.yahoo.com/*http://us.rd.yahoo.com/evt=41144/*http://groups.yahoo.com/local/ne
wemail.html>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2730. GPSL Update

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-06 20:34:57 UTC
From: Zack Clobes
Topic: 694 Message: 2730

The GPSL surveys finally stopped filtering in, so I compiled the list of results. The results can be found on the GPSL website (www.superlaunch.org) and it's certainly some interesting reading.

Several people were less than satisfied with the hotel accommodations, and the little bit that I saw of it, I can't entirely blame you. The Grand Prairie mailed me a questioner regarding our experience, and I'll be passing along a copy of our survey with the appropriate comments highlighted.

Overall, I think people were happy with the event, and the last two graphs support that position.

For the astute readers, you may also notice that, by request, is a GPSL hosting guide on the bottom of the GPSL website. Inside you will find 15 pages of the most graphic details about the Great Plains Super Launch ever assembled. Enjoy!

Zack Clobes, W0ZC

2731. Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-13 15:03:08 UTC
From: PAUL VERHAGE
Topic: 2569 Message: 2731

I'm planning to start maintaining a list for the Launched All States (LAS) award. My plan is to send a certificate out for every five new states. Let me know if you've launched in five or more states and I'll add you to the list. I'll take your word, but will need to know the states.

Paul

2732. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-14 00:36:06 UTC
From: Mike Manes
Topic: 2569 Message: 2732

Hi Paul,

Reckon that's a gimme for you, OM!

EOSS has launched from CO, WY, KS & IA. We'll be adding NE at GPSL
next year. Note that we've recovered from NE several times, however.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> I'm planning to start maintaining a list for the Launched All States
> (LAS) award. My plan is to send a certificate out for every five new
> states. Let me know if you've launched in five or more states and I'll
> add you to the list. I'll take your word, but will need to know the
> states.
>
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2733. Lightning arresters for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-15 03:58:28 UTC
From: Mark Conner
Topic: 2733 Message: 2733
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2734. Re: [GPSL] Lightning arresters for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-16 02:35:45 UTC
From: Stephanie Steele
Topic: 2733 Message: 2734
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2735. Another 2m TX board in the works

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 15:22:21 UTC
From: Mark Conner
Topic: 2735 Message: 2735
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2736. Re: [GPSL] Lightning arresters for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 19:07:38 UTC
From: Don KA0JLF
Topic: 2733 Message: 2736

Did Stepheny get them all?

If not all gone, I would be interested in 1 or 2.

73
Don

--- Mark Conner <mconner1@...> wrote:

> I have six brand new PolyPhaser lightning arresters
> for sale (in the OEM
> box, still sealed in plastic). I bought a package
> deal some time ago and
> these were extra. Specs can be found here:
>
>
http://www.polyphaser.com/datasheets/IS-50NX-C2-MA.pdf
>
> They have a N male connector on the antenna side and
> a N female on the
> equipment side. Usable from 125-1000 MHz and 375W
> at the low end to 50W at
> the high end. MSRP is $62, but I've seen them for
> about $45-55 each in qty
> 1.
>
> I'm pricing these at $28 each, which includes
> shipping by USPS. First
> e-mailed, first sold. Check or PayPal OK, payment
> details given when you
> e-mail me. E-mail me if you have questions.
>
> 73 de Mark N9XTN
>

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Www2.nextag.com

2737. Polyphasers all gone

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 19:24:54 UTC
From: mconner1@gmail.com
Topic: 2733 Message: 2737

Thanks to all who responded, but they're sold.

73 de Mark N9XTN

2738. GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 19:31:15 UTC
From: Roger Hammond
Topic: 2738 Message: 2738

I've been checking on conference room availability and pricing here in Grand Island for GPSL 2007 on July 7. It looks like we have basically two options. The Holiday Inn Mid-Town and the Howard Johnson Riverside Inn.
Holiday Inn's conference room rents for $175 and the Howard Johnson rents for $50. The Holiday Inn is the nicer of the two, but the customer service at Howard Johnson was by far more appealing.

Both establishments have sufficient audio/PA systems, but no video projector. They both offered to rent one for $75. Both have free wireless internet access throughout.

I'm leaning toward the Howard Johnson in an effort to keep the cost down for everyone.

If folks are interested in staying at a different hotel, other than where the conference is being held, Grand Island offers most of the basic chains all within about 15 minutes of the conference location.

A hospitality room is possible if anyone's intersted, it was a little pricey at the Holiday Inn, and the Howard Johnson said they have two adjoining guest rooms they could rent us for that purpose, I don't believe I received pricing on that.

Let me know your thoughts, I'd like to secure a room early next week.

Thanks,

73 de Roger KC0MWM

2739. Re: [GPSL] GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 19:59:37 UTC
From: PAUL VERHAGE
Topic: 2738 Message: 2739

I think the H.J. will be fine. The price is certainly nicer.

Paul

>>> "Roger Hammond" <rahammond@...> 11/17/2006 12:31:15 pm >>>
I've been checking on conference room availability and pricing here in Grand Island for GPSL 2007 on July 7. It looks like we have basically two options. The Holiday Inn Mid-Town and the Howard Johnson Riverside Inn.
Holiday Inn's conference room rents for $175 and the Howard Johnson rents for $50. The Holiday Inn is the nicer of the two, but the customer service at Howard Johnson was by far more appealing.

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Let me know your thoughts, I'd like to secure a room early next week.

Thanks,

73 de Roger KC0MWM

Yahoo! Groups Links

2740. Re: [GPSL] GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 20:36:10 UTC
From: Zack Clobes
Topic: 2738 Message: 2740

How do the prices for the hotel rooms compare? What about location and food availability?

Zack

Roger Hammond wrote:
> I've been checking on conference room availability and pricing here
> in Grand Island for GPSL 2007 on July 7. It looks like we have
> basically two options. The Holiday Inn Mid-Town and the Howard
> Johnson Riverside Inn.
> Holiday Inn's conference room rents for $175 and the Howard Johnson
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> where the conference is being held, Grand Island offers most of the
> basic chains all within about 15 minutes of the conference location.
>
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> little pricey at the Holiday Inn, and the Howard Johnson said they
> have two adjoining guest rooms they could rent us for that purpose,
> I don't believe I received pricing on that.
>
> Let me know your thoughts, I'd like to secure a room early next week.
>
> Thanks,
>
> 73 de Roger KC0MWM
>
>

2741. Re: [GPSL] GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 20:41:54 UTC
From: mconner1@gmail.com
Topic: 2738 Message: 2741
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2742. Re: [GPSL] GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 20:56:16 UTC
From: mconner1@gmail.com
Topic: 2738 Message: 2742
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2743. Re: [GPSL] GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 21:05:15 UTC
From: mconner1@gmail.com
Topic: 2738 Message: 2743
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2744. Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 21:02:16 UTC
From: Roger Hammond
Topic: 2738 Message: 2744

Room pricing:

Holiday Inn - $75-80
Howard Johnson - $69.95

Food availability...
For the lunch break during Friday's conference, both hotels have facilities to provide us lunch. They both have restaurants, but the Holiday Inn's is not open for lunch to the public. The Howard Johnson said their restaurant couldn't handle 50 of us showing up all at once, but could cater it to us in an auxiliary room. Average price for lunch at either hotel $10.

Rog KC0MWM

--- In GPSL@yahoogroups.com, Zack Clobes <zclobes@...> wrote:
>
> How do the prices for the hotel rooms compare? What about location and
> food availability?
>
> Zack
>
> Roger Hammond wrote:
> >
> > I've been checking on conference room availability and pricing here
> > in Grand Island for GPSL 2007 on July 7. It looks like we have
> > basically two options. The Holiday Inn Mid-Town and the Howard
> > Johnson Riverside Inn.
> > Holiday Inn's conference room rents for $175 and the Howard Johnson
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> > customer service at Howard Johnson was by far more appealing.
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> > have two adjoining guest rooms they could rent us for that
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> > Let me know your thoughts, I'd like to secure a room early next
week.
> >
> > Thanks,
> >
> > 73 de Roger KC0MWM
> >
> >
>

2745. Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 21:05:57 UTC
From: Roger Hammond
Topic: 2738 Message: 2745

I told both places to expect 50 - 100 folks, seated classroom style like we were in Hutchinson.

As for the projector, I was hoping to rent one locally or borrow one if I can find some kind soul.

Wood River and Aurora were the two places I was planning on for a launch location, or possible the Central City airport.

Rog KC0MWM

--- In GPSL@yahoogroups.com, mconner1@... wrote:
>
> The HJ deal sounds pretty good. What's the seating capacity?
> We might be able to get someone on the list to bring a projector and save that rental cost, but that also runs the risk of that person not being able to come at the last minute. Probably worth the extra cost to rent one, unless someone there in Grand Island can get one for free.
> I know it's early, but are you planning to use the school at Wood River for the launch site? That's only 10-15 mi from Grand Island, so it won't mean an unreasonable drive in the morning. A launch site east of Grand Island (Aurora?) will probably need to be scouted too.
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Roger Hammond <rahammond@...>
> Date: Friday, November 17, 2006 1:43 pm
> Subject: [GPSL] GPSL 2007 conference location
> To: GPSL@yahoogroups.com
>
> > I've been checking on conference room availability and pricing
> > here
> > in Grand Island for GPSL 2007 on July 7. It looks like we have
> > basically two options. The Holiday Inn Mid-Town and the Howard
> > Johnson Riverside Inn.
> > Holiday Inn's conference room rents for $175 and the Howard
> > Johnson
> > rents for $50. The Holiday Inn is the nicer of the two, but the
> > customer service at Howard Johnson was by far more appealing.
> >
> > Both establishments have sufficient audio/PA systems, but no video
> > projector. They both offered to rent one for $75. Both have free
> > wireless internet access throughout.

> >
> > I'm leaning toward the Howard Johnson in an effort to keep the
> > cost
> > down for everyone.
> >
> > If folks are interested in staying at a different hotel, other
> > than
> > where the conference is being held, Grand Island offers most of
> > the
> > basic chains all within about 15 minutes of the conference
location.
> >
> > A hospitality room is possible if anyone's intersted, it was a
> > little pricey at the Holiday Inn, and the Howard Johnson said
they
> > have two adjoining guest rooms they could rent us for that
> > purpose,
> > I don't believe I received pricing on that.
> >
> > Let me know your thoughts, I'd like to secure a room early next
week.
> >
> > Thanks,
> >
> > 73 de Roger KC0MWM
> >
> >
> >
>

2746. Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 21:10:32 UTC
From: Roger Hammond
Topic: 2738 Message: 2746

That wouldn't be bad idea, except that particular Subway has had some problems recently. I used to eat there every Friday, the wait time got to be too long and there were people there to pick up sandwiches they had ordered hours before that hadn't even been made yet. The restaurants at both hotels have good food...at least the last time I ate at either one, they were both good.

Rog KC0MWM

--- In GPSL@yahoogroups.com, mconner1@... wrote:
>
> I noticed there is a Subway not far from the hotel. What if we arranged for everyone to put in a sandwich order on arrival Friday morning that we could fax over there, then pick up the sandwiches and bring them back to the hotel and eat at the conference location? That may work better than a fleet of cars driving downtown and descending on one restaurant for lunch. Pop and chips could be supplied separately (cheaper that way).
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Zack Clobes <zclobes@...>
> Date: Friday, November 17, 2006 2:48 pm
> Subject: Re: [GPSL] GPSL 2007 conference location
> To: GPSL@yahoogroups.com
>
> > How do the prices for the hotel rooms compare? What about
> > location and
> > food availability?
> >
> > Zack
> >
>

2747. Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 21:12:36 UTC
From: Roger Hammond
Topic: 2738 Message: 2747

Yep, The Garden Cafe is still at the Howard Johnson. You sure can't beat one of their potato casseroles!

Rog KC0MWM

--- In GPSL@yahoogroups.com, mconner1@... wrote:
>
> Missed the more obvious one - there is a Garden Cafe listed at the hotel itself. However, I noticed that several of the listings for the Garden Cafe restaurants around Omaha are not up to date, so it may not still be there.
> I think their lunch menu is similar to Panera Bread - haven't eaten there for lunch in a long time. They have a fairly typical dinner menu.
> Google shows most of the restaurants are 0.5-1.0 miles north.
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: <mconner@...>
> Date: Friday, November 17, 2006 2:56 pm
> Subject: Re: [GPSL] GPSL 2007 conference location
> To: GPSL@yahoogroups.com
>
> > I noticed there is a Subway not far from the hotel. What if we
> > arranged for everyone to put in a sandwich order on arrival Friday
> > morning that we could fax over there, then pick up the sandwiches
> > and bring them back to the hotel and eat at the conference
> > location? That may work better than a fleet of cars driving
> > downtown and descending on one restaurant for lunch. Pop and
> > chips could be supplied separately (cheaper that way).
> > 73 de Mark N9XTN
> >
> > ----- Original Message -----
> > From: Zack Clobes <zclobes@...>
> > Date: Friday, November 17, 2006 2:48 pm
> > Subject: Re: [GPSL] GPSL 2007 conference location
> > To: GPSL@yahoogroups.com
> >
> > > How do the prices for the hotel rooms compare? What about
> > > location and
> > > food availability?
> > >
> > > Zack

> > >
> >
>

2748. Re: [GPSL] Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-17 21:42:26 UTC
From: Zack Clobes
Topic: 2738 Message: 2748

I'd vote for the HJ. Yahoo Travel has mixed opinions about the place,
but nothing terribly bad.

If they cater, will we be able to do a dutch ticket?

As for the projector, I'd be more than happy to bring one, but like Mark
said, that's an uncertainty that I, as an organizer, wouldn't want to
have to deal with. One place you may be able to beg/borrow/steal from
may be a local church.

Zack

Roger Hammond wrote:
>
> Room pricing:
>
> Holiday Inn - $75-80
> Howard Johnson - $69.95
>
> Food availability...
> For the lunch break during Friday's conference, both hotels have
> facilities to provide us lunch. They both have restaurants, but the
> Holiday Inn's is not open for lunch to the public. The Howard
> Johnson said their restaurant couldn't handle 50 of us showing up
> all at once, but could cater it to us in an auxiliary room.
> Average price for lunch at either hotel $10.
>
> Rog KC0MWM
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Zack
> Clobes <zclobes@...> wrote:
> >
> > How do the prices for the hotel rooms compare? What about
> location and
> > food availability?
> >
> > Zack
> >
> > Roger Hammond wrote:
> > >
> > > I've been checking on conference room availability and pricing
> here
> > > in Grand Island for GPSL 2007 on July 7. It looks like we have
> > > basically two options. The Holiday Inn Mid-Town and the Howard
> > > Johnson Riverside Inn.
> > > Holiday Inn's conference room rents for $175 and the Howard

> Johnson
> > > rents for $50. The Holiday Inn is the nicer of the two, but the
> > > customer service at Howard Johnson was by far more appealing.
> > >
> > > Both establishments have sufficient audio/PA systems, but no
> video
> > > projector. They both offered to rent one for $75. Both have free
> > > wireless internet access throughout.
> > >
> > > I'm leaning toward the Howard Johnson in an effort to keep the
> cost
> > > down for everyone.
> > >
> > > If folks are interested in staying at a different hotel, other
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> > > where the conference is being held, Grand Island offers most of
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> > > basic chains all within about 15 minutes of the conference
> location.
> > >
> > > A hospitality room is possible if anyone's intersted, it was a
> > > little pricey at the Holiday Inn, and the Howard Johnson said
> they
> > > have two adjoining guest rooms they could rent us for that
> purpose,
> > > I don't believe I received pricing on that.
> > >
> > > Let me know your thoughts, I'd like to secure a room early next
> week.
> > >
> > > Thanks,
> > >
> > > 73 de Roger KC0MWM
> > >
> > >
> >
>
>

2749. RE: [GPSL] Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 00:06:55 UTC
From: Roger Hammond
Topic: 2738 Message: 2749

I'll find out about the dutch ticket. There are a couple of options for both places as far as the catered meal goes. You can order off of a an abridged menu, or choose a small buffet style.
My vote for food would have to go to the Howard Johnson's Garden Cafe.

I was the main A/V guy at our church for six years, unfortunately they don't have any portable units. I'll either rent one locally, or twist someone's arm here in town, so nobody has to bring one from afar.

Rog KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Friday, November 17, 2006 3:42 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: GPSL 2007 conference location

I'd vote for the HJ. Yahoo Travel has mixed opinions about the place, but nothing terribly bad.

If they cater, will we be able to do a dutch ticket?

As for the projector, I'd be more than happy to bring one, but like Mark said, that's an uncertainty that I, as an organizer, wouldn't want to have to deal with. One place you may be able to beg/borrow/steal from may be a local church.

Zack

Roger Hammond wrote:

Room pricing:

Holiday Inn - $75-80
Howard Johnson - $69.95

Food availability...
For the lunch break during Friday's conference, both hotels have facilities to provide us lunch. They both have restaurants, but the Holiday Inn's is not open for lunch to the public. The Howard Johnson said their restaurant couldn't handle 50 of us showing up all at once, but could cater it to us in an auxiliary room.
Average price for lunch at either hotel $10.

Rog KC0MWM

--- In GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com, Zack Clobes
<zclobes@...> wrote:
>
> How do the prices for the hotel rooms compare? What about
location and
> food availability?
>
> Zack
>
> Roger Hammond wrote:
> >
> > I've been checking on conference room availability and pricing
here
> > in Grand Island for GPSL 2007 on July 7. It looks like we have
> > basically two options. The Holiday Inn Mid-Town and the Howard
> > Johnson Riverside Inn.
> > Holiday Inn's conference room rents for $175 and the Howard
Johnson
> > rents for $50. The Holiday Inn is the nicer of the two, but the
> > customer service at Howard Johnson was by far more appealing.
> >
> > Both establishments have sufficient audio/PA systems, but no
video
> > projector. They both offered to rent one for $75. Both have free
> > wireless internet access throughout.
> >
> > I'm leaning toward the Howard Johnson in an effort to keep the
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> > down for everyone.
> >
> > If folks are interested in staying at a different hotel, other
than
> > where the conference is being held, Grand Island offers most of
the
> > basic chains all within about 15 minutes of the conference
location.
> >
> > A hospitality room is possible if anyone's intersted, it was a
> > little pricey at the Holiday Inn, and the Howard Johnson said
they
> > have two adjoining guest rooms they could rent us for that
purpose,
> > I don't believe I received pricing on that.
> >
> > Let me know your thoughts, I'd like to secure a room early next
week.
> >
> > Thanks,
> >
> > 73 de Roger KC0MWM
> >

> >
>

2750. CQ VHF article on GPSL 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 04:26:14 UTC
From: Mark Conner
Topic: 2750 Message: 2750
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2751. Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 14:19:25 UTC
From: Hank
Topic: 2738 Message: 2751

> I'll either rent one locally,

> Rog KC0MWM

What kind of outfits rent these? I didn't know they
could be rented, so this could be helpful for some events
I do.

Hank

2752. RE: [GPSL] Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 14:34:48 UTC
From: Roger Hammond
Topic: 2738 Message: 2752

Hi Hank,

I believe one of the computer stores here in town rents them.

73 de Roger KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Hank
Sent: Saturday, November 18, 2006 8:19 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: GPSL 2007 conference location

> I'll either rent one locally,

> Rog KC0MWM

What kind of outfits rent these? I didn't know they
could be rented, so this could be helpful for some events
I do.

Hank

2753. LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 15:30:22 UTC
From: Hank
Topic: 2738 Message: 2753

Roger and I are discussing this offlist, but just in case it's of interest, there are a ton of places renting, some nationwide (but big cities only, although sone deliver for an added fee), that show up on Google.

The trouble is that typical of all rental equipment, it's fairly expensive. Looks like an ordinary brightness projector will typically cost $100/day.

That means it isn't feasible for my group of about 12 people.

I'll continue to pursue the idea of an NTSC video output PC card driving a TV set.

Hank

2754. Re: [GPSL] Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 21:50:57 UTC
From: Troy Campbell
Topic: 2738 Message: 2754

Roger,

I've got a projector and will be happy to bring it. While I have every intention of being their, "Things Happen" and it would be wise to have a backup.

73 de Troy, KC0MIC

----- Original Message ----
From: Roger Hammond <rahammond@...>
To: GPSL@yahoogroups.com
Sent: Saturday, November 18, 2006 8:34:48 AM
Subject: RE: [GPSL] Re: GPSL 2007 conference location

Hi
Hank,

I
believe one of the computer stores here in town rents them.

73 de
Roger KCØMWM

-----Original Message-----
From:
GPSL@yahoogroups. com [mailto:GPSL@ yahoogroups. com] On Behalf Of
Hank
Sent: Saturday, November 18, 2006 8:19 AM
To:
GPSL@yahoogroups. com
Subject: [GPSL] Re: GPSL 2007 conference
location

> I'll either rent one locally,

> Rog KC0MWM

What kind
of outfits rent these? I didn't know they
could be rented, so this could be
helpful for some events
I do.

Hank

<!--

#ygrp-mlmsg {font-size:13px;font-family:arial,helvetica,clean,sans-serif;}
#ygrp-mlmsg table {font-size:inherit;font:100%;}

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#ygrp-mlmsg pre, code {font:115% monospace;}
#ygrp-mlmsg * {line-height:1.22em;}
#ygrp-text{
font-family:Georgia;
}
#ygrp-text p{
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}
#ygrp-tpmsgs{
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clear:both;
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font-family:Verdana;
font-size:77%;
margin:0;
}
#ygrp-vitnav a{
padding:0 1px;
}
#ygrp-actbar{
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margin:25px 0;
white-space:nowrap;
color:#666;
text-align:right;
}
#ygrp-actbar .left{
float:left;
white-space:nowrap;
}
.bld{font-weight:bold;}
#ygrp-grft{
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font-size:77%;
padding:15px 0;
}
#ygrp-ft{
font-family:verdana;
font-size:77%;
border-top:1px solid #666;
padding:5px 0;
}
#ygrp-mlmsg #logo{
padding-bottom:10px;
}
```

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margin-bottom:20px;
padding:2px 0 8px 8px;
}
#ygrp-vital #vithd{
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font-family:Verdana;
font-weight:bold;
color:#333;
text-transform:uppercase;
}
#ygrp-vital ul{
padding:0;
margin:2px 0;
}
#ygrp-vital ul li{
list-style-type:none;
clear:both;
border:1px solid #e0ecee;
}
#ygrp-vital ul li .ct{
font-weight:bold;
color:#ff7900;
float:right;
width:2em;
text-align:right;
padding-right:.5em;
}
#ygrp-vital ul li .cat{
font-weight:bold;
}
#ygrp-vital a {
text-decoration:none;
}

#ygrp-vital a:hover{
text-decoration:underline;
}

#ygrp-sponsor #hd{
color:#999;
font-size:77%;
}
#ygrp-sponsor #ov{
padding:6px 13px;
background-color:#e0ecee;
margin-bottom:20px;
}
#ygrp-sponsor #ov ul{
padding:0 0 0 8px;
margin:0;
```

```
}
#ygrp-sponsor #ov li{
list-style-type:square;
padding:6px 0;
font-size:77%;
}
#ygrp-sponsor #ov li a{
text-decoration:none;
font-size:130%;
}
#ygrp-sponsor #nc {
background-color:#eee;
margin-bottom:20px;
padding:0 8px;
}
#ygrp-sponsor .ad{
padding:8px 0;
}
#ygrp-sponsor .ad #hd1{
font-family:Arial;
font-weight:bold;
color:#628c2a;
font-size:100%;
line-height:122%;
}
#ygrp-sponsor .ad a{
text-decoration:none;
}
#ygrp-sponsor .ad a:hover{
text-decoration:underline;
}
#ygrp-sponsor .ad p{
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}
o {font-size:0;}
.MsoNormal {
margin:0 0 0 0;
}
#ygrp-text tt{
font-size:120%;
}
blockquote{margin:0 0 0 4px;}
.replbq {margin:4;}
-->

_____________________________________________________________________________
Do you Yahoo!?
Everyone is raving about the all-new Yahoo! Mail beta.
http://new.mail.yahoo.com
```

2755. RE: [GPSL] LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 22:00:42 UTC
From: KC0UUO@comcast.net
Topic: 2738 Message: 2755

Althought I'm not sure I can attend this year I'm sure some one from EOSS will be there... I would be willing to get a 2.5K projector or better for the confrence this size should be sufficient. It's what I do for a living so there will be no cost. Not sure what size screen we would like to go with but if we have a nice white wall we could use that!

Give me a shout to discuss! 303-359-5660

Rob Wright, KCØUUO
Englewood, CO

This message has been sent from a mobile device running Microsoft Pocket PC

-----Original Message-----
From: "Hank" <n1ltv@...>
To: GPSL@yahoogroups.com
Sent: 11/18/06 08:30
Subject: [GPSL] LCD projector rental

Roger and I are discussing this offlist, but just in case
it's of interest, there are a ton of places renting, some
nationwide (but big cities only, although sone deliver for
an added fee), that show up on Google.

The trouble is that typical of all rental equipment, it's
fairly expensive. Looks like an ordinary brightness
projector will typically cost $100/day.

That means it isn't feasible for my group of about 12 people.

I'll continue to pursue the idea of an NTSC video output
PC card driving a TV set.

Hank

2756. Cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-18 21:56:15 UTC
From: Troy Campbell
Topic: 2756 Message: 2756

All,

Aiptek has a clearance on the "pencams" that I've see a lot of people use for balloons, kites, R/C, etc. for $4.00 . There's a reasonable looking "regular" digital camera that can take a 512mb SD card for $19 and a DVR for $39.

http://www.2fidelity.com/

73, de Troy, KC0MIC

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Don't quit your job - take classes online
www.Classesusa.com

2757. RE: [GPSL] LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-19 01:27:29 UTC
From: Roger Hammond
Topic: 2738 Message: 2757

Rob,

Hold that thought. Troy has graciously offered to bring one with him.
I'll see if someone here in town could be a backup, just in case.
I'll let you know in advance if we need it.

Rog KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of KC0UUO@...
Sent: Saturday, November 18, 2006 4:01 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] LCD projector rental

Althought I'm not sure I can attend this year I'm sure some one from EOSS will be there...
I would be willing to get a 2.5K projector or better for the confrence this size should be sufficient. It's what I do for a living so there will be no cost. Not sure what size screen we would like to go with but if we have a nice white wall we could use that!

Give me a shout to discuss! 303-359-5660

Rob Wright, KCØUUO
Englewood, CO

This message has been sent from a mobile device running Microsoft Pocket PC

-----Original Message-----
From: "Hank" <n1ltv@yahoo. <mailto:n1ltv%40yahoo.com> com>
To: GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com
Sent: 11/18/06 08:30
Subject: [GPSL] LCD projector rental

Roger and I are discussing this offlist, but just in case
it's of interest, there are a ton of places renting, some
nationwide (but big cities only, although sone deliver for
an added fee), that show up on Google.

The trouble is that typical of all rental equipment, it's
fairly expensive. Looks like an ordinary brightness
projector will typically cost $100/day.

That means it isn't feasible for my group of about 12 people.

I'll continue to pursue the idea of an NTSC video output
PC card driving a TV set.

Hank

2758. RE: [GPSL] Re: GPSL 2007 conference location

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-19 01:26:15 UTC
From: Roger Hammond
Topic: 2738 Message: 2758

Troy,

Thanks for the offer, I accept. I'll see what I can do on this end for a backup.

Rog KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Saturday, November 18, 2006 3:51 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Re: GPSL 2007 conference location

Roger,

I've got a projector and will be happy to bring it. While I have every intention of being their, "Things Happen" and it would be wise to have a backup.

73 de Troy, KC0MIC

----- Original Message ----
From: Roger Hammond <rahammond@...>
To: GPSL@yahoogroups.com
Sent: Saturday, November 18, 2006 8:34:48 AM
Subject: RE: [GPSL] Re: GPSL 2007 conference location

Hi Hank,

I believe one of the computer stores here in town rents them.

73 de Roger KCØMWM

-----Original Message-----
From: GPSL@yahoogroups. com [mailto:GPSL@ yahoogroups. com] On Behalf Of Hank
Sent: Saturday, November 18, 2006 8:19 AM
To: GPSL@yahoogroups. com
Subject: [GPSL] Re: GPSL 2007 conference location

> I'll either rent one locally,

> Rog KC0MWM

What kind of outfits rent these? I didn't know they
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I do.

Hank

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<http://www.lowermybills.com/lre/index.jsp?sourceid=lmb-9133-16415&moid=4673
> new house payment

2759. Re: [GPSL] LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-19 05:46:01 UTC
From: Mike Manes
Topic: 2738 Message: 2759

Hi Roger,

Note that Rob's offered a 2500 Lumen projector - good for a large
presentation room like GPSL 06 on a white wall. Garden variety
projectors aren't bright enough.

If you need Rob's projector, I'll make sure it gets to the meeting.

73 de Mike W5VSI, EOSS

Roger Hammond wrote:
> Rob,
>
> Hold that thought. Troy has graciously offered to bring one with him.
> I'll see if someone here in town could be a backup, just in case.
> I'll let you know in advance if we need it.
>
> Rog KC0MWM
>
>
> -----Original Message-----
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> Behalf Of *KC0UUO@...
> *Sent:* Saturday, November 18, 2006 4:01 PM
> *To:* GPSL@yahoogroups.com
> *Subject:* RE: [GPSL] LCD projector rental
>
> Althought I'm not sure I can attend this year I'm sure some one from
> EOSS will be there...
> I would be willing to get a 2.5K projector or better for the
> confrence this size should be sufficient. It's what I do for a
> living so there will be no cost. Not sure what size screen we would
> like to go with but if we have a nice white wall we could use that!
>
> Give me a shout to discuss! 303-359-5660
>
>
> Rob Wright, KCØUUO
> Englewood, CO
>
> This message has been sent from a mobile device running Microsoft
> Pocket PC
>
> -----Original Message-----
> From: "Hank" <n1ltv@... <mailto:n1ltv%40yahoo.com>>
> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>

> Sent: 11/18/06 08:30
> Subject: [GPSL] LCD projector rental
>
> Roger and I are discussing this offlist, but just in case
> it's of interest, there are a ton of places renting, some
> nationwide (but big cities only, although sone deliver for
> an added fee), that show up on Google.
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> fairly expensive. Looks like an ordinary brightness
> projector will typically cost $100/day.
>
> That means it isn't feasible for my group of about 12 people.
>
> I'll continue to pursue the idea of an NTSC video output
> PC card driving a TV set.
>
> Hank
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2760. Re: [GPSL] LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-19 13:10:01 UTC
From: Troy Campbell
Topic: 2738 Message: 2760

Roger,

It would be a good idea for Mike to bring one too. That way you know at least one will work.

Troy

----- Original Message ----
From: Mike Manes <manes@...>
To: GPSL@yahoogroups.com
Cc: Robert Wright <kc0uuo@...>
Sent: Saturday, November 18, 2006 11:46:01 PM
Subject: Re: [GPSL] LCD projector rental

Hi Roger,

Note that Rob's offered a 2500 Lumen projector - good for a large

presentation room like GPSL 06 on a white wall. Garden variety

projectors aren't bright enough.

If you need Rob's projector, I'll make sure it gets to the meeting.

73 de Mike W5VSI, EOSS

Roger Hammond wrote:

> Rob,

>

> Hold that thought. Troy has graciously offered to bring one with him.

> I'll see if someone here in town could be a backup, just in case.

> I'll let you know in advance if we need it.

>

> Rog KC0MWM

>

>

> -----Original Message-----

> *From:* GPSL@yahoogroups. com [mailto:GPSL@yahoogroups. com] *On

> Behalf Of *KC0UUO@comcast. net

> *Sent:* Saturday, November 18, 2006 4:01 PM

> *To:* GPSL@yahoogroups. com

> *Subject:* RE: [GPSL] LCD projector rental

>

> Althought I'm not sure I can attend this year I'm sure some one from

> EOSS will be there...

> I would be willing to get a 2.5K projector or better for the

> confrence this size should be sufficient. It's what I do for a

> living so there will be no cost. Not sure what size screen we would

> like to go with but if we have a nice white wall we could use that!

>

> Give me a shout to discuss! 303-359-5660

>

>

> Rob Wright, KCØUUO

> Englewood, CO

>

> This message has been sent from a mobile device running Microsoft

> Pocket PC

>

> -----Original Message-----

> From: "Hank" <n1ltv@yahoo. com <mailto:n1ltv% 40yahoo.com> >

> To: GPSL@yahoogroups. com <mailto:GPSL% 40yahoogroups. com>

> Sent: 11/18/06 08:30

> Subject: [GPSL] LCD projector rental

>

> Roger and I are discussing this offlist, but just in case

> it's of interest, there are a ton of places renting, some

> nationwide (but big cities only, although sone deliver for

> an added fee), that show up on Google.

>

> The trouble is that typical of all rental equipment, it's

> fairly expensive. Looks like an ordinary brightness

> projector will typically cost $100/day.

>

> That means it isn't feasible for my group of about 12 people.

>

> I'll continue to pursue the idea of an NTSC video output

> PC card driving a TV set.

>

> Hank

>

>

--

Mike Manes manes@attglobal. net Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

<!--

#ygrp-mlmsg {font-size:13px;font-family:arial,helvetica,clean,sans-serif;}
#ygrp-mlmsg table {font-size:inherit;font:100%;}
#ygrp-mlmsg select, input, textarea {font:99% arial,helvetica,clean,sans-serif;}
#ygrp-mlmsg pre, code {font:115% monospace;}
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color:#333;
text-transform:uppercase;
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text-align:right;
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#ygrp-vital a:hover{
text-decoration:underline;
}

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font-size:77%;
}
#ygrp-sponsor #ov{
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background-color:#e0ecee;
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}
#ygrp-sponsor #ov ul{
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margin:0;
}
#ygrp-sponsor #ov li{
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padding:6px 0;
font-size:77%;
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#ygrp-sponsor #ov li a{
text-decoration:none;
font-size:130%;
}
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background-color:#eee;
margin-bottom:20px;
padding:0 8px;
}
#ygrp-sponsor .ad{
```

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padding:8px 0;
}
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font-weight:bold;
color:#628c2a;
font-size:100%;
line-height:122%;
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#ygrp-sponsor .ad a{
text-decoration:none;
}
#ygrp-sponsor .ad a:hover{
text-decoration:underline;
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#ygrp-sponsor .ad p{
margin:0;
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.MsoNormal {
margin:0 0 0 0;
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#ygrp-text tt{
font-size:120%;
}
blockquote{margin:0 0 0 4px;}
.replbq {margin:4;}
-->
```

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Mortgage rates near 39yr lows.
$310k for $999/mo. Calculate new payment!
www.LowerMyBills.com/lre

2761. RE: [GPSL] LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-19 14:37:37 UTC
From: Roger Hammond
Topic: 2738 Message: 2761

Mike,

Sounds good, between you and Troy we should have a projector use.
Thanks guys!

Rog KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
Manes
Sent: Saturday, November 18, 2006 11:46 PM
To: GPSL@yahoogroups.com
Cc: Robert Wright
Subject: Re: [GPSL] LCD projector rental

Hi Roger,

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presentation room like GPSL 06 on a white wall. Garden variety
projectors aren't bright enough.

If you need Rob's projector, I'll make sure it gets to the meeting.

73 de Mike W5VSI, EOSS

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> I'll see if someone here in town could be a backup, just in case.
> I'll let you know in advance if we need it.
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>
>
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> *From:* GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com
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> Behalf Of *KC0UUO@comcast. <mailto:%2AKC0UUO%40comcast.net> net
> *Sent:* Saturday, November 18, 2006 4:01 PM
> *To:* GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com
> *Subject:* RE: [GPSL] LCD projector rental
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> Althought I'm not sure I can attend this year I'm sure some one from
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> Give me a shout to discuss! 303-359-5660
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> Rob Wright, KCØUUO
> Englewood, CO
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> This message has been sent from a mobile device running Microsoft
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> From: "Hank" <n1ltv@yahoo. <mailto:n1ltv%40yahoo.com> com
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> To: GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com
<mailto:GPSL%40yahoogroups.com>
> Sent: 11/18/06 08:30
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> I'll continue to pursue the idea of an NTSC video output
> PC card driving a TV set.
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> Hank
>
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--
Mike Manes manes@attglobal. <mailto:manes%40attglobal.net> net Tel:
303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2762. Re: [GPSL] LCD projector rental

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-20 14:34:45 UTC
From: Mike Manes
Topic: 2738 Message: 2762

Hi Roger,

Count on it. And you can put EOSS down in favor of the HoJo's. Only concern heard was whether the inhouse WiFi would be fast enough to let Rick N0KKZ run trajectory forecasts quickly.

BTW, would HoJo waive the conference room charge if enough GPSL members take rooms there? For now, I think you can expect 8 to 10 EOSS members to attend GPSL '07.

73 de Mike W5VSI
Prez EOSS

Roger Hammond wrote:
> Mike,
>
> Sounds good, between you and Troy we should have a projector use.
> Thanks guys!
>
> Rog KC0MWM
>
>
>
>
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> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> Behalf Of *Mike Manes
> *Sent:* Saturday, November 18, 2006 11:46 PM
> *To:* GPSL@...m
> *Cc:* Robert Wright
> *Subject:* Re: [GPSL] LCD projector rental
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> > Rog KC0MWM
> >
> >
> > -----Original Message-----
> > *From:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] *On
> > Behalf Of *KC0UUO@comcast.net <mailto:%2AKC0UUO%40comcast.net>
> > *Sent:* Saturday, November 18, 2006 4:01 PM
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> > *Subject:* RE: [GPSL] LCD projector rental
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> > Althought I'm not sure I can attend this year I'm sure some one from
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> > Give me a shout to discuss! 303-359-5660
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> > Rob Wright, KCØUUO
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> >
> > Hank
> >
> >
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2763. Minimum-distance flight

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-21 22:21:34 UTC
From: mconner1@gmail.com
Topic: 2763 Message: 2763
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2764. Camera selection and interface

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-24 04:27:12 UTC
From: Hap Griffin
Topic: 2764 Message: 2764

I'm working towards launching my first balloon and I'm looking for any suggestions on digital camera selection and how you guys are interfacing to the shutter button. Any particular camera that is easier than the rest to trigger externally? Any to avoid?

Thanks in advance,

Hap Griffin
WZ4O

Astrophotography at www.machunter.org/hapspics.html

2765. Video Camera sale...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-24 13:33:10 UTC
From: Roger Hammond
Topic: 2765 Message: 2765

Walgreens has the Aiptek video cameras on sale, for anyone interested.

http://www.walgreens.com/store/product.jsp?CATID=100380
<http://www.walgreens.com/store/product.jsp?CATID=100380&navAction=jump&navC
ount=1&id=prod1464126> &navAction=jump&navCount=1&id=prod1464126

Rog KCØMWM
www.cnnsp.org

2766. "Surfin'" plug for EOSS's web site

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-25 12:33:31 UTC
From: Mike Manes
Topic: 2766 Message: 2766

Hi Stan,

Thanks for the plug for www.eoss.org on:

www.arrl.org/news/features/2006/11/24/1/?nc=1

High altitude ballooning using ham radio has burgeoned over the last
10 years or so, but QST hasn't given it much press. The Great Plains
Super Launch has been the equivalent of Dayton for the growing numbers
of balloon groups, and last year, we had some 10 balloons aloft simultaneously
out of a site near Hutchinson KS. Next summer, we're looking forward to
an even larger launch out of Grand Island NE.

Check http://www.custom-ds.com/gpsl/ for details.

73 de Mike W5VSI
Prez EOSS
100% recovery of 113 balloon payload strings over 16 years.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2767. Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 14:35:16 UTC
From: PAUL VERHAGE
Topic: 2767 Message: 2767

Hey, I□m having a problem with my GPS receiver and I wonder if anyone has seen this before. I□m experimenting with using a Garmin Etrex, so I took it for a run and watched for the speed and distance to change as I exercised. I don□t run the fastest, but I expect to see it display my current speed and distance traveled with reasonable accuracy. But no matter how fast I ran, it kept displaying a speed of zero miles per hour. And no matter how long I ran, it displayed a distance traveled of zero miles. I tried shutting it down and powering it back up a couple of times and even replaced the batteries once. Still the display won□t show what I thought were reasonable values for my speed and distance.

I□m inclined to think it□s not getting a good GPS fix. So I□m going to take the gym□s treadmill outside next week for one more test before sending the Etrex back to Garmin for repairs.

Paul

2768. Re: [GPSL] Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 15:28:11 UTC
From: mconner1@gmail.com
Topic: 2767 Message: 2768
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2769. RE: [GPSL] Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 15:57:27 UTC
From: Rick von Glahn
Topic: 2767 Message: 2769

Paul,

You can relax and put your mind at ease. There is nothing wrong with the Etrex. This is a known problem with treadmills in general.

I'm no physicist but from a layman's point of view, when you step on a treadmill you are essentially entering a non-contiguous realm of space-time that isolates you, any objects you are carrying and the treadmill itself from the environment of the gym. Any action you take within that isolated space-time environment will have no detectable impact on the gym. Even common everyday phenomena such as Doppler shifting are automatically nullified by the gap between these "alternate realities". This can be easily demonstrated by singing a song. While you would expect the pitch of your voice to shift to a lower register from the perspective of a fellow gymnauts when he walks from in front of you to behind your rapidly moving body, in fact nothing of the sort happens.

So, moving the treadmill outside will have no appreciable impact on the readouts of the ETrex. It will still mistakenly think you are not moving anywhere at zero speed.

Don't feel bad, I had a similar problem a few years back. My car's speedometer/odometer is connected to my vehicle's front wheels. I took the car in for a pollution control inspection where they placed the car on a dynamometer. The car's rear wheels rapidly sped up and the car was soon being reported by the inspection station's test equipment as moving along at 50 MPH. But, my speedometer was still reading zero. I fired up my eTrex and, believe it or not, it reported the same as your's ... no speed or movement. I asked the technicians at the inspection station what the heck was going on and this is where I first learned of this decoupling phenomena.

As one famous scientist once said, "The Universe is not only queerer than we imagine; it is queerer than we CAN imagine."

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of PAUL VERHAGE
> Sent: Monday, November 27, 2006 7:35 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Etrex Trouble?
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> Hey, I☐m having a problem with my GPS receiver and I wonder
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> one more test before sending the Etrex back to Garmin for
> repairs.
>
> Paul
>
>
>
>
> Yahoo! Groups Links
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2770. Re: [GPSL] Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 16:12:23 UTC
From: John C Nordlie
Topic: 2767 Message: 2770

Hi Paul.

We had a problem with an eTrex last year that we flew on a balloon, but of course that was just spitting NMEA sentences to a TT3. One thing you should check is the firmware version. Garmin updated the firmware for the eTrex to fix a number of bugs, but I can't recall which off the top of my head. All you need is a serial cable and the firmware and loader programs off Garmin's website.

Hope this helps.

-JCN

On Mon, 27 Nov 2006, PAUL VERHAGE wrote:

> Hey, I□m having a problem with my GPS receiver and I wonder if anyone has seen this before. I□m experimenting with using a Garmin Etrex, so I took it for a run and watched for the speed and distance to change as I exercised. I don□t run the fastest, but I expect to see it display my current speed and distance traveled with reasonable accuracy. But no matter how fast I ran, it kept displaying a speed of zero miles per hour. And no matter how long I ran, it displayed a distance traveled of zero miles. I tried shutting it down and powering it back up a couple of times and even replaced the batteries once. Still the display won□t show what I thought were reasonable values for my speed and distance.
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> Paul
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> Yahoo! Groups Links
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>

2771. RE: [GPSL] Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 16:17:34 UTC
From: Marty Griffin
Topic: 2767 Message: 2771

Priceless!

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Rick von Glahn
Sent: Monday, November 27, 2006 8:57 AM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Etrex Trouble?

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>
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> Yahoo! Groups Links
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Yahoo! Groups Links

2772. Near Space Movie on YouTube

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 22:08:33 UTC
From: PAUL VERHAGE
Topic: 2772 Message: 2772

Here's my latest near space movie. This was a launch at Oregon Institute of Technology three weeks ago. We attempted to capture sunrise at 85,000 feet but ended up launching late.

http://www.youtube.com/watch?v=9EZ0o445xKE

Paul

2773. Re: [GPSL] Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-27 22:02:50 UTC
From: Mike Manes
Topic: 2767 Message: 2773

Hi Paul,

Try duct-taping the Etrex to the moving belt on the treadmill.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Hey, I'm having a problem with my GPS receiver and I wonder if anyone has seen this before. I'm experimenting with using a Garmin Etrex, so I took it for a run and watched for the speed and distance to change as I exercised. I don't run the fastest, but I expect to see it display my current speed and distance traveled with reasonable accuracy. But no matter how fast I ran, it kept displaying a speed of zero miles per hour. And no matter how long I ran, it displayed a distance traveled of zero miles. I tried shutting it down and powering it back up a couple of times and even replaced the batteries once. Still the display won't show what I thought were reasonable values for my speed and distance.
>
> I'm inclined to think it's not getting a good GPS fix. So I'm going to take the gym's treadmill outside next week for one more test before sending the Etrex back to Garmin for repairs.
>
> Paul
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2774. RE: [GPSL] Etrex Trouble?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-11-28 00:01:02 UTC
From: Marty Griffin
Topic: 2767 Message: 2774

Hi Paul,
Clearly the eTrex cannot sense motion when you are moving in the same direction as the treadmill. Try running backwards. Then divide the results by two because you will be going twice as fast.
- Marty

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Monday, November 27, 2006 7:35 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Etrex Trouble?

Hey, I'm having a problem with my GPS receiver and I wonder if anyone has seen this before. I'm experimenting with using a Garmin Etrex, so I took it for a run and watched for the speed and distance to change as I exercised. I don't run the fastest, but I expect to see it display my current speed and distance traveled with reasonable accuracy. But no matter how fast I ran, it kept displaying a speed of zero miles per hour. And no matter how long I ran, it displayed a distance traveled of zero miles. I tried shutting it down and powering it back up a couple of times and even replaced the batteries once. Still the display won't show what I thought were reasonable values for my speed and distance.

I'm inclined to think it's not getting a good GPS fix. So I'm going to take the gym's treadmill outside next week for one more test before sending the Etrex back to Garmin for repairs.

Paul

Yahoo! Groups Links

2775. [Fwd: [KNSP] balloon launch]

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-01 02:22:48 UTC
From: Mike Manes
Topic: 2775 Message: 2775

First launch from Salina in a long time! Good luck to Pete, one
of the ARHAB pioneers.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [KNSP] balloon launch
Date: Thu, 30 Nov 2006 09:30:35 -0800 (PST)
From: pete sias <petesias@...>
To: balloon <knsp@yahoogroups.com>

Hi to the group,

The Kansas Wesleyan University physics club will be
launching a balloon flight for this Saturday at ~8 am
from Salina, KS EM18. This is a simple first time
flight and will carry a camcorder recording the
flight.
Gps on 144.34 @ 1 watt transmitting every 10 seconds.
1500 gram balloon. GGA & RMC lines transmitted.

2 school vans with students and tracking equipment
will be following.

Like Mark, we are expecting a NE track with fast jet
stream winds.

Listen in, reports will be appreciated.

Pete NØOY (SSOK group)

Want to start your own business?
Learn how on Yahoo! Small Business.
http://smallbusiness.yahoo.com/r-index

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP

Yahoo! Groups Links

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2776. Has anyone heard anything out of Pete's balloon?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-02 17:18:11 UTC
From: Zack Clobes
Topic: 2776 Message: 2776

[Body unavailable in the source archive]

2777. Re: [KNSP] Has anyone heard anything out of Pete's balloon?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-02 18:09:46 UTC
From: Ralph Wallio, W0RPK
Topic: 2777 Message: 2777

I have been receiving N0OY packets on 144.340 for a couple of hours here near Des Moines. There are GPS problems with lat/long/alt frozen but the time stamp is correct when subtracting 12hours (for CST).

Signal strength has been ~S2 with very little change. W0JRT (Lenexa, KS) and KA2FNK (Shawnee, KS) have forwarded scores of packets to FINDU but they stopped roughly a hour ago. Why this happened while I am still copying packets is a mystery.

I tried to find a cell phone number for Pete but without success.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2778. Re: [KNSP] Has anyone heard anything out of Pete's balloon?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-02 18:20:51 UTC
From: Ralph Wallio, W0RPK
Topic: 2777 Message: 2778

Pete's GPS receiver is now working. The balloon has floated across Missouri and is descending slowly near Keokuk, Iowa and the Mississippi River. Current altitude is 46kft.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
To: "Group KNSP" <knsp@yahoogroups.com>; "Group GPSL" <GPSL@yahoogroups.com>
Sent: Saturday, December 02, 2006 12:09 PM
Subject: Re: [KNSP] Has anyone heard anything out of Pete's balloon?

I have been receiving N0OY packets on 144.340 for a couple of hours here near Des Moines. There are GPS problems with lat/long/alt frozen but the time stamp is correct when subtracting 12hours (for CST).

Signal strength has been ~S2 with very little change. W0JRT (Lenexa, KS) and KA2FNK (Shawnee, KS) have forwarded scores of packets to FINDU but they stopped roughly a hour ago. Why this happened while I am still copying packets is a mystery.

I tried to find a cell phone number for Pete but without success.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2779. Re: [KNSP] Has anyone heard anything out of Pete's balloon?

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-02 19:06:22 UTC
From: Ralph Wallio, W0RPK
Topic: 2777 Message: 2779

I have been calling APRS stations on the telephone in western Illinois
asking for them to listen 144.340 and now have the following location:

As of 1830UT: 4034.0403 09105.3619 5882.5m (19,300ft) descending.

Stations in Quincy and Knoxville (near Galesburg) can no longer hear
packets on 144.340. The balloon and payload have evidently landed near
Blandinsville IL approximately 15mi NW of Macomb IL.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
To: "Group KNSP" <knsp@yahoogroups.com>; "Group GPSL"
<GPSL@yahoogroups.com>
Sent: Saturday, December 02, 2006 12:20 PM
Subject: Re: [KNSP] Has anyone heard anything out of Pete's balloon?

Pete's GPS receiver is now working. The balloon has floated across
Missouri and is descending slowly near Keokuk, Iowa and the Mississippi
River. Current altitude is 46kft.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
To: "Group KNSP" <knsp@yahoogroups.com>; "Group GPSL"
<GPSL@yahoogroups.com>
Sent: Saturday, December 02, 2006 12:09 PM
Subject: Re: [KNSP] Has anyone heard anything out of Pete's balloon?

I have been receiving N0OY packets on 144.340 for a couple of hours here
near Des Moines. There are GPS problems with lat/long/alt frozen but the
time stamp is correct when subtracting 12hours (for CST).

Signal strength has been ~S2 with very little change. W0JRT (Lenexa, KS)
and KA2FNK (Shawnee, KS) have forwarded scores of packets to FINDU but they
stopped roughly a hour ago. Why this happened while I am still copying
packets is a mystery.

I tried to find a cell phone number for Pete but without success.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2780. GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-03 17:11:34 UTC
From: Roger Hammond
Topic: 2780 Message: 2780
Attachments: 2 described; binary payloads are missing from this source WARC

Hi gang!

I received the contract from the Howard Johnson. I need to see a virtual show of hands for our two lunch options. Our choices are to order off of an abridged restaurant menu or choose a buffet, both of which will be served to us in another private room. I've attached a couple of .PDFs with all of the options. Price wise there isn't much difference between the menu or the buffet with two entrees. Tax and tip are not included, she did pencil in an amount alongside the two entree buffet to give us an idea of price w/ tax & tip.

As for the request for a 'dutch ticket', it was denied. Apparently everyone will need to pay me the day of the event. She did say that they could set us up a cash box, so I could make change, if need be.

Let's narrow the voting field by first deciding:

* Menu or Buffet

If buffet wins then we can decide on entrees etc.

* I need a head count on those planning on attending GPSL 2007's conference & lunch.

We have at least 15 guest rooms blocked for the event at a price of $65.95 per room.
If we need more rooms, that can be arranged.

2781. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-03 18:42:46 UTC
From: Harry M
Topic: 2780 Message: 2781

ORB's VOTE

BUFFET
2 ADULTS

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

2782. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-03 21:18:58 UTC
From: Zack Clobes
Topic: 2780 Message: 2782

Traveler is still unsure whether or not we'll make it next year. Right now, it's 50/50.

If we do show, it'll probably be 1 or 2 for lunch, and I don't think we care what we eat, so long as it's good.

Zack

Roger Hammond wrote:
>
> Hi gang!
>
> I received the contract from the Howard Johnson. I need to see a
> virtual show of hands for our two lunch options. Our choices are to
> order off of an abridged restaurant menu or choose a buffet, both of
> which will be served to us in another private room. I've attached a
> couple of .PDFs with all of the options. Price wise there isn't much
> difference between the menu or the buffet with two entrees. Tax and
> tip are not included, she did pencil in an amount alongside the two
> entree buffet to give us an idea of price w/ tax & tip.
>
> As for the request for a 'dutch ticket', it was denied. Apparently
> everyone will need to pay me the day of the event. She did say that
> they could set us up a cash box, so I could make change, if need be.
>
> Let's narrow the voting field by first deciding:
>
>
> * Menu or Buffet
>
> If buffet wins then we can decide on entrees etc.
>
>
> * I need a head count on those planning on attending GPSL 2007's
> conference & lunch.
>
>
> We have at least 15 guest rooms blocked for the event at a price of
> $65.95 per room.
> If we need more rooms, that can be arranged.
>
>
>

2783. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-03 22:47:15 UTC
From: Mark Conner
Topic: 2780 Message: 2783
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2784. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-03 23:59:45 UTC
From: Brek Brixius
Topic: 2780 Message: 2784

BUNS votes Buffet with 2 adults confirmed so far (one couple).

Brek - KC0YOE

Roger Hammond <rahammond@...> wrote:
Hi gang!

I received the contract from the Howard Johnson. I need to see a virtual show of hands for our two lunch options. Our choices are to order off of an abridged restaurant menu or choose a buffet, both of which will be served to us in another private room. I've attached a couple of .PDFs with all of the options. Price wise there isn't much difference between the menu or the buffet with two entrees. Tax and tip are not included, she did pencil in an amount alongside the two entree buffet to give us an idea of price w/ tax & tip.

As for the request for a 'dutch ticket', it was denied. Apparently everyone will need to pay me the day of the event. She did say that they could set us up a cash box, so I could make change, if need be.

Let's narrow the voting field by first deciding:

Menu or Buffet
If buffet wins then we can decide on entrees etc.

I need a head count on those planning on attending GPSL 2007's conference & lunch.

We have at least 15 guest rooms blocked for the event at a price of $65.95 per room.
If we need more rooms, that can be arranged.

Want to start your own business? Learn how on Yahoo! Small Business.

2785. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-04 03:23:53 UTC
From: David Hoffman
Topic: 2780 Message: 2785

Put me down as the buffet preferred as well. I'd go either way though.
So far, I have two going. Put me down as being with Bill Brown's group.
I'll use the hotel as well.

David Hoffman - KE4FGW

2786. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-04 11:37:47 UTC
From: Troy Campbell
Topic: 2780 Message: 2786

NSV and CAPnSPACE votes buffet.

There will probably be around 8 but I don't know how many will want rooms.

Troy

Roger Hammond <rahammond@...> wrote:
Hi gang!

I received the contract from the Howard Johnson. I need to see a virtual show of hands for our two lunch options. Our choices are to order off of an abridged restaurant menu or choose a buffet, both of which will be served to us in another private room. I've attached a couple of .PDFs with all of the options. Price wise there isn't much difference between the menu or the buffet with two entrees. Tax and tip are not included, she did pencil in an amount alongside the two entree buffet to give us an idea of price w/ tax & tip.

As for the request for a 'dutch ticket', it was denied. Apparently everyone will need to pay me the day of the event. She did say that they could set us up a cash box, so I could make change, if need be.

Let's narrow the voting field by first deciding:

Menu or Buffet
If buffet wins then we can decide on entrees etc.

I need a head count on those planning on attending GPSL 2007's conference & lunch.

We have at least 15 guest rooms blocked for the event at a price of $65.95 per room.
If we need more rooms, that can be arranged.

Have a burning question? Go to Yahoo! Answers and get answers from real people who know.

2787. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-04 14:33:47 UTC
From: PAUL VERHAGE
Topic: 2780 Message: 2787

Buffett sounds fine. I'll be there.

Paul

>>> Zack Clobes <zclobes@...> 12/3/2006 2:18:58 pm >>>
Traveler is still unsure whether or not we'll make it next year. Right

now, it's 50/50.

If we do show, it'll probably be 1 or 2 for lunch, and I don't think we

care what we eat, so long as it's good.

Zack

Roger Hammond wrote:
>
> Hi gang!
>
> I received the contract from the Howard Johnson. I need to see a
> virtual show of hands for our two lunch options. Our choices are to
> order off of an abridged restaurant menu or choose a buffet, both of

> which will be served to us in another private room. I've attached a
> couple of .PDFs with all of the options. Price wise there isn't much

> difference between the menu or the buffet with two entrees. Tax and
> tip are not included, she did pencil in an amount alongside the two
> entree buffet to give us an idea of price w/ tax & tip.
>
> As for the request for a 'dutch ticket', it was denied. Apparently
> everyone will need to pay me the day of the event. She did say that
> they could set us up a cash box, so I could make change, if need be.
>
> Let's narrow the voting field by first deciding:
>
>
> * Menu or Buffet
>
> If buffet wins then we can decide on entrees etc.
>
>
> * I need a head count on those planning on attending GPSL 2007's
> conference & lunch.
>
>
> We have at least 15 guest rooms blocked for the event at a price of

> $65.95 per room.
> If we need more rooms, that can be arranged.
>
>
>

2788. RE: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-04 16:50:49 UTC
From: Kaiser, Deborah
Topic: 2780 Message: 2788

The KaiserKlan (Keith and Deb Kaiser) vote for the buffet also.

Thanks.

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Roger Hammond
Sent: Sunday, December 03, 2006 11:12 AM
To: GPSL list
Subject: [GPSL] GPSL 2007 contract pending...

Hi gang!

I received the contract from the Howard Johnson. I need to see a virtual show of hands for our two lunch options. Our choices are to order off of an abridged restaurant menu or choose a buffet, both of which will be served to us in another private room. I've attached a couple of .PDFs with all of the options. Price wise there isn't much difference between the menu or the buffet with two entrees. Tax and tip are not included, she did pencil in an amount alongside the two entree buffet to give us an idea of price w/ tax & tip.

As for the request for a 'dutch ticket', it was denied. Apparently everyone will need to pay me the day of the event. She did say that they could set us up a cash box, so I could make change, if need be.

Let's narrow the voting field by first deciding:

* Menu or Buffet

If buffet wins then we can decide on entrees etc.

* I need a head count on those planning on attending GPSL 2007's conference & lunch.

We have at least 15 guest rooms blocked for the event at a price of $65.95 per room.

If we need more rooms, that can be arranged.

2789. Web Site

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 01:01:33 UTC
From: PAUL VERHAGE
Topic: 2789 Message: 2789

I've set up a website for my balloon program. When you get a chance you can check it out at nearsys.org.

Paul

2790. Re: [GPSL] Web Site

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 03:04:43 UTC
From: Harry M
Topic: 2789 Message: 2790

Great Job... Looks good Paul.
I particularly like the "milk man" suit! :)

There is a broken link to "BASIC Stamp Near Space Book"
http://nearsys.org/pubs/www.parallax.comhtml_pages/resources/custapps/apps_nearpsace.asp/

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

2791. New MicroTrak 300 version out

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 14:51:23 UTC
From: mconner1@gmail.com
Topic: 2791 Message: 2791

Now in kit form at $95. A 144.800 version and an 8-channel programmable unit is expected sometime next year.

73 de Mark N9XTN

http://www.byonics.com/microtrak300/

VHS and Byonics are pleased to offer the new Micro-Trak 300, version 1.3. Version 1.3 has improved features, including higher power efficiency, greater ease of interface, and is significantly less expensive than the Micro-Trak 1.1 at only $95.00! This 1/3 watt, 2 meter transmitter is available on 144.390 and uses the TinyTrak 3 PIC controller.

The new MT-300 is sold as an easy to assemble kit. No tuning or adjustments are required. Just solder on the parts, provide power, a GPS input, and an antenna output, and you are ready to track! The input connections may be made by soldering directly to PC board, but a DB9 connector is designed to slide over the board for those of you who don't mind the added weight. The Micro-Trak 300 measures 1 X 3 inches and weighs less than half an ounce! A manual will be available for download on the Byonics website (www.byonics.com)

2792. Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 16:21:39 UTC
From: Harry M
Topic: 2792 Message: 2792

An experiment by the Kansas Wesleyan University Physics Club soared Saturday morning (December 2)...

http://www.kwu.edu/publicrelations/stories/200607/balloon2.html

---
Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2793. Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 17:00:56 UTC
From: Hank
Topic: 2792 Message: 2793

Good account. I wonder why the fill was so underestimated if
that was the cause of the balloon's slow rise?

url retyped to prevent unnecessary "page not found" rage:

http://www.kwu.edu/publicrelations/stories/200607/balloon2.htm

Hank

2794. RE: [GPSL] Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 17:30:44 UTC
From: Marty Griffin
Topic: 2792 Message: 2794

Hi Harry,
Can you tell me what was the APRS call? NØOY?
- Marty, WA0GEH
EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Tuesday, December 05, 2006 9:22 AM
To: Balloons-Rockets@...; TVNSP List; Gpsl@...
Subject: [GPSL] Balloon Launched and Lost

An experiment by the Kansas Wesleyan University Physics Club soared Saturday morning (December 2)...

http://www.kwu.edu/publicrelations/stories/200607/balloon2.html

-----
Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

2795. Re: [GPSL] Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 17:41:07 UTC
From: Hank Riley
Topic: 2792 Message: 2795

Last time it didn't work the way I entered the url
either. :(Spurious spaces are the culprits.

This time I'm using email and not the yahoogroup webpage
posting method. Tried a test message first and it worked,
so fingers crossed right now.

url retyped to prevent unnecessary "page not found" rage:

http://www.kwu.edu/publicrelations/stories/200607/balloon2.html

---
Yahoo! Music Unlimited
Access over 1 million songs.
http://music.yahoo.com/unlimited

2796. Re: [GPSL] Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 20:05:36 UTC
From: Harry M
Topic: 2792 Message: 2796

Hi Marty,

Yep, you got the Call right.
I listened, but heard nothing, audibly or decoded APRS.
If it was putting out 1w I should've heard it. FinfU kept showing just over 22k.

73 Harry

"Some journeys are measured by where they lead,
others by the strength it takes to get there."

2797. Re: [GPSL] Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 21:45:13 UTC
From: Ralph Wallio, W0RPK
Topic: 2792 Message: 2797

Harry --

The N0OY KWU/SSOK flight was ascending very slowly, ~350ft/min, and tracking east in a hurry (118kts
in the interval I am looking at. It appears the payload was moving away from you too fast for
increasing altitude to create your required path.

I received a high percentage of transmitted packets here near Des Moines from 15:56z to 18:20z while
the payload tracked east across Missouri well south of me. I did not understand what was happening
until the last 5min when the GPS problem was resolved allowing a few packets to provide good
position reports when the payload was near Keokuk IA and the Mississippi River.

N0OY was transmitting on 144.340 so there was very limited APRS network coverage. A couple of
stations in the Kansas City area forwarded lots of packets containing bad GPS data but the payload
had tracked too far east for them to receive and forward packets after the GPS data was good.

When the GPS data straightened out the payload was right on my eastern horizon and heading further
east in a hurry. I received only a few good packets before loss of signal. But that was enough for
me to understand what was happening and I knew Pete needed more tracking data. I checked the real
time APRS maps and found a couple of active stations in western Illinois, then looked up their
license info then found their home telephone numbers.

Luckily Ron Rose, AA9GL, was at home in Quincy IL. He quickly QSYed his APRS radio to 144.34 and
received one good packet. Bill Pelton, WA9BNZ, was also at home near Knoxville IL but by the time I
called him the payload had (as I now understand) already landed.

Plotting of the few good packets I received with the one Ron received has provided a good idea of
where the payload landed. All of this information was forwarded to Pete (that is where the info in
the KWU article came from) and today Mark Garrett, KA9SZX, is putting a search plan together. The
payload includes a DF beacon with batteries that will last through this coming weekend. But

there
is a lot of deep snow still on roads let alone in harvested fields. Recovery, while possible, is
not going to be easy.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2798. Re: [GPSL] Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 22:17:29 UTC
From: mconner1@gmail.com
Topic: 2792 Message: 2798
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2799. Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 22:35:02 UTC
From: Hank
Topic: 2792 Message: 2799

> The payload includes a DF beacon with batteries that will
> last through this coming weekend.

Ralph,

Could you elaborate at all on the above? Tech details
on the DF transmitter is what I'm looking for.

Hank

2800. Re: [GPSL] Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-05 23:29:59 UTC
From: Harry M
Topic: 2792 Message: 2800

Thanks Ralph!

I hope they are able to recover it. I had thought along the same lines as Mark about airborne search when OSU was to fly last weekend. Those orange chutes will stick out like a sore thumb against the snow. An airborne search is how we got one of the ASTRO flights recovered. I contacted a pipeline pilot and he found it in a muddy pasture on his morning pipeline inspection.

Looks like OSU will attempt to fly this coming weekend, although there won't be much snow left around here by then for chute spotting. http://astro.okstate.edu/

73 Harry

2801. Re: [GPSL] Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 10:58:00 UTC
From: Ralph Wallio, W0RPK
Topic: 2792 Message: 2801

Late news about the KWC/SSOK/N0OY payload. It has been recovered by Mark Garrett, KA9SZX, using the
DF beacon. Landing was 2.5mi SW of the center of the recommended search area in McDonough County
IL.

Hank -- I am located near Des Moines IA. The payload was built and launched in Salina KS. It is my
understanding that the DF beacon is a 28.322MHz crystal oscillator can (sometimes known as a
Fireball transmitter).

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2802. Re: [GPSL] Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 12:28:05 UTC
From: Ralph Wallio, W0RPK
Topic: 2792 Message: 2802

Thanks for the heads-up on ASTRO-6 Harry. I have updated our Launch Announcements ccordingly. --w0rpk

2803. Re: [GPSL] Re: Balloon Launched and Lost

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 14:41:02 UTC
From: Harry M
Topic: 2792 Message: 2803

Thanks Ralph!

73 Harry

> Thanks for the heads-up on ASTRO-6 Harry. I have updated our Launch
> Announcements
> ccordingly. --w0rpk

2804. Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 14:57:58 UTC
From: PAUL VERHAGE
Topic: 2569 Message: 2804

I've started a Launched All States page on my web site. I only have a few listings. If you've launched from more than one state, could you email me the states you've launched from?

Thanks,
Paul

2805. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 15:24:06 UTC
From: Harry M
Topic: 2569 Message: 2805

ORB/KC5TRB has launched from...

Oklahoma
Kansas
Iowa

73 Harry

2806. Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 16:12:05 UTC
From: PAUL VERHAGE
Topic: 2569 Message: 2806

I've Harry's and Roger's states. I think I know TVNSP's and Mike emailed me EOSS's.

Paul

2807. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 17:50:40 UTC
From: Stephanie Steele
Topic: 2569 Message: 2807

TVNSP has launched from:

Idaho
Oregon
Nevada

PAUL VERHAGE wrote:
> I've started a Launched All States page on my web site. I only have a
> few listings. If you've launched from more than one state, could you
> email me the states you've launched from?
>
> Thanks,
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

--
Stephanie

****

Fate, luck, and chance are easy prey for preparation.

****

Friends are quiet angels who lift us to our feet when our wings have trouble remembering how to fly.

****

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de recta non tolerandum sunt

****

...and for those who just can not get enough tag lines:

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individual addressee(s) named above and may contain
information that is confidential privileged or unsuitable
for overly sensitive persons with low self-esteem, no
sense of humor or irrational religious beliefs. If you are
not the intended recipient, any dissemination, distribution
or copying of this email is not authorized (either explicitly
or implicitly) and constitutes an irritating social faux pas.
Unless the word absquatulation has been used in its
correct context somewhere other than in this warning,
it does not have any legal or grammatical use and may
be ignored. No animals were harmed in the transmission
of this email, although the kelpie next door is living on
borrowed time, let me tell you.

Those of you with an overwhelming fear of the unknown
will be gratified to learn that there is no hidden message
revealed by reading this warning backwards, so just ignore
that Alert Notice from Microsoft. However, by pouring a
complete circle of salt around yourself and your computer
you can ensure that no harm befalls you and your pets.
If you have received this email in error, please add some
nutmeg and egg whites, whisk and place in a warm oven
for 40 minutes

2808. Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 19:28:44 UTC
From: mconner1@gmail.com
Topic: 2569 Message: 2808

NSTAR has launched from Nebraska, Kansas, and Iowa.

73 de Mark N9XTN

2809. Re: GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 21:44:08 UTC
From: shermane2001
Topic: 2780 Message: 2809

Hi, this is MECSAT from NYC. We are planning to attend the GPSL in
2007 and will bring 3-4 students for a group total of 5-6.

--- In GPSL@yahoogroups.com, "Roger Hammond" <rahammond@...> wrote:
>
> Hi gang!
>
> I received the contract from the Howard Johnson. I need to see a virtual
> show of hands for our two lunch options. Our choices are to order
off of an
> abridged restaurant menu or choose a buffet, both of which will be
served to
> us in another private room. I've attached a couple of .PDFs with all
of the
> options. Price wise there isn't much difference between the menu or the
> buffet with two entrees. Tax and tip are not included, she did
pencil in an
> amount alongside the two entree buffet to give us an idea of price
w/ tax &
> tip.
>
> As for the request for a 'dutch ticket', it was denied. Apparently
everyone
> will need to pay me the day of the event. She did say that they
could set us
> up a cash box, so I could make change, if need be.
>
> Let's narrow the voting field by first deciding:
>
>
> * Menu or Buffet
>
> If buffet wins then we can decide on entrees etc.
>
>
> * I need a head count on those planning on attending GPSL 2007's
> conference & lunch.
>
>
> We have at least 15 guest rooms blocked for the event at a price of
$65.95
> per room.
> If we need more rooms, that can be arranged.
>

2810. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-06 22:35:43 UTC
From: Zack Clobes
Topic: 2569 Message: 2810

I think you had PT down for Nebraska, but we haven't launch there - only recovered and attended GPSL.

Zack

PAUL VERHAGE wrote:
>
> I've started a Launched All States page on my web site. I only have a
> few listings. If you've launched from more than one state, could you
> email me the states you've launched from?
>
> Thanks,
> Paul
>
>

2811. Re: [GPSL] Re: GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 15:11:34 UTC
From: Roger Hammond
Topic: 2780 Message: 2811
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2812. Upcoming balloon launches from Antarctica - An update.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 18:42:11 UTC
From: Luis Eduardo Pacheco
Topic: 2812 Message: 2812
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2813. Re: [GPSL] Upcoming balloon launches from Antarctica - An update.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 19:01:07 UTC
From: PAUL VERHAGE
Topic: 2812 Message: 2813

Okay, so how do we get to Antarctia to do a launch? I'd like to add
that to my list.

Paul "its cold here" Verhage

>>> "Luis Eduardo Pacheco" <stratocat.iespana.es@...> 12/7/2006
11:42 am >>>
[image: ANITA in Williams Field]*McMurdo Base (Antarctica) *As every
year
from 1990, at the end of the austral spring, had started the
preparations
for the NASA's Long Duration Stratospheric Balloon campaign. This
year,
thanks to the improved facilities at Williams Field in the USA's base
of
McMurdo, hopefully will be sent aloft three balloons each carriying
diffrent
instruments to made circumpolar flights with a duration between 8 and
20
days.

After the arrival of the science teams, the payload's reading effort
started
early in November and are still going on, with most of the hard work
of
integration already done in the three instruments. The circular pattern
of
winds in the stratosphere -the so called "polar vortex"- has not formed
yet,
so taking account of the need to wait for the full stabilization of the
air
flow, the balloons would still wait some days to be launched.

The balloon base (located near the Williams Field airfield) have two
main
buildings High Bay 1 & 2, used as integration buildings and
laboratories by
the teams of scientists of each experiment. They are occupied only
during
work hours due to the fact that all the people working there have
their
sleep place in McMurdo, located a few miles away.
To see this year's main starrings, and their actual condition go to
http://stratocat.com.ar/indexe.html

Best regards

--
Luis Eduardo Pacheco
StratoCat - (english version: http://stratocat.com.ar/indexe.html)
Historical recopilation project on the use of stratospheric balloons in
the
scientific research, the military field and the aerospace activity

2814. Re: [GPSL] Upcoming balloon launches from Antarctica - Anupdate.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 19:09:20 UTC
From: Harry M
Topic: 2814 Message: 2814

Hitchhike!

:)

> Okay, so how do we get to Antarctia to do a launch? I'd like to add
> that to my list.

2815. Re: [GPSL] Upcoming balloon launches from Antarctica - An update.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 19:28:03 UTC
From: Roger Hammond
Topic: 2812 Message: 2815
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2816. Re: [GPSL] Re: GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 19:36:53 UTC
From: wb8elk@aol.com
Topic: 2780 Message: 2816

WB8ELK plans to attend and also will be at the meals - buffet is my vote.

Total of 2 to 4 attendees possible in my group.

- Bill WB8ELK

2817. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 19:34:07 UTC
From: wb8elk@aol.com
Topic: 2569 Message: 2817

WB8ELK has launched from:

OH
IN
IL
CA
UT
WY
TX
KS
CO
IA
NH
MA
ME
CT
NC
GA
TN
AL

18 states total

- Bill WB8ELK

2818. Re: [GPSL] Upcoming balloon launches from Antarctica - An update.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 20:04:15 UTC
From: PAUL VERHAGE
Topic: 2812 Message: 2818

Umm, I like that one.

Paul

>>> "Roger Hammond" <rahammond@...> 12/7/2006 12:28 pm >>>
Does this mean you're starting a LAC, Launched All Continents award?
=)

Rog KC0MWM

On 12/7/06, PAUL VERHAGE <paul.verhage@...> wrote:
>
> Okay, so how do we get to Antarctia to do a launch? I'd like to
add
> that to my list.
>
> Paul "its cold here" Verhage
>
> >>> "Luis Eduardo Pacheco"
<stratocat.iespana.es@...<stratocat.iespana.es%40gmail.com>>
> 12/7/2006
> 11:42 am >>>
> [image: ANITA in Williams Field]*McMurdo Base (Antarctica) *As every
> year
> from 1990, at the end of the austral spring, had started the
> preparations
> for the NASA's Long Duration Stratospheric Balloon campaign. This
> year,
> thanks to the improved facilities at Williams Field in the USA's
base
> of
> McMurdo, hopefully will be sent aloft three balloons each carriying
> diffrent
> instruments to made circumpolar flights with a duration between 8
and
> 20
> days.
>
> After the arrival of the science teams, the payload's reading effort
> started
> early in November and are still going on, with most of the hard work
> of
> integration already done in the three instruments. The circular
pattern
> of
> winds in the stratosphere -the so called "polar vortex"- has not

formed
> yet,
> so taking account of the need to wait for the full stabilization of
the
> air
> flow, the balloons would still wait some days to be launched.
>
> The balloon base (located near the Williams Field airfield) have two
> main
> buildings High Bay 1 & 2, used as integration buildings and
> laboratories by
> the teams of scientists of each experiment. They are occupied only
> during
> work hours due to the fact that all the people working there have
> their
> sleep place in McMurdo, located a few miles away.
> To see this year's main starrings, and their actual condition go to
> http://stratocat.com.ar/indexe.html
>
> Best regards
>
> --
> Luis Eduardo Pacheco
> StratoCat - (english version: http://stratocat.com.ar/indexe.html)
> Historical recopilation project on the use of stratospheric balloons
in
> the
> scientific research, the military field and the aerospace activity
>
>
>

2819. Found A tiny Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 22:17:41 UTC
From: nssdz
Topic: 2819 Message: 2819

While shopping I saw at of all places "Walgreens" a TINY and I mean TINY digital Camera,,

It is 59mm by 42mm by 15mm and weighs only 27 grams! The package says it can take up to 243 pictures. havent see what that quality is like,, but in the photos area i added two pictures

1- of the camera itself next to a USB cable showing how tiny this thing really is.

2- then picture from the camera itself. not too bad quality..

and get this the camera was $9.95

I thought can't go wrong there..

I have yet to rip it apart to see how hard it would be to automate the taking of shots for a flight,, but holy cow 27 grams! YIkes!

Joe WB9SBD
Near Space Sciences

2820. Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 23:13:57 UTC
From: Troy Campbell
Topic: 2820 Message: 2820

All,

Where do you get nichrome wire? And what gage is usually used for cutdown devices?

Thanks in advance.

73 de Troy, KC0MIC

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http://mail.yahoo.com

2821. RE: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 23:33:05 UTC
From: Marty Griffin
Topic: 2569 Message: 2821

Impressive but not surprising! I was waiting for this one. Wrap up an award and get it in the mail! Congrats Bill!
- Marty, WA0GEH
EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Thursday, December 07, 2006 12:34 PM
To: GPSL@yahoogroups.com
Cc: paul.verhage@...
Subject: Re: [GPSL] Launched All States

WB8ELK has launched from:

OH
IN
IL
CA
UT
WY
TX
KS
CO
IA
NH
MA
ME
CT
NC
GA
TN
AL

18 states total

- Bill WB8ELK

2822. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 23:45:09 UTC
From: Hank Riley
Topic: 2820 Message: 2822

> Where do you get nichrome wire? And what gage is usually used
> for cutdown devices?

Model rocket places have it (Google). One outfit was gaving
away a good handful for free by first class mail as an incentive.

Following Mike Manes' suggestion, I've also pulled out wire
from a busted hair dryer. Will have to measure, but it's typically
in the region of the diameter for *copper wire*
gauge #26 to #30.

Depends on how long your wire is and what you're using for
applied voltage.

Have a burning question?
Go to www.Answers.yahoo.com and get answers from real people who know.

2823. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-07 23:58:53 UTC
From: Harry M
Topic: 2569 Message: 2823

What state is the Gulf of Mexico in?

73 Harry

2824. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 00:13:09 UTC
From: Zack Clobes
Topic: 2820 Message: 2824

I have a big wad of it somewhere. If you send me your address (and I
can find my stash since the move), I'll send you some samples.

Zack Clobes, W0ZC

Troy Campbell wrote:
>
> All,
>
> Where do you get nichrome wire? And what gage is usually used for
> cutdown devices?
>
> Thanks in advance.
>
> 73 de Troy, KC0MIC
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>

2825. Re: [GPSL] Re: GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 04:06:51 UTC
From: David Hoffman
Topic: 2780 Message: 2825

In addition to my two, correct Bill?

David Hoffman - KE4FGW

> WB8ELK plans to attend and also will be at the meals - buffet is my vote.
>
> Total of 2 to 4 attendees possible in my group.
>
> - Bill WB8ELK
>
>
>

2826. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 04:48:34 UTC
From: Brek Brixius
Topic: 2820 Message: 2826

I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of 29 gauge on ebay pretty cheap. Thats what I am going to try.

Anybody have recommendations on a battery to power the burner?

Brek - KC0YOE

Troy Campbell <kc0mic@...> wrote:
All,

Where do you get nichrome wire? And what gage is usually used for cutdown devices?

Thanks in advance.

73 de Troy, KC0MIC

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Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.

2827. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 05:37:18 UTC
From: Harry M
Topic: 2820 Message: 2827

LOST IN THE OZONE!
I didn't see my original post so I've re-sent this.

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Thursday, December 07, 2006 5:57 PM
Subject: Re: [GPSL] Nichrome wire

Hi Troy,

I went to a couple garage sales and bought 2 or 3 old hair dryers for less then $2 a piece. They have 2-4 different sizes of nichrome in them. I can't tell you what Ga I used. I just experimented with a few homemade coils until I found what worked for my application.

If your wife's hair dryer dissapears...this was not my idea!

:)

73 Harry

2828. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 14:25:14 UTC
From: PAUL VERHAGE
Topic: 2820 Message: 2828

Troy, if you need some nichrome, I can send you some.

I've forgotten where I ordered mine, but it was in a spool of 50 feet. You only need three inches of the stuff, so I have way more than I'll ever need.

I used a 6 volt camera battery for the power source. Is it a 2CR5 battery? It looks like two cells side by side.

Paul

>>> Brek Brixius <gofly2007@...> 12/7/2006 9:48 pm >>>
I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of 29 gauge on ebay pretty cheap. Thats what I am going to try.

Anybody have recommendations on a battery to power the burner?

Brek - KC0YOE

Troy Campbell <kc0mic@...> wrote:
All,

Where do you get nichrome wire? And what gage is usually used for cutdown devices?

Thanks in advance.

73 de Troy, KC0MIC

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http://mail.yahoo.com

Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.

2829. Re: [GPSL] Found A tiny Digital Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 16:33:27 UTC
From: PAUL VERHAGE
Topic: 2819 Message: 2829

The problem I've run into with cameras like this is that they're not properly focused for infinity. So close ups of friends are focused well enough, but the horizon is a little blurry.

I'd be interested to see if you can adjust the lens.

Oh, the other problem is that they may not retain images once the battery is removed. If so, you want to make sure power is not lost until after you download the images.

A tiny camera like this may be neat for photographing experiments, where you don't need to see infinity (my favorite number).

Paul "Do I look blurry?" Verhage

>>> "nssdz" <nss@...> 12/7/2006 3:17 pm >>>
While shopping I saw at of all places "Walgreens" a TINY and I mean TINY digital Camera,,

It is 59mm by 42mm by 15mm and weighs only 27 grams! The package says it can take up to 243 pictures. havent see what that quality is like,, but in the photos area i added two pictures

1- of the camera itself next to a USB cable showing how tiny this thing really is.

2- then picture from the camera itself. not too bad quality..

and get this the camera was $9.95

I thought can't go wrong there..

I have yet to rip it apart to see how hard it would be to automate the taking of shots for a flight,, but holy cow 27 grams! YIkes!

Joe WB9SBD
Near Space Sciences

Yahoo! Groups Links

2830. Seasonal Winds

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 20:47:57 UTC
From: Joe
Topic: 2830 Message: 2830

As well know, the winter has the high speed winds.. But i remember seeing someplace some data recorded for many years about the speeds.

in other words when are the highest speeds,, and when is it the most consistently high/

joe

2831. Re: [GPSL] Seasonal Winds

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 20:57:36 UTC
From: mconner1@gmail.com
Topic: 2830 Message: 2831
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2832. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 05:39:40 UTC
From: Mike Manes
Topic: 2820 Message: 2832

Hi Troy,

I use #28 AWG (0.013" diam) NiCr heater wire salvaged from a used
hair dryer I got from the Good Will store for $2.00.

73 de Mike W5VSI

Troy Campbell wrote:
> All,
>
> Where do you get nichrome wire? And what gage is usually used for
> cutdown devices?
>
> Thanks in advance.
>
> 73 de Troy, KC0MIC
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2833. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-08 05:46:13 UTC
From: Mike Manes
Topic: 2569 Message: 2833

Woo-HOO, that's TX-LA-AL-MS-FL! You got 5 in one shot :=}.
Or is that the State of Confusion ...?
Mike

Harry M wrote:
>
> What state is the Gulf of Mexico in?
>
> 73 Harry
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2834. ASTRO-6 10m Beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 01:22:57 UTC
From: Harry M
Topic: 2834 Message: 2834

OSU's ASTRO-6 balloon is scheduled to fly in the morning (Sat) at 0900 CST / 1400z from Stillwater, Ok. I have added my QQRP 10 meter CW beacon to the bottom of the payload train. It will be on 28.636.

QSL reports would be greatly appreciated!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2835. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 03:00:03 UTC
From: Mike Manes
Topic: 2820 Message: 2835

Hi Brek,

I use two CR123 LiSO2 cells in series for 250# nylon line, and three of 'em for 500# line. You must keep circuit resistance to a minimum, so use a 5A rated contact relay and no more than about 3 ft of #16-2 cord between the battery and the burner. This will give you a good cut under tension in about 4 seconds. If you limit burner activation to 10 secs per shot, you can get about 10 shots out of a fresh set of batts.

EOSS parachutes have a pouch sewn into the inner surface of the 'chute canopy to carry the battery/relay pack. The relay coil is driven thru a buncha feet of #28-2 cord from the command receiver/decoder hung at the bottom of the shroud lines. Make sure to provide plenty of slack in the wire to accommodate nylon stretch under tension.

Terminating the NiCr wire to the Cu burned cord conductors can be tedious, since NiCr (basically stainless steel) doesn't tin easily. I used to use silver solder with a real nasty flux after abrading the NiCr wire to get a fair solder joint. But lately, I've adopted a crimp technique that seems to provide a good mechanical joint and can be soldered using the foregoing method. Get some hobby brass tubing just large enough to slip over the paired NiCr and Cu conductors and crimp it tight using vise grip pliers. Then solder.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes
> a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of
> 29 gauge on ebay pretty cheap. Thats what I am going to try.
>
> Anybody have recommendations on a battery to power the burner?
>
> Brek - KC0YOE
>
>
> */Troy Campbell <kc0mic@...>/* wrote:
>
> All,
>
> Where do you get nichrome wire? And what gage is usually used for
> cutdown devices?
>
> Thanks in advance.
>
> 73 de Troy, KC0MIC

> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
> ~~~~~~
> Need a quick answer? Get one in minutes from people who know. Ask your
> question on Yahoo! Answers
> <http://answers.yahoo.com/;_ylc=X3oDMTFvbGNhMGE3BF9TAzM5NjU0NTEwOARfcwMzOTY1NDUxMDMEc2Vj
A21haWxfdGFnbGluZQRzbGsDbWFpbF90YWcx>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2836. Re: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 01:47:35 UTC
From: Mike Manes
Topic: 2569 Message: 2836

Well, that's tough to top! In fairness, should we invite Norm Kjome KB7VTJ to list his launch sites for the fun of it? Yeah, his were mostly professional launches, but his contributions to development of ARHAB out this way deserve a lot of credit!

73 de Mike W5VSI, EOSS

wb8elk@... wrote:
> WB8ELK has launched from:
>
> OH
> IN
> IL
> CA
> UT
> WY
> TX
> KS
> CO
> IA
> NH
> MA
> ME
> CT
> NC
> GA
> TN
> AL
>
> 18 states total
>
> - Bill WB8ELK
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2837. Re: Flight Scheduling

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 02:36:52 UTC
From: Mike Manes
Topic: 2837 Message: 2837

Hi Austin,

I'm just collecting a head count for EOSS. The guy who ultimately needs the info is Roger Hammond KC0MWM, who's sponsoring GPSL 07 in North Platte. His immediate interest is how many to expect for the lunch at HoJo's during the Friday conference and preference re buffet or menu for lunch.

I've added Roger to this reply, and I look forward to meeting you at GSPL next summer! GL on your Feb 17 flight!

73 de Mike W5VSI, EOSS

Austin Weis wrote:
> Mike, I'm going to make every effort to be at GPSL in 2007. Probably
> just myself. I would prefer a buffet. If I stay over it will be at the
> Hojo. I have family in North Platte, which is about 2 hours away. But
> that's a long drive. I will probably stay at least Friday night.
>
>
>
> Thanks much,
>
>
>
> Austin kb5iim
>
>
>
> BTW- we'll probably have a balloon launch from Guymon, OK on Feb. 17th
> . Haven't posted it yet, but I will soon.
>

--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2838. Re: [GPSL] Upcoming balloon launches from Antarctica - An update.

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 01:42:32 UTC
From: Mike Manes
Topic: 2812 Message: 2838

Duh ... wot state is Antarctica in?
Mike

PAUL VERHAGE wrote:
> Okay, so how do we get to Antarctia to do a launch? I'd like to add
> that to my list.
>
> Paul "its cold here" Verhage
>
>>>> "Luis Eduardo Pacheco" <stratocat.iespana.es@...> 12/7/2006
> 11:42 am >>>
> [image: ANITA in Williams Field]*McMurdo Base (Antarctica) *As every
> year
> from 1990, at the end of the austral spring, had started the
> preparations
> for the NASA's Long Duration Stratospheric Balloon campaign. This
> year,
> thanks to the improved facilities at Williams Field in the USA's base
> of
> McMurdo, hopefully will be sent aloft three balloons each carriying
> diffrent
> instruments to made circumpolar flights with a duration between 8 and
> 20
> days.
>
> After the arrival of the science teams, the payload's reading effort
> started
> early in November and are still going on, with most of the hard work
> of
> integration already done in the three instruments. The circular pattern
> of
> winds in the stratosphere -the so called "polar vortex"- has not formed
> yet,
> so taking account of the need to wait for the full stabilization of the
> air
> flow, the balloons would still wait some days to be launched.
>
> The balloon base (located near the Williams Field airfield) have two
> main
> buildings High Bay 1 & 2, used as integration buildings and
> laboratories by
> the teams of scientists of each experiment. They are occupied only
> during
> work hours due to the fact that all the people working there have
> their

> sleep place in McMurdo, located a few miles away.
> To see this year's main starrings, and their actual condition go to
> http://stratocat.com.ar/indexe.html
>
> Best regards
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2839. ASTRO-6 Prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 13:04:19 UTC
From: Harry M
Topic: 2839 Message: 2839

ASTRO-6 KC5TRB Landing Prediction
N36.0649 / W96.5119

73 Harry KC5TRB

2840. ASTRO-6 Recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-09 23:52:01 UTC
From: Harry M
Topic: 2840 Message: 2840

ASTRO-6 was launched by Dr. Andy Arena (KE5CAB) and Joe Conner (W2OSU) just after 0900 CST from the OSU West Lab High Bay. Just before launch I positioned myself near the predicted landing site. The flight path was almost as expected. It followed the predicted profile but surface & low level winds were higher than predicted and the ascent rate was higher than predicted. Andy believes in using the EOSS term... "Just a little more gas!" :)

I rendevoused with Andy & Joe and soon after, we had burst at 96k ft. We spotted the chute and payloads at 3k ft and it passed overhead at 500 ft. We had a .23 mi walk into snowy woods, full of 50-75 ft trees, along a creek following deer trails. Sure was pretty! All 10 of the silver camera payloads were strung horizontally across some 8 ft trees. Had it been a pine tree it would've looked like a Christmas tree with decorations. The tracking payload and chute were on the ground close by. My 10m beacon had been ripped loose and was gone. All that was left was the attachment cord and most of one side of the wire dipole that the cord was tied to.

We stopped in the town of Yale, Oklahoma and had a great lunch. Joe pulled one of the cameras that had 1100 pics and we scanned through some of them. What we saw looked great! Then there was the camera from the team that forgot to clear the cameras memory before flight and left dorm video on the memory card. That will make an interesting semester presentation.

Here are the landing coord's for the record book...

W2OSU-11 N36ø07.590' W96ø34.240' O\`TH-D7:SPECIAL:ASTROn6 SPD=0 TRK=314 ALT=768 2006/12/09 17:22:29

BTW - Thanks for listening Steve (KC0YA). There's a beacon out there some where!

73 Harry KC5TRB

_’-·-’---

2841. Re: [GPSL] ASTRO-6 Recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 05:51:15 UTC
From: Mike Manes
Topic: 2840 Message: 2841

Congrats, Harry! Sri abt ur CW bcn - prolly a victim of PBC -- if it didn't break free a lot earlier (might explain Steve's QRU report). Of course, 10m is deader'n a hammer for last buncha years.

73 de Mike W5VSI

Harry M wrote:
>
>
> ASTRO-6 was launched by Dr. Andy Arena (KE5CAB) and Joe Conner (W2OSU)
> just after 0900 CST from the OSU West Lab High Bay. Just before launch I
> positioned myself near the predicted landing site. The flight path was
> almost as expected. It followed the predicted profile but surface & low
> level winds were higher than predicted and the ascent rate was higher
> than predicted. Andy believes in using the EOSS term... "Just a little
> more gas!" :)
>
> I rendevoused with Andy & Joe and soon after, we had burst at 96k ft. We
> spotted the chute and payloads at 3k ft and it passed overhead at 500
> ft. We had a .23 mi walk into snowy woods, full of 50-75 ft trees, along
> a creek following deer trails. Sure was pretty! All 10 of the silver
> camera payloads were strung horizontally across some 8 ft trees. Had it
> been a pine tree it would've looked like a Christmas tree with
> decorations. The tracking payload and chute were on the ground close by.
> My 10m beacon had been ripped loose and was gone. All that was left was
> the attachment cord and most of one side of the wire dipole that the
> cord was tied to.
>
> We stopped in the town of Yale, Oklahoma and had a great lunch.
> Joe pulled one of the cameras that had 1100 pics and we scanned through
> some of them. What we saw looked great! Then there was the camera from
> the team that forgot to clear the cameras memory before flight and left
> dorm video on the memory card. That will make an interesting
> semester presentation.
>
> Here are the landing coord's for the record book...
>
> W2OSU-11 N36ø07.590' W96ø34.240' O\`TH-D7:SPECIAL:ASTROn6 SPD=0 TRK=314
> ALT=768 2006/12/09 17:22:29
>
>
> BTW - Thanks for listening Steve (KC0YA). There's a beacon out there
> some where!
>
>

> 73 Harry KC5TRB
>
> _,_._,___
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2842. Re: [GPSL] ASTRO-6 Recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 13:20:28 UTC
From: Harry M
Topic: 2840 Message: 2842

Hi Mike.

Yep, I think the consensus is PBC. Examination at the landing site showed many signs of it. The cutdown wire was severed and a couple of the student capsules had minor damage. I watched my video last night as it made it's final descent and the beacon was not there. It was just a can oscillator with a K-ID chip, so no big loss.

73 Harry

> Congrats, Harry! Sri abt ur CW bcn - prolly a victim of PBC --

2843. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 17:01:45 UTC
From: Troy Campbell
Topic: 2820 Message: 2843

Paul,

Zack is already sending me some. I appreciate the offer.

Thanks!

73 de Troy, KC0MIC

PAUL VERHAGE <paul.verhage@...> wrote: Troy, if you need some nichrome, I can send you some.

I've forgotten where I ordered mine, but it was in a spool of 50 feet.
You only need three inches of the stuff, so I have way more than I'll
ever need.

I used a 6 volt camera battery for the power source. Is it a 2CR5
battery? It looks like two cells side by side.

Paul

>>> Brek Brixius <gofly2007@...> 12/7/2006 9:48 pm >>>
I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes
a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of
29 gauge on ebay pretty cheap. Thats what I am going to try.

Anybody have recommendations on a battery to power the burner?

Brek - KC0YOE

Troy Campbell <kc0mic@...> wrote:
All,

Where do you get nichrome wire? And what gage is usually used for
cutdown devices?

Thanks in advance.

73 de Troy, KC0MIC

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2844. Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 17:50:53 UTC
From: Troy Campbell
Topic: 2820 Message: 2844

Paul,

Harken back to a discussion you an I were having about burst height and ascent rate:

Here's a bit of information with some hints on page two. With information from the balloon manufacturer, we might be able to refine the formula enough for the on-line predictions.

Troy

http://www.wmo.ch/web/www/IMOP/publications/CIMO-Guide/Draft 7th edition/Part2-Ch10FinalEDITED.pdf

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Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo! Answers.

2845. RE: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 18:57:04 UTC
From: Rick von Glahn
Topic: 2820 Message: 2845

Just as an observation from a number of flights ...

I don't think there is ever going to be any way to accurately predict ascent rate and burst altitude.

Take a look at a few of these charts:

http://www.eoss.org/ansrecap/ar_100/recap84.htm

http://www.eoss.org/ansrecap/ar_100/recap85.htm

http://www.eoss.org/ansrecap/ar_100/recap86.htm

http://www.eoss.org/ansrecap/ar_100/recap97.htm

http://www.eoss.org/ansrecap/ar_130/recap102f.htm

http://www.eoss.org/ansrecap/ar_130/recap103_104d.htm two balloons compared one launched right after (45 min) the first

http://www.eoss.org/ansrecap/ar_130/recap105_106f.htm leaking balloon

http://www.eoss.org/ansrecap/ar_130/recap107_108.htm click through 2 compared, again two flight separated in time by 45 minutes.

The ascent rate of most of our balloons over Colorado fluctuates significantly and dramatically during the course of a flight. If you want to examine the raw data, it's posted on those web pages and you can run your own analysis.

Several years ago we were wondering about this and a scientist from NOAA, Cecilia Girz, made the obvious comment that atmospheric air flow isn't a flat phenomena. Winds don't move exactly parallel to the surface of the earth at a given velocity from a given azimuth. The move up and down and all around.

Checking the links for 103/104 and 107/108 you can really see and begin to believe this. Two balloon go through the same slice of sky 45 minutes apart and their ascent velocities are all over the place. When you look at only one balloon you start to think pinhole leak or some other explanation, but in the case of 103/104 you get pretty much exactly the same profile. However, one balloon is filled a little more and has a higher overall ascent rate. This difference almost makes the case when you look at the data.

Burst, not so much of an educated opinion here, just that each balloon undergoes a significantly different ride from inside the box to 100,000 feet. Some are touched by un-gloved human hands, some pickup minor debris on the ground. Some are overfilled and race into the sky, others take a more leisurely flight to the edge of space. Some pass through clouds, some don't. All this has to have some kind of impact on the integrity of the envelope. And

at 90,000 plus feet these minor alterations may start to have a significant roll in just when the balloon decides it's had enough torture and decides to succumb to the differential pressures.

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Sunday, December 10, 2006 10:51 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Burst height, ascent rate discontinuities

Paul,

Harken back to a discussion you an I were having about burst height and ascent rate:

Here's a bit of information with some hints on page two. With information from the balloon manufacturer, we might be able to refine the formula enough for the on-line predictions.

Troy

http://www.wmo.ch/web/www/IMOP/publications/CIMO-Guide/Draft 7th edition/Part2-Ch10FinalEDITED.pdf

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Need a quick answer? Get one in minutes from people who know. Ask your question on Yahoo!
<http://answers.yahoo.com/;_ylc=X3oDMTFvbGNhMGE3BF9TAzM5NjU0NTEwOARfcwMzOTY1NDUxMDMEc2VjA21haWxfdGFnbGluZQRzbGsDbWFpbF90YWcx> Answers.

2846. Re: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 19:17:24 UTC
From: Ralph Wallio, W0RPK
Topic: 2820 Message: 2846

Very similar to Rick's comments, also see
http://showcase.netins.net/web/wallio/ASCENT.html which
was put together an eon ago in an attempt to improve landing prediction accuracy. --w0rpk

2847. Re: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 20:51:45 UTC
From: Joe
Topic: 2820 Message: 2847

Thoughts from Joe at Near Space Sciences

Rick von Glahn wrote:

> {snip}
>
> Burst, not so much of an educated opinion here, just that each balloon
> undergoes a significantly different ride from inside the box to
> 100,000 feet. Some are touched by un-gloved human hands,

NEVER! Our flights are NEVER touched by un latex covered hands, And then only to un-roll the balloon out. And then we try our hardest to only touch the thick part of the balloon. And NEVER NEVER EVER slide the balloon period!

> some pickup minor debris on the ground.

Again,, we never inflate the balloon unless it is inside a building protected from the elements. No Wind, nothing..

A heavy blanket is laid on the ground,, than a tarp,, similar to the blue ones you always see. then on that a virgin piece of polyethylene sheeting/ this is the ONLY thing that touched the balloon.

> Some are overfilled and race into the sky, others take a
> more leisurely flight to the edge of space.

Our flights we always only went with 1 pound of extra lift.. no more,, no less.

> Some pass through clouds, some don't.

Can't control that unless you only launch into a totally cloud free sky.

> All this has to have some kind of impact on the integrity of the
> envelope.

All the above I would also think it would, the clouds,, maybe,,, but even any surface damage of any kind on the balloon,, is just like cutting glass, the glass may be 100 mil thick,, but it breaks where there is a .5 mil scratch in it.

That's why I always cringe whenever I see videos from other groups where you see three or four people pressing their hands against the balloon while it's filling to keep it stable. If that ever happened at one of our flights you would be asked to go home right then and there and never allowed at one of our flights again!

> And at 90,000 plus feet these minor alterations may start to have a
> significant roll in just when the balloon decides it's had enough
> torture and decides to succumb to the differential pressures.

As far as predicting burst altitude,, we have always been pretty close
as to our predictions, +- 2 or 3 K feet max.

>
>
> 73 -- Rick, N?KKZ
>

Joe WB9SBD Near Space Sciences

2848. RE: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 21:24:48 UTC
From: Troy Campbell
Topic: 2820 Message: 2848

Rick, Ralph,

I agree with all that. The reason I've persued it any further than my last re-write last summer is that I noticed a "tendency" for our flights filled the same way and launched in similiar conditions to lose about 200 fpm at a particular altitude. [Not consistant, but persistent]. I brought this up with Bill Byrd at ISU during a visit I'd had with them, and they stated that it was consistent and he that it was a change in drag. That puzzled me because, why should drag be higher when the air density is lower? {Beause the balloon is bigger?} Then I found it referenced in the PDF I'd attached earlier and it tweaked my curiosity again.

I don't think we'll get anything smooth, but if there is a drop in ascent rate at 1 or two altitudes, it wouldn't be hard to model it and test for it. And 200fpm is significant enough to pay attention to it. Can't hurt to simulate it some. I just know that ascent is not constant but that is how we calculate an initial path currently. I just think we might be able to curve fit a little better. It probably won't make much of a difference but a mile or two or five closer won't hurt.

Troy

Rick von Glahn <rick@...> wrote:
Just as an observation from a number of flights ...

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Take a look at a few of these charts:

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http://www.eoss.org/ansrecap/ar_100/recap97.htm

http://www.eoss.org/ansrecap/ar_130/recap102f.htm

http://www.eoss.org/ansrecap/ar_130/recap103_104d.htm two balloons compared one launched right after (45 min) the first

http://www.eoss.org/ansrecap/ar_130/recap105_106f.htm leaking balloon

http://www.eoss.org/ansrecap/ar_130/recap107_108.htm click through 2 compared, again two flight separated in time by 45 minutes.

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73 -- Rick, N?KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Sunday, December 10, 2006 10:51 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Burst height, ascent rate discontinuities

Paul,

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Here's a bit of information with some hints on page two. With information from the balloon manufacturer, we might be able to refine the formula enough for the on-line predictions.

Troy

http://www.wmo.ch/web/www/IMOP/publications/CIMO-Guide/Draft 7th edition/Part2-Ch10FinalEDITED.pdf

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2849. Re: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 21:24:31 UTC
From: Mark Conner
Topic: 2820 Message: 2849
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2850. Re: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 21:37:03 UTC
From: Troy Campbell
Topic: 2820 Message: 2850

We pretty much just take 2k ft from the published altitude from Kaymont's chart and that get's us pretty close to the burst height. If you have a methodolgy for determining burst height more definitively, I sure would like to include in the in the on-line flight prediction system. And I'd bet the Rick would like to see it too.

I don't think we'll start ejecting people permanently for messing up though.
A) It would be our fault for not training them.
B) We'd be out of people pretty quickly.

Troy

Joe <nss@...> wrote: Thoughts from Joe at Near Space Sciences

Rick von Glahn wrote:
{snip}
Burst, not so much of an educated opinion here, just that each balloon undergoes a significantly different ride from inside the box to 100,000 feet. Some are touched by un-gloved human hands,

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some pickup minor debris on the ground.

Again,, we never inflate the balloon unless it is inside a building protected from the elements. No Wind, nothing..

A heavy blanket is laid on the ground,, than a tarp,, similar to the blue ones you always see. then on that a virgin piece of polyethylene sheeting/ this is the ONLY thing that touched the balloon.

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That's why I always cringe whenever I see videos from other groups where you see three or four people pressing their hands against the balloon while it's filling to keep it stable.

If that ever happened at one of our flights you would be asked to go home right then and there and never allowed at one of our flights again!

And at 90,000 plus feet these minor alterations may start to have a significant roll in just when the balloon decides it's had enough torture and decides to succumb to the differential pressures.

As far as predicting burst altitude,, we have always been pretty close as to our predictions, +- 2 or 3 K feet max.

73 -- Rick, N?KKZ

Joe WB9SBD Near Space Sciences

Cheap Talk? Check out Yahoo! Messenger's low PC-to-Phone call rates.

2851. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 21:43:35 UTC
From: Zack Clobes
Topic: 2820 Message: 2851

It went out Thursday or Friday - kind of lost track of time.

Zack

Troy Campbell wrote:
>
> Paul,
>
> Zack is already sending me some. I appreciate the offer.
>
> Thanks!
>
> 73 de Troy, KC0MIC
>
> */PAUL VERHAGE <paul.verhage@...>/* wrote:
>
> Troy, if you need some nichrome, I can send you some.
>
> I've forgotten where I ordered mine, but it was in a spool of 50
> feet.
> You only need three inches of the stuff, so I have way more than I'll
> ever need.
>
> I used a 6 volt camera battery for the power source. Is it a 2CR5
> battery? It looks like two cells side by side.
>
> Paul
>
> >>> Brek Brixius <gofly2007@...
> <mailto:gofly2007%40yahoo.com>> 12/7/2006 9:48 pm >>>
> I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes
> a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of
> 29 gauge on ebay pretty cheap. Thats what I am going to try.
>
> Anybody have recommendations on a battery to power the burner?
>
> Brek - KC0YOE
>
>
> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>> wrote:
> All,
>
> Where do you get nichrome wire? And what gage is usually used for
> cutdown devices?
>

> Thanks in advance.
>
> 73 de Troy, KC0MIC
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com <http://mail.yahoo.com>
>
> ---
> Need a quick answer? Get one in minutes from people who know. Ask your
> question on Yahoo! Answers.
>
>
> ---
> Any questions? Get answers on any topic at Yahoo! Answers
> <http://answers.yahoo.com/;_ylc=X3oDMTFvbGNhMGE3BF9TAzM5NjU0NTEwOARfcwMzOTY1NDUxMDMEc2Vj
A21haWxfdGFnbGluZQRzbGsDbWFpbF90YWcx>.
> Try it now.
>

2852. Re: [GPSL] Burst height, ascent rate discontinuities

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 22:18:31 UTC
From: Joe
Topic: 2820 Message: 2852

All we do is crunch the numbers.

Take total lift, balloon and positive lift included. and convert that
into cuft of gas needed to provide that amount of lift.

divide that number by the volume of the balloon at burst. this will
give you a percentage number.

find what level of the earth atmosphere matched this percentage,, and
that's your burst altitude. plus or minus say 2 K

has worked every time for all of our flights.

Joe

Troy Campbell wrote:

> We pretty much just take 2k ft from the published altitude from
> Kaymont's chart and that get's us pretty close to the burst height.
> If you have a methodolgy for determining burst height more
> definitively, I sure would like to include in the in the on-line
> flight prediction system. And I'd bet the Rick would like to see it too.
>
> I don't think we'll start ejecting people permanently for messing up
> though.
> A) It would be our fault for not training them.
> B) We'd be out of people pretty quickly.
>
> Troy
>
> Joe <nss@...> wrote:
>
> Thoughts from Joe at Near Space Sciences
>
> Rick von Glahn wrote:
>
>> {snip}
>>
>> Burst, not so much of an educated opinion here, just that each
>> balloon undergoes a significantly different ride from inside the
>> box to 100,000 feet. Some are touched by un-gloved human hands,
>
>
>
>
>
>
>

> NEVER! Our flights are NEVER touched by un latex covered hands,
> And then only to un-roll the balloon out. And then we try our
> hardest to only touch the thick part of the balloon. And NEVER
> NEVER EVER slide the balloon period!
>
>> some pickup minor debris on the ground.
>
>
>
> Again,, we never inflate the balloon unless it is inside a
> building protected from the elements. No Wind, nothing..
>
> A heavy blanket is laid on the ground,, than a tarp,, similar to
> the blue ones you always see. then on that a virgin piece of
> polyethylene sheeting/ this is the ONLY thing that touched the
> balloon.
>
>> Some are overfilled and race into the sky, others take a
>> more leisurely flight to the edge of space.
>
>
>
>
> Our flights we always only went with 1 pound of extra lift.. no
> more,, no less.
>
>> Some pass through clouds, some don't.
>
>
> Can't control that unless you only launch into a totally cloud
> free sky.
>
>> All this has to have some kind of impact on the integrity of the
>> envelope.
>
>
>
> All the above I would also think it would, the clouds,,
> maybe,,, but even any surface damage of any kind on the
> balloon,, is just like cutting glass, the glass may be 100 mil
> thick,, but it breaks where there is a .5 mil scratch in it.
>
> That's why I always cringe whenever I see videos from other
> groups where you see three or four people pressing their hands
> against the balloon while it's filling to keep it stable. If that
> ever happened at one of our flights you would be asked to go home
> right then and there and never allowed at one of our flights again!
>
>> And at 90,000 plus feet these minor alterations may start to have
>> a significant roll in just when the balloon decides it's had

>> enough torture and decides to succumb to the differential pressures.
>
>
>
>
> As far as predicting burst altitude,, we have always been pretty
> close as to our predictions, +- 2 or 3 K feet max.
>
>>
>> 73 -- Rick, N?KKZ
>
>
> Joe WB9SBD Near Space Sciences
>
>
> ---
> Cheap Talk? Check out
> <http://us.rd.yahoo.com/mail_us/taglines/postman8/*http://us.rd.yahoo.com/evt=39663/*htt
p://voice.yahoo.com>
> Yahoo! Messenger's low PC-to-Phone call rates.
>

2853. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 22:31:59 UTC
From: Brek Brixius
Topic: 2820 Message: 2853

Thanks Mike. I'll check out those batteries.

The crimp suggestion is great too - something I hadn't thought of and that will likely save me some frustration when I'm ready to assemble the cutdown. I live in a small community where shops are limited and many are closed on weekends. In most cases I can't just run out and grab a part when those unforseen events pop up.

Thanks again.
Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

I use two CR123 LiSO2 cells in series for 250# nylon line, and three of
'em for 500# line. You must keep circuit resistance to a minimum, so
use a 5A rated contact relay and no more than about 3 ft of #16-2 cord
between the battery and the burner. This will give you a good cut under
tension in about 4 seconds. If you limit burner activation to 10 secs
per shot, you can get about 10 shots out of a fresh set of batts.

EOSS parachutes have a pouch sewn into the inner surface of the 'chute
canopy to carry the battery/relay pack. The relay coil is driven thru
a buncha feet of #28-2 cord from the command receiver/decoder hung at
the bottom of the shroud lines. Make sure to provide plenty of slack in
the wire to accommodate nylon stretch under tension.

Terminating the NiCr wire to the Cu burned cord conductors can be tedious,
since NiCr (basically stainless steel) doesn't tin easily. I used to
use silver solder with a real nasty flux after abrading the NiCr wire
to get a fair solder joint. But lately, I've adopted a crimp technique
that seems to provide a good mechanical joint and can be soldered using
the foregoing method. Get some hobby brass tubing just large enough to
slip over the paired NiCr and Cu conductors and crimp it tight using
vise grip pliers. Then solder.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes
> a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of
> 29 gauge on ebay pretty cheap. Thats what I am going to try.
>
> Anybody have recommendations on a battery to power the burner?
>
> Brek - KC0YOE
>
>

> */Troy Campbell <kc0mic@...>/* wrote:
>
> All,
>
> Where do you get nichrome wire? And what gage is usually used for
> cutdown devices?
>
> Thanks in advance.
>
> 73 de Troy, KC0MIC
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
> ---
> Need a quick answer? Get one in minutes from people who know. Ask your
> question on Yahoo! Answers
> <http://answers.yahoo.com/;_ylc=X3oDMTFvbGNhMGE3BF9TAzM5NjU0NTEwOARfcwMzOTY1NDUxMDMEc2Vj
A21haWxfdGFnbGluZQRzbGsDbWFpbF90YWcx>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
Have a burning question? Go to Yahoo! Answers and get answers from real people who know.

2854. ASTRO-6 Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-10 23:06:02 UTC
From: Harry M
Topic: 2854 Message: 2854

Joe Conner W2OSU has posted several of the teams flight pics.
There will be more to come.

http://astro_wx.mae.okstate.edu/ASTRO-06/ASTRO_06_pics/

2855. Re: [GPSL] Nichrome wire

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-11 01:53:02 UTC
From: Troy Campbell
Topic: 2820 Message: 2855

Thanks Zack!

TMC

Zack Clobes <zclobes@...> wrote: It went out Thursday or Friday - kind of lost track of time.

Zack

Troy Campbell wrote:
Paul,

Zack is already sending me some. I appreciate the offer.

Thanks!

73 de Troy, KC0MIC

PAUL VERHAGE <paul.verhage@...> wrote:
Troy, if you need some nichrome, I can send you some.

I've forgotten where I ordered mine, but it was in a spool of 50 feet.
You only need three inches of the stuff, so I have way more than I'll
ever need.

I used a 6 volt camera battery for the power source. Is it a 2CR5
battery? It looks like two cells side by side.

Paul

>>> Brek Brixius <gofly2007@...> 12/7/2006 9:48 pm >>>
I'm reading Paul's book chapter 6 - NS6 Recovery Systems. It describes
a cutdown that uses 3 inches of 30 gauge nichrome. I found 40 feet of
29 gauge on ebay pretty cheap. Thats what I am going to try.

Anybody have recommendations on a battery to power the burner?

Brek - KC0YOE

Troy Campbell <kc0mic@...> wrote:
All,

Where do you get nichrome wire? And what gage is usually used for
cutdown devices?

Thanks in advance.

73 de Troy, KC0MIC

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question on Yahoo! Answers.

Any questions? Get answers on any topic at Yahoo! Answers. Try it now.

Access over 1 million songs - Yahoo! Music Unlimited.

2856. FW: FW: [GPSL] Launched All States

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-13 17:47:40 UTC
From: Kaiser, Deborah
Topic: 2856 Message: 2856
Attachments: 2 described; binary payloads are missing from this source WARC

Near Space Ventures has launched from 3 states...MO, KS and IA.

Deb Kaiser - W0DLK

Keith Kaiser - WA0TJT

Troy Campbell - KC0MIC

Cindy Campbell - KC0RRW

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Wednesday, December 06, 2006 8:58 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Launched All States

I've started a Launched All States page on my web site. I only have a few listings. If you've launched from more than one state, could you email me the states you've launched from?

Thanks,
Paul

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you have received this electronic mail message in error, please contact
us immediately by electronic mail at
emailnotification@americancentury.com and destroy the original and all
copies of this transmission (including any attachments).

Thank you.

2857. ORB & Google Earth

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-15 03:39:28 UTC
From: Harry M
Topic: 2857 Message: 2857

I have uploaded Google Earth Placemark files to the ORB "FILES" area.
Each of these will display the flight path for each respective flight.

If you have Google Earth installed on your computer, click on the Placemark and it will fly you to a location and display that flight. If you would like to install Google Earth and have high speed internet, see the last paragraph below.

For those of you that do not have high speed internet or Google Earth, I have uploaded a picture of all the flights. The .tif is better quality than the .jpg.

GOOGLE EARTH

Google Earth streams the world over wired and wireless networks enabling users to virtually go anywhere on the planet and see places in photographic detail. This is not like any map you have ever seen. This is a 3D model of the real world, based on real satellite images combined with maps, guides to restaurants, hotels, entertainment, businesses and more. You can zoom from space to street level instantly and then pan or jump from place to place, city to city, even country to country.

Get Google Earth. Put the world in perspective.
http://earth.google.com

Happy Holidays!
73 Harry KC5TRB

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2858. Re: [Ballooning] ANSR-32 Thursday prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-16 05:42:07 UTC
From: Mike Manes
Topic: 2858 Message: 2858

Hi Joe,

Bill 'ELK is is acknowledged Grandpa of ARHAB. He's celebrating the 20th anniversary of his first flight this summer from hid old home QTH in OH. Bill does deserve credit for inspiring ARHAB in the US.

Anyway, Ma Nature giveth and taketh away ... so keep close tabs on those models and forecasts! Easterlies at any altitude that we can hope for are oddities in the winter.

73 de Mike W5VSI

Joe Crawford wrote:
> Yeah, I'm glad the easterly wind is there. I'm just about to do
> another prediction and really hoping that it does come back west. The
> GFS data doesn't go all the way up so that part is really uncertain
> but I hope it materializes. The blended data doesn't help this
> weekend due to a front predicted for tonight.
>
> I saw Bill's name on the BT about page and thought about adding his
> name to the list but didn't want it to turn into an emmy awards
> ceremony. I did want to say thanks to some of the people who make it
> possible; something I realized that I hadn't done before.
>
> Joe
>
> On 12/15/06, Mike Manes <manes@...> wrote:
>> Hi Joe,
>>
>> It's interesting to see that upper-level easterly at THIS time of year.
>> Without that, your recovery chase would be a whole lot longer!
>>
>> Bill Brown WB8ELK also deserves credit for developing the core algorithms
>> used in BalloonTrak since back in the '80s. Rick has done a FB job
>> with enhancements, including downloading and parsing online RAOB and
>> forecast winds, a nice GUI interface and several other features.
>>
>> 73 de Mike W5VSI, EOSS
>>
>> Joe Crawford wrote:
>> > Hello Everyone,
>> >
>> > The high winds have continued to be predicted. Here is the projected
>> > balloon path
>> >
>> > Launch Parameters

>> > Location: Gila Bend
>> > Max Winds: 111 mph @ 39.616 ft
>> > Burst: 115000 ft
>> > Ascent: 1200 fpm
>> > Descent: 1500 fpm
>> >
>> >
>> > Bearing: 70.1º
>> > Range: 74.7 Mi
>> > Map: Acme
>> >
>> <http://www.acme.com/mapper/?lat=33.3133547203118&long=-111.506081166974&scale=16&theme
=Topo&width=6&height=4&dot=Yes>
>>
>> >
>> > Attached is a JPEG of the projected flight.
>> > Thanks to EOSS and Rick vonGlahn, N0KKZ for Balloon Track! Without
>> > them, predictions woudn't be nearly so easy or accurate.
>> > Thanks to Adam Schneider for gpsvisualizer.com
>> > <http://gpsvisualizer.com> which draws the pretty maps for me.
>> >
>> >
>> >
>> >
>> --
>> >
>>
>> --
>> Mike Manes manes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so." A.
>> Einstein
>>
>>
>>
>>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2859. FCC drops Morse requirement for HF privileges

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-16 16:02:45 UTC
From: Mark Conner
Topic: 2859 Message: 2859
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2860. Re: [Ballooning] ANSR-32 Altitude Record

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-17 02:29:49 UTC
From: Mike Manes
Topic: 2860 Message: 2860

Well done, Mike, Jack et al! And that was a snappy recovery as well.
Glad the PVC nozzle adapter worked well for you.

73 es BZ de Mike W5VSI

mgray@... wrote:
> ANSR now hold the 2006 High Altitude Record with a flight to 117127'.
> We'll see if it holds until the end of the year or if another group flys
> higher. We also take the #10 spot all time for altitude.
>
> Great job by the group. Recovery is underway.
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
>
> Yahoo! Groups Links
>
>
>

>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2861. Re: [GPSL] ANSR-32 Altitude Record

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-19 22:56:48 UTC
From: Dominick Marrone
Topic: 2860 Message: 2861

Congratulations!

I'm looking forward to reading your technical brief about this balloon mission on your website.

73
Dominick Marrone KC2PXA
JVRIL-SCIENCE

Mike Manes <manes@...> wrote:
Well done, Mike, Jack et al! And that was a snappy recovery as well.
Glad the PVC nozzle adapter worked well for you.

73 es BZ de Mike W5VSI

mgray@... wrote:
> ANSR now hold the 2006 High Altitude Record with a flight to 117127'.
> We'll see if it holds until the end of the year or if another group flys
> higher. We also take the #10 spot all time for altitude.
>
> Great job by the group. Recovery is underway.
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,

>
> Moderator, Ballooning
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2862. The ultimate method of retrieving payloads in high trees

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-20 01:11:17 UTC
From: wb8elk@aol.com
Topic: 2862 Message: 2862

This system is useful even for payloads caught in the Redwoods:

http://www.antennalaunchers.com/antlaunching.html
(http://www.antennalaunchers.com/antlaunching.html)

Lots of interesting links follow at the end of that webpage.

Also for those wanting to build a slingshot fishing reel launcher:

_http://www.arsqrp.com/ars/pages/back_issues/1998_text/0698_text/hylaunch.html
_
(http://www.arsqrp.com/ars/pages/back_issues/1998_text/0698_text/hylaunch.html)

- Bill WB8ELK

2863. Ballooning Groups

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-20 02:00:34 UTC
From: Joe
Topic: 2863 Message: 2863

Has anyone ever made a map of the locations of all the balloon groups?

I think it might be interesting to see where everyone is located in the country.

Joe

2864. Re: [GPSL] Ballooning Groups

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-20 03:08:56 UTC
From: mgray@ess-us.com
Topic: 2863 Message: 2864

As usual, Ralph has a great list of information.

http://showcase.netins.net/web/wallio/ARHABlinks.htm

There isn't a map, but all the location information is there.

On Tue, 19 Dec 2006, Joe wrote:

> Has anyone ever made a map of the locations of all the balloon groups?
>
> I think it might be interesting to see where everyone is located in the
> country.
>
> Joe
>
>
>
> Yahoo! Groups Links
>
>
>
>

2865. Re: [GPSL] The ultimate method of retrieving payloads in high trees

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-21 15:52:53 UTC
From: PAUL VERHAGE
Topic: 2862 Message: 2865

The retrieval system we used on my first flight was a chain saw.

Paul

>>> <wb8elk@...> 12/19/06 6:11 PM >>>
This system is useful even for payloads caught in the Redwoods:

http://www.antennalaunchers.com/antlaunching.html
(http://www.antennalaunchers.com/antlaunching.html)

Lots of interesting links follow at the end of that webpage.

Also for those wanting to build a slingshot fishing reel launcher:

_http://www.arsqrp.com/ars/pages/back_issues/1998_text/0698_text/hylaunch.html
_
(http://www.arsqrp.com/ars/pages/back_issues/1998_text/0698_text/hylaunch.html)

- Bill WB8ELK

2866. Re: [GPSL] The ultimate method of retrieving payloads in high trees

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-21 18:13:55 UTC
From: nss@mwt.net
Topic: 2862 Message: 2866

> The retrieval system we used on my first flight was a chain saw.
>
> Paul

We had some still un-known person climb up 30 to 40 foot in this tree!

Joe
>
>>>> <wb8elk@...> 12/19/06 6:11 PM >>>
> This system is useful even for payloads caught in the Redwoods:
>
> _http://www.antennalaunchers.com/antlaunching.html_
> (http://www.antennalaunchers.com/antlaunching.html)
>
> Lots of interesting links follow at the end of that webpage.
>
> Also for those wanting to build a slingshot fishing reel launcher:
>
>
> _http://www.arsqrp.com/ars/pages/back_issues/1998_text/0698_text/hylaunch.html
> _
> (http://www.arsqrp.com/ars/pages/back_issues/1998_text/0698_text/hylaunch.html)
>
>
> - Bill WB8ELK
>
>
>
>
>

2867. WB8ELK-12 status report and updated landing site prediction

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-23 23:27:51 UTC
From: wb8elk@aol.com
Topic: 2867 Message: 2867

The balloon keeps going up at about 500 ft/min even after balloon sunset.
I'm at a total loss of explanation why it's doing that considering the past 4 or
5 flights with similar nozzle lift and payload weights stopped dead in their
tracks (ascent-rate) at sunset.

Based on the current ascent rate, I estimate the balloon will loop briefly
to the west and then south as it get higher and would land about 40 miles east
of Chattanooga along the TN/GA line near Blue Ridge, GA at around 7 pm
EST....although there is limited data on the winds above 100,000 feet available so
this is only a rough guess.

It appears that the styrofoam box I used (scavenged from an old ozonesonde)
seems to be keeping things fairly warm inside...it's 2 inches of foam and
sealed pretty well.

- Bill WB8ELK

2868. WB8ELK balloon position is now showing the exact touchdown point near Murphy NC

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-24 05:00:10 UTC
From: wb8elk@aol.com
Topic: 2868 Message: 2868

Turns out the payload landed less than a mile (Peachtree, NC just east of Murphy) from Eddie WD4JEM's father (K4AIH) who was able to hear the packets with his HT from inside his house (with a hairpin antenna no less). Also Bob Grove W8JHD lives about 1.5 miles away on the other side of Mission Mountain and could hear it strongly as well.

As we were discussing where it might be I received an email saying it was now reporting the actual position on FindU and it appears to be right on the peak of the mountain...probably up in a tree. Bob W8JHD is going to drive up the mountain tomorrow to try to get a visual on it.

Flight statistics:

Peak Altitude: 97,562 feet
Time Aloft: 4 hrs 2 minutes (launch: 2032z - landing 0034z)
Downrange: 155.5 miles at 80 degrees from launchsite

Landing site coordinates:

35d 05.04m
83d 56.54m

Launchsite coordinates:

34d 43.50m
86d 38.74m

73s de Bill WB8ELK

PS:

1500 gram balloon (Scientific Sales)
Flight train weight: 2lb 2oz
Nozzle lift: 2lb 12oz
Free lift: 10 oz
parachute: 36" dia

2869. WB8ELK balloon has been recovered from the tree

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-24 21:00:21 UTC
From: wb8elk@aol.com
Topic: 2869 Message: 2869

It turns out that HiBall-10 landed less then a mile from Eddie Foust's WD4JEM father's place (Jim K4AIH)....K4AIH alerted local hams who went out on a search today.

Also Eddie had alerted Bob Grove W8JHD in Brasstown, NC who drove out early this morning and got close but had to turn back due to heavy fog.

Later in the morning Edwin Flowers KG4LVO and Marty Clark KG4WPV of Andrews, NC went on the search using nothing but HT's and a small beam as they did not have APRS equipment or the balloon's final location as reported on Findu. This is a challenging effort due to only 1 second transmissions every 30 seconds on a very busy APRS frequency.

http://map.findu.com/wb8elk-12 (http://map.findu.com/wb8elk-12)

They walked up a private road owned by Jack Wimpy that took them to the top of Mission Mountain where the signal got strong enough to be heard without an antenna on the HT....They looked up to see it right on top of the peak of the mountain about 50 feet or more up in a tree. Marty KG4WPV decided they weren't going to leave empty-handed so he climbed clear to the top and pulled it down.

My thanks to all who participated in the chase,

73s de Bill WB8ELK

2870. Re: [GPSL] WB8ELK balloon has been recovered from the tree

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-25 05:38:36 UTC
From: Mike Manes
Topic: 2869 Message: 2870

Congrats, Bill!

This is why EOSS always carries an independent CW/DF beacon on every
flight. It's saved the day more times than I can remember. At 1.1 lb,
and serving as a cutdown command receiver half the time, it's worth
its weight in gold.

73 de Mike W5VSI

PS: Any luck finding those Honeywell pressure transducers?

wb8elk@... wrote:
> It turns out that HiBall-10 landed less then a mile from Eddie
> Foust's WD4JEM father's place (Jim K4AIH)....K4AIH alerted local hams
> who went out on a search today.
>
> Also Eddie had alerted Bob Grove W8JHD in Brasstown, NC who drove out
> early this morning and got close but had to turn back due to heavy fog.
>
> Later in the morning Edwin Flowers KG4LVO and Marty Clark KG4WPV
> of Andrews, NC went on the search using nothing but HT's and a small
> beam as they did not have APRS equipment or the balloon's final location
> as reported on Findu. This is a challenging effort due to only 1 second
> transmissions every 30 seconds on a very busy APRS frequency.
>
> http://map.findu.com/wb8elk-12
>
> They walked up a private road owned by Jack Wimpy that took them to the
> top of Mission Mountain where the signal got strong enough to be heard
> without an antenna on the HT....They looked up to see it right on top of
> the peak of the mountain about 50 feet or more up in a tree. Marty
> KG4WPV decided they weren't going to leave empty-handed so he climbed
> clear to the top and pulled it down.
>
> My thanks to all who participated in the chase,
>
> 73s de Bill WB8ELK
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2871. Re: [GPSL] WB8ELK balloon has been recovered from the tree

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-25 22:38:38 UTC
From: wb8elk@aol.com
Topic: 2869 Message: 2871

Hi Mike,

I usually do fly a backup beacon....but this flight was very weight constrained to attempt the sunset float so I had to rely on a single transmitter. A backup beacon is highly recommended to those considering a first launch. It was the primary way that the recent balloon flown from Kansas by Pete Sias and the University was found days later by Mark KA9SZX in Illinois (in a foot of snow) since the APRS battery had long died and the GPS lost lock before it landed. His beacon was a keyed 10 meter clock oscillator with a 2m harmonic (antenna resonant on 2m)...not much power on 2m (about 2 mW) but very effective.

73s de Bill WB8ELK

2872. APRS Settings

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-26 22:47:22 UTC
From: nssdz
Topic: 2872 Message: 2872

Hi All,

A question was asked and so far all that I have asked really didn't have a solid answer, so Bill ELK suggested to see what everyone thought here.

When setting up the beacon for the transmit of the APRS signal,, with all the changes recently made,, what is the Best string to write to the unit?

ya know withe WIDE and all that?

Joe WB9SBD

2873. Re: [GPSL] APRS Settings

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-26 23:57:43 UTC
From: Harry M
Topic: 2872 Message: 2873

Hi Joe,

The PATH all depends on what the APRS system load/coverage is like in a given area. Here are a couple links that should help.

http://www.ew.usna.edu/~bruninga/aprs/fix14439.html

http://wa8lmf.net/DigiPaths/index.htm

Happy Holidays!
73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

When setting up the beacon for the transmit of the APRS signal,, with all the changes recently made,, what is the Best string to write to the unit?

2874. Re: [GPSL] APRS Settings

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-27 01:44:23 UTC
From: Stephanie Steele
Topic: 2872 Message: 2874
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2875. Re: [GPSL] WB8ELK balloon has been recovered from the tree

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-27 02:56:08 UTC
From: Mike Manes
Topic: 2869 Message: 2875

Hi Bill,

We flew one of those "standard" CMOS clock oscillators on one of our
balloons. Unfortunately, it was on a "standard" used by SVGA monitors,
so we heard it EVERYWHERE once we in populated areas. And the 5th harmonic
power is pretty puny - tough hear after the payload is on the deck.

73 de Mike W5VSI

wb8elk@... wrote:
> Hi Mike,
>
> I usually do fly a backup beacon....but this flight was very
> weight constrained to attempt the sunset float so I had to rely on a
> single transmitter. A backup beacon is highly recommended to those
> considering a first launch. It was the primary way that the recent
> balloon flown from Kansas by Pete Sias and the University was found days
> later by Mark KA9SZX in Illinois (in a foot of snow) since the APRS
> battery had long died and the GPS lost lock before it landed. His beacon
> was a keyed 10 meter clock oscillator with a 2m harmonic (antenna
> resonant on 2m)...not much power on 2m (about 2 mW) but very effective.
>
> 73s de Bill WB8ELK
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2876. ANSR-33 DIY ZP floater Friday 29Dec06

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-28 14:46:04 UTC
From: Ralph Wallio, W0RPK
Topic: 2876 Message: 2876

ANSR-33 NG0X DIY Zero-Pressure balloon 48hr flight details at

http://www.ARHAB.org

http://www.kd7lmo.net/psk31.html

http://www.kd7lmo.net/qsl.html

There may be late breaking info about downlink bands, transmit intervals, launch time, etc.

Keep up-to-date with predicted track via:

http://adds.aviationweather.gov/winds/

Select FL420 (instead of default SFC)

Select 1800UTC Fri 29 Dec 2006

Select WIND SPEED and/or WIND STREAMLINES

Check later 6hr forecasts, e.g., 0000UTC Sat 30 Dec 2006, as well as forecasts for actual float
altitude, e.g., FL360.

Current forecasts predict track over TX, OK, KS/MO/IA, IL/WI, MI, PA/NY.

Please attempt to receive and report telemetry received via PSK31 on 14,070.45 (20m) and AFSK/FM
APRS telemetry on 50.620MHz (line-of-sight).

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2877. ANSR-33 floating at 21,200ft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-29 16:59:14 UTC
From: Ralph Wallio, W0RPK
Topic: 2877 Message: 2877

This changes the track prediction. ANSR-33 may get captured and orbit a low centered over SW NM.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2878. Reception from Huntsville AL

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-29 18:50:45 UTC
From: wb8elk@aol.com
Topic: 2878 Message: 2878

WB8ELK reception from Huntsville, AL

First report at 1836UTC from Huntsville, AL - WB8ELK on 20m.

kd7lmo
n s /Ie0ctc 23,¼Ðiwi ltte <t e
om Wi D ydsereR _e6matÜmkh@164d_ (mailto:e6matÜmkh@164d) 1.8dopt43.3F 7Dk
eeE SL wwwrkdl,o.nat

1842z:

EENutc 24oau33ft N31d06.29m W11. uE8tsoa _h@fd_ (mailto:h@fd) p o.EdeEs
.0F 81p
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2879. ANSR 33 still aloft at 0936UT - now over TX

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-30 11:11:41 UTC
From: Ralph Wallio, W0RPK
Topic: 2879 Message: 2879

Relay from the ANSR ballooning list:

Ben Gelb, KF4KJQ, is a member of the VWS Group, Vienna Wireless Society,
http://www.viennawireless.org/balloon/index.php. See his bio in the QRZ call sign look-up facility,
http://www.qrz.com/callsign.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Ben Gelb" <bgelb@...>
To: <ballooning@yahoogroups.com>
Sent: Saturday, December 30, 2006 3:45 AM
Subject: [Ballooning] Solid Print @ 0936utc in FM18

0936utc 18,386ft N28d42.66m A100d01.13m 95 ph@29d 1.2dop .3F 894p
QSL www.kd7lmo.net de AC7ZT

Signal is very good into Vienna, VA (FM18) ... at 4:36am local. (This MIT student has not yet recovered from term and returned to a sensible sleep schedule).

Seems its current location is southwest of San Antonio, Texas, so, back over the USA.

Good going guys! This is quite an accomplishment.

I will leave the computer up overnight, though I suspect the daytime crew will resume operations in a few hours. I will continue watching to see how it progresses. This is very exciting.

73,
Ben

2880. ANSR-33 DIY ZP is floating

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-30 12:29:54 UTC
From: Ralph Wallio, W0RPK
Topic: 2880 Message: 2880

An update on ZP floater ANSR-33 --

Floating track after launch was to the south well into Mexico at ~25kft. 20m closed at ~00UT with
no further fixes until 0936UT when Ben Gelb, KF4KJQ, captured a complete PSK-31/20m transmission in
Vienna VA.

ANSR-33 had turned east and then north in cyclonic winds around a low in NM/TX and, at the time of
this fix, was north of the Rio Grande River south of San Antonio floating at 18kft moving NNE at
95mph.

Please monitor 14.07045 (PSK-31) for normal 20m propagation and 50.62 (AFSK/FM APRS) in central TX
then Ok then KS and report any reception via http://www.kd7lmo.net/qsl.html.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
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2881. Re: [GPSL] ANSR-33 floating at 21,200ft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-30 17:30:45 UTC
From: Mary Van Winkle
Topic: 2877 Message: 2881

Ralph, Mary Van Winkle here I live in Oklahoma and was wondering the call sign and freq that I might be able to track from the northwest oklahoma area. If you wil send me the information.

Mary Van Winkle AD5QV

"Ralph Wallio, W0RPK" <W0RPK@...> wrote:
This changes the track prediction. ANSR-33 may get captured and orbit a low centered over SW NM.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

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Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2882. Re: [GPSL] ANSR-33 floating at 21,200ft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-30 17:37:52 UTC
From: mgray@ess-us.com
Topic: 2877 Message: 2882

Mary,

Information is posted at -

http://www.kd7lmo.net/

Hope you can hear it....

On Sat, 30 Dec 2006, Mary Van Winkle wrote:

> Ralph, Mary Van Winkle here I live in Oklahoma and was wondering the call sign and freq that I might be able to track from the northwest oklahoma area. If you wil send me the information.
>
> Mary Van Winkle AD5QV
>
> "Ralph Wallio, W0RPK" <W0RPK@...> wrote:
> This changes the track prediction. ANSR-33 may get captured and orbit a low centered over SW NM.
>
> TNX es 73 de Ralph Wallio, W?RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

2883. Re: [GPSL] ANSR-33 floating at 21,200ft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-30 17:50:16 UTC
From: Joe
Topic: 2877 Message: 2883

I just got back from work,,

has anyone heard anything at all from it?

joe

mgray@... wrote:

>Mary,
>
>Information is posted at -
>
>http://www.kd7lmo.net/
>
>Hope you can hear it....
>
>
>On Sat, 30 Dec 2006, Mary Van Winkle wrote:
>
>
>
>>Ralph, Mary Van Winkle here I live in Oklahoma and was wondering the call sign and freq that I might be able to track from the northwest oklahoma area. If you wil send me the information.
>>
>> Mary Van Winkle AD5QV
>>
>>"Ralph Wallio, W0RPK" <W0RPK@...> wrote:
>> This changes the track prediction. ANSR-33 may get captured and orbit a low centered over SW NM.
>>
>>TNX es 73 de Ralph Wallio, W?RPK
>>W0RPK@...
>>http://showcase.netins.net/web/wallio/
>>Hubbert's Peak - The Mother of all Perfect Storms
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>>Do You Yahoo!?
>>Tired of spam? Yahoo! Mail has the best spam protection around
>>http://mail.yahoo.com
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>Yahoo! Groups Links
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2884. Re: [GPSL] ANSR-33 floating at 21,200ft

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-30 17:55:11 UTC
From: Ralph Wallio, W0RPK
Topic: 2877 Message: 2884

Thanks Mary --

PSK-31 on 20m 14.070.45 and FM APRS on 50.62. If ANSR-33 is still floating we are estimating it to
be over OK. However, there have been a lot of stations not hearing anything on 20m this morning.
The last report was at 09:36UT (3amCST).

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2885. ARHAB flights 2006

Yahoo group: GPSL (2002 — 2008)
Date: 2006-12-31 21:20:52 UTC
From: Ralph Wallio, W0RPK
Topic: 2885 Message: 2885

ARHAB flights 2006

001] 07Jan06 VWS-3 VA
002] 08Jan06 SKYLAB KS
003] 21Jan06 UX-6 TN Univ of Tennessee
004] 11Feb06 ANSR-29 AZ
005] 14Feb06 HABET-L85 IA Iowa State Univ
006] 18Feb06 AFTI FRANCE
007] 24Feb06 RED-1 ME
008] 25Feb06 UX-7 TN Univ of Tennessee
009] 25Feb06 EOSS-101 CO
010] 04Mar06 HIBALL-8 AL
011] 06Mar06 SOLAR MI Grosse Pointe Academy
012] 18Mar06 EOS-1 NC
013] 01Apr06 CNNSP-05 NE
014] 01Apr06 CIBE-LF2 IA
015] 01Apr06 CNS-008 MO
016] 08Apr06 EOSS-102 CO
017] 08Apr06 CONHAB ND Concordia College
018] 09Apr06 UAH NSSTC AL Univ of Alabama-Huntsville
019] 09Apr06 TIGERCUB SC Clemson Univ
020] 15Apr06 UAH NSSTC AL Univ of Alabama-Huntsville
021] 22Apr06 ANSR-30 AZ
022] 22Apr06 EOSS-103 CO
023] 22Apr06 EOSS-104 CO
024] 22Apr06 TABEL-2 TN
025] 22Apr06 GRC POST632 2006A OH
026] 22Apr06 WV-4 WV
027] 22Apr06 UAH SPACE CLUB AL Univ of Alabama-Huntsville
028] 27Apr06 TAMU-1 TX Texas A&M Univ
029] 28Apr06 BRAQ 2006-1 PQ Canada
030] 29Apr06 K5IS TX
031] 06May06 NNU ID Northwest Nazarene Univ
032] 07May06 N0BKB/N0ORU 2006A IA
033] 08May06 RED-2 ME
034] 12May06 ARALA FRANCE
035] 13May06 PRSGC-5 PR Puetro Rico Space Grant
036] 20May06 NS-7 MD Maryland Space Grant
037] 20May06 ORB-20 OK
038] 23May06 ACES-4 TX Louisiana State Univ
039] 24May06 ACES-5 TX Louisiana State Univ
040] 26May06 HABET-L97 IA Iowa State Univ
041] 28May06 FITS2006 WA
042] 03Jun06 ANSR-31 AZ
043] 03Jun06 CP-01 POLAND

044] 08Jun06 NS-8 MD Maryland Space Grant
045] 10Jun06 BLANCHARD-1 PA PA Leadership Charter School
046] 10Jun06 TAYLOR IN Taylor Univ
047] 10Jun06 UX-8 TN Univ of Tennessee
048] 11Jun06 NSTAR-06A IA
049] 17Jun06 EOSS-105 CO
050] 17Jun06 EOSS-106 CO
051] 24Jun06 CNS-010 KS
052] 24Jun06 TAYLOR IN Taylor Univ
053] 28Jun06 NearSys 06B OR
054] 01Jul06 PRSGC-06 PR Puetro Rico Space Grant
055] 01Jul06 TABEL-3 TN
056] 01Jul06 CNNSP-06 NE
057] 08Jul06 MSGC/PRSGC MA Massachusetts Space Grant
058] 08Jul06 N0BKB/N0ORU 2006B IA
059] 08Jul06 N0BKB/N0ORU 2006C IA
060] 15Jul06 EOSS-107 CO
061] 15Jul06 EOSS-108 CO
062] 15Jul06 TVNSP TV06A ID
063] 16Jul06 N0BKB-N0ORU 2006D IA
064] 16Jul06 N0BKB/N0ORU 2006E IA
065] 22Jul06 KD4STH (UNO) NE University of Nebraska - Omaha
066] 22Jul06 CNS-011 MO
067] 22Jul06 EOS-2 ME
068] 23Jul06 TABEL-4 TN
069] 29Jul06 EOSS-109 CO
070] 29Jul06 EOSS-110 CO
071] 30Jul06 N0BKB/N0ORU 2006F IA
072] 30Jul06 N0BKB/N0ORU 2006G IA
073] 01Aug06 MSGC NS-9 MD Maryland Space Grant
074] 04Aug06 HABET L-98 IA Iowa State University
075] 05Aug06 CNS-012 KS GPSL2006
076] 05Aug06 CNNSP-07 KS GPSL2006
077] 05Aug06 EOSS-111 KS GPSL2006
078] 05Aug06 KD4STH KS GPSL2006
079] 05Aug06 ORB-21 KS GPSL2006
080] 05Aug06 WB8ELK KS GPSL2006
081] 05Aug06 TAYLOR KS GPSL2006 Taylor University
082] 07Aug06 NearSys 06F OR
083] 12Aug06 TAYLOR IN Taylor University
084] 19Aug06 FAR HORIZONS 1 IL Adler Planetarium
085] 26Aug06 HAPB-1 TX
086] 27Aug06 CIBE-3 IA
087] 09Sep06 BLT-22 TX
088] 10Sep06 Fox Hunt 2006 Netherlands
089] 13Sep06 HABET L-70 IA Iowa State University
090] 16Sep06 AFTI-2 France
091] 30Sep06 NS-10 MD University of Maryland
092] 30Sep06 KI4QVO GA
093] 30Sep06 ARBONET-1 TX

094] 01Oct06 EOSS-112 CO
095] 22OCt06 CNS-013 MO
096] 25Oct06 HABET L-99 IA Iowa State University
097] 04Nov06 GRC POST632 2006C OH
098] 04Nov06 NearSys 06H OR Oregon Inst of Tech with KD4STH
099] 07Nov06 Taylor IN Taylor University
100] 07Nov06 Taylor/Depauw IN Taylor & Depauw Universities
101] 11Nov06 BRAQ 2006-2 PQ Canada
102] 11Nov06 EOSS-113 CO
103] 11Nov06 UNV-Reno NV Univeristy of Nevada - Reno
104] 12Nov06 UAH Balloon-1 AL University of Alabama - Huntsville
105] 12Nov06 UAH Balloon-2 AL University of Alabama - Huntsville
106] 12Nov06 N1VG #1 CA
107] 19Nov06 Far Horizons 2 IL Adler Planetarium
108] 02Dec06 PRSGC-7 PR Puetro Rico Space Grant
109] 02Dec06 KWU/SSOK KS Kansas Wesleyan Univ with N0OY
110] 09Dec06 N0BKB/N0ORU #1 IA
111] 09Dec06 N0BKB/N0ORU #2 IA
112] 09Dec06 ASTRO-6 OK Oklahoma State University
113] 09Dec06 UNC SkyMiner NC University of NC - Charlotte
114] 16Dec06 ANSR-32 AZ
115] 17Dec06 UX-9 ICARUS 1/2 TN Univ of Tennessee
116] 23Dec06 WB8ELK HiBall-10 AL
117] 29Dec06 ANSR-33 AZ

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
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2886. 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 16:08:27 UTC
From: Ralph Wallio, W0RPK
Topic: 2886 Message: 2886

Ref's comments below.

Highest Altitude
---
[1]
117,127 16Dec06 ANSR-32
113,074 07Jan06 VWS-3
108,323 23May06 LaACES-04
106,183 04Aug06 HABET L-98
96,596 22Apr06 Explorer Post 632 2006A
94,397 13May06 PRSGC-5

[1] Flight disqualified by 24-notice rule:
118,011 22Apr06 WV-4

Longest Great Circle Distance

552.63 29Dec06 ANSR-33 (ES-OS ZP floater) [1]
[2]
178.79 04Mar06 WB8ELK HiBall-8
162.75 17Dec06 UTARC UX-9
155.20 23Dec06 WB8ELK HiBall-10

[1] ANSR-33 limited from 775.31mi by 2-hour telemetry rule
[2] GPA SD flight disqualified by web page info rule
400.24 07Mar06 Solar Tetroon SD-9 (Grosse Pointe Academy)

Flight Time Launch-to-Landing
---
[1]
[2]
8:24 29Dec06 ANSR-33 (ES-OS ZP floater) [1]
3:58 23Dec06 WB8ELK HiBall-10
3:04 04Mar06 WB8ELK HiBall-8

[1] ANSR-33 limited from 17:24 by 2-hour telemetry rule
[2] GPA SD flight disqualified by web page info rule
12:27 07Mar06 Solar Tetroon SD-9 (Grosse Pointe Academy)

UHF-VHF Telemetry Reception Distance

326.7 05Aug06 CNS-012 (GPSL2006) W?RPK
318.0 19Nov06 FAR HORIZONS II W?RPK
264.1 23Jul06 TABEL-4 KA8MID
256.7 01Jul06 CNNSP-06 W?RPK
163.8 01Apr06 CNNSP-05 W?RPK
126.9 02Dec06 KWU/SSOK/N?OY W?RPK

100.1 01Apr06 CIBE-LF2 W?RPK

HF <50MHz Telemetry Reception Distance

2,023 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KF4KJQ
1,803 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W4BGH
1,692 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WA8MTI
1,620 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KC9DOA
1,528 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KD7KST
1,523 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m N9FTC/4
1,506 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KC9GMW
1,478 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KF4KJQ
1,473 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WB8ELK
1,373 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m K?QVF
1,317 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W?RPK
1,260 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W7PSK
1,211 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KE3KZ
1,199 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KC5WMI
1,147 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W?JRT
1,124 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m N7RGS
1,102 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W6OSC
1,069 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m AC7ZG
1,020 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WA7QNA
900 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m K5TAO
854 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m K5PSB
701 25Feb06 UTARC UX-7 CW/30m W?RPK
134 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WB?SMX
134 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KD7VRB

Two-way QSO Distance

-- No entries --

Ref's comments:

--- I do not recall receiving a certificate or prize for winning the >50MHz telemetry reception
distance category in 2005 (via ORB-19). Did HABET (altitude), WB8ELK (flight distance and time),
KF4KJQ (HF telemetry distance via ANSR-28) or KC5TRB & KA9SZX (QSO distance via HABITAT SKYLAB)
receive anything? Telemetry and QSO honors were supposed to go to both the flight group and distant
participants.

--- ARHAB is both a ballooning and a communications challenge. Our contest results show interest
in all three ballooning categories, altitude, distance and time during 2005 and 2006. They are not
showing much interest in <50MHz telemetry reception distance (12-of-13 entries in 2005-2006 combined

were from me) or in QSO distance (only 3 entries in 2005 and none in 2006). ANSR and UTARC were the
only groups flying HF telemetry in 2005-2006. I haven't counted repeater/digipeater equipped
flights (that worked AOK) but it has to be very small number.

--- A few rules judgments could have gone the other way resulting in more flight disqualifications.
Closer judging of recovery efforts and adherence to flight and communications regulations is too
much work for one referee.

--- It is not clear to me what we are accomplishing with our annual contests. Is our level of
activity, or advancement of our state-of-the-art, or encouragement to experiment, or competitive
camaraderie significantly enhanced by annual contests beyond the value of our all-time record
keeping?

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2887. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 17:53:48 UTC
From: Joe
Topic: 2886 Message: 2887

Hi Ralph and the rest,, Happy New Year!

I have a few questions and comments on the below E Mail.

Ralph Wallio, W0RPK wrote:

>Ref's comments below.
>
>
>Highest Altitude
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>113,074 07Jan06 VWS-3
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>[1] Flight disqualified by 24-notice rule:
>118,011 22Apr06 WV-4
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>
What does the 24-notice rule mean?

>
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And what does the below mean? 2-hour telemetry rule? And web page info rule?

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>[1] ANSR-33 limited from 775.31mi by 2-hour telemetry rule
>[2] GPA SD flight disqualified by web page info rule
>400.24 07Mar06 Solar Tetroon SD-9 (Grosse Pointe Academy)
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>
>Flight Time Launch-to-Landing

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Ok, Please explain the disqualification's below of this class.
And This one we may have the record for. Yes it was before the days of GPS's remember we are one of the way back in the beginning old-timers. But there were many, MANY witnesses of the flight, many of you old-timers may even remember it! for many reasons. he he he. ugh!

It was launched at sunrise on dec 6th,, what year I honestly don't remember but it was precisely at 7 am,
The payload consisted of a in band and dual band 2 meter and 440 repeater, two meters and 440 inputs and 2 meter output.
And clock ossc beacons on EVERY band from 160 meters to 6 meters. so this baby had a signal coming out from it on EVERY band from 160 to 2 meters!
each band had a full sized dipole, made from ribbon cable. so it was two packages, the upper had the two and70cm receiver, (scanner) and it fed the audio from the receiver along down the ribbon cable to the transmitter box 130 feet below! This proved to be a mistake as we found out later. so this whole flight train from top of balloon to end of the lower dipole was close to 300 feet what a incredible thing to launch! i was sure glad we had absolutely dead calm winds at launch time.

Launch was un eventful. and soon people from all across the country were reporting the beacons. and making qso's through the repeater. This was before GPS's so positioning was purely by beam headings and triangulation. Launch site was from my home EN43xo

All progressed well this was also before the internet too, so the 40 meter net was up & running! we were getting reports from all over the midwest.

The rate of climb seemed right on nominal parameters by the reception reports and the people gaining access to the repeaters. The chase teams were in their usual waiting positions, somewhere down range near Madison,WI of course. waiting for it to come down and go and get it.

Position reports were coming in from locals as well as stations out on the fringes which of course were the most accurate. between all the stations reporting in those early days I bet we weren't too far off of the balloons location than we are now with the gps's. we just don't have altitude data.

Anyway this thing suddenly kicks into over drive and starts zooming past madison on a southeast heading. the chase crews take chase, and by the time they reach the state line of Illinois the balloon was like out pacing them by a factor of two, so they gave up the chase.

we got on the 40 meter net telling the people we have a runaway and to start organizing chase teams downrange. which many came out of the woodwork to give chase.

Ok we are thinking what's happening here. this thing should be on the ground soon if not already, yet the signal is strong and steady, a old time tell tale that the balloon is still inflated. it's now 11 am and still very strong signals. and we are starting to get some weird interference. were are hearing some voices in the background on the two meter downlink!

The two meter transmitter was locked on continuously, no cor board, anyway, the background voices are faint but clear. and getting stronger. what are they?

Actually it sounds like two different conversations in the background. what in the world? They are getting stronger.

position reports have the balloon over northeast suburbs of chicago, like 10 miles northwest of elgin. heading ESE.

we ask people on the repeater to hold the traffic so we can hear the other voices and see if we can figure them out.

They are getting up to about 25% deviation now and are quite easy to hear.

WOW! I know what that is! It's both WGN and WBBM am 720 and 780, both are HUGE signal transmitters in the northwest suburbs of chicago. The LONG 130 foot un shielded audio cable between the receiver and mic input of the transmitter was picking up the signals I'm guessing somewhat like a old crystal radio set! Oh well live and learn,, next time a rf link between the two or at least shielded cable!

Well at least we now knew the source of the mystery voices.

Well it's now Noon, and well past the expected flight time. We keep notifying Chicago center about the flight and they say they still see the reflector fairly well. so that's good.

conversations resume on the repeater. This is where we had an incredible QSO, the balloon was Over southeast Chicago, and a Station (who I do not recall or have a record of) but a station from Golden CO. called in, we made a QSO,, I thought WOW must be some duct or something that's over 900 miles from the balloon! thing is the best was yet to happen! about 15 minutes goes by and then a station from Virginia Beach VA. calls in! Holy Cow! over 700 miles away!

Now the best part was now the Colorado station calls back in and makes a contact with the virginia Beach Station!!!!!! ok Direct from Golden to Va Beach is 1596 MILES!!!! if you take the real path co to va via the balloon that's 1643 MILES!!!!! How's that for a record!? Yes there is no proof other than our memories, is there anyone else out there that remembers these conversations please let us know.

Anyway the balloon continues ese ward. And by all the position reports it is now crossing the IL and IN border. and continues on.

up here in EN43 we are still hearing it but it is getting weak, and hard to hear we tell the 40 meter net to have someone take over for us out there. Someone in Michigan volunteers. and we keep tabs on the thing via the 40 meter net. The crazy think hugs the IN and MI border and almost makes it to OH, then, yes this is December,, but it starts coming back!

It continues coming back, we start hearing it again from here and gratefully tank the MI station for taking over. we keep making contacts, and now WGN and WBBM start coming in again, and we expected this to happen again cuz it was getting close to them again.

It's getting close to sundown, and position reports have it right over Elgin IL. A buddy of mine Stu WB9UNX Lived near Elgin at the time, Went outside to get a possible visual. And THERE IT was! almost directly above his head, he is also an astronomer like myself and went and got his telescope and tried to see it.

Via the scope he could see the balloon,, but even through it it was still very small. he even took a picture of it through the scope. Then suddenly it vanished!

And we saw the telltale signs of falling payload. all the flutter and all that.

So the chase was on! We called Chicago center and told them it's on it's way, and they said they still see it, and it's going to be close.

How close no one ever expected!

Various FOX hunt crews from the chicago area got into the hunt. this runaway balloon was all the talk on 40 and from what I head on all the repeaters in the Chicago area. Its falling in a almost due east path.

Many teams are in the waiting, finally up here in EN43 we loose signal at 6:30PM,, for us that's a 11 and half hour flight, reports have it landing about 20 minutes later so total flight duration 11 Hours 50 Minutes missing the 12 hour mark by 10 minutes.

The ground hunt was ON! problem was,, all of the triangulation reports were placing the downed payload inside this HUGE fenced in area, with no way in.

Where was it? YIKES! it was inside OHARE! the busiest airport at the time in the country. We called Chicago Center and they said they saw it come all the ay down, and also figured that is was on the grounds. they made a call and had some security people meet one of the chase teams at agate and let only one of them in to retrieve the thing. They found it between two taxiways of American Airlines and Fed EX.

they got it, and brought the wayfarer home.

Like i said this was WAY before the internet , web pages, and GPS's,, but does this qualify for any records?

And how many of you old timers remember this crazy flight?

never did find out why it took so long for it to pop! but what a cool journey.

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No proof other than memories, but if anyone else can also remember the above story will that qualify for this incredible record?

Joe WB9SBD
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2888. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 18:34:41 UTC
From: Mark Garrett
Topic: 2886 Message: 2888
Attachments: 1 described; binary payloads are missing from this source WARC

Joe:

That was a wacky flight, one for sure for the new guys. But it looks like Ralph's records are for 2006 only, not for all times. Ralph will probably post an updated explanation of his notes.

Mark, KA9SZX

At 11:53 AM 1/1/2007, you wrote:

>Hi Ralph and the rest,, Happy New Year!
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>I have a few questions and comments on the below E Mail.
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>Ralph Wallio, W0RPK wrote:
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>
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.5.432 / Virus Database: 268.16.1/611 - Release Date: 12/31/2006
>12:47 PM

2889. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 19:11:25 UTC
From: Joe
Topic: 2886 Message: 2889

Ahh,, didn't know for 2006 h h eh duh?

Oh well,, hey but remember that crazy flight? man that was a long time ago wasn't it/

Joe

Mark Garrett wrote:

> Joe:
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> like Ralph's records are for 2006 only, not for all times. Ralph will
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>> hear.
>>
>> WOW! I know what that is! It's both WGN and WBBM am 720 and 780,

>> both are HUGE signal transmitters in the northwest suburbs of chicago.
>> The LONG 130 foot un shielded audio cable between the receiver and mic
>> input of the transmitter was picking up the signals I'm guessing
>> somewhat like a old crystal radio set! Oh well live and learn,, next
>> time a rf link between the two or at least shielded cable!
>>
>> Well at least we now knew the source of the mystery voices.
>>
>> Well it's now Noon, and well past the expected flight time. We keep
>> notifying Chicago center about the flight and they say they still see
>> the reflector fairly well. so that's good.
>>
>> conversations resume on the repeater. This is where we had an
>> incredible QSO, the balloon was Over southeast Chicago, and a Station
>> (who I do not recall or have a record of) but a station from Golden CO.
>> called in, we made a QSO,, I thought WOW must be some duct or
>> something that's over 900 miles from the balloon! thing is the best
>> was yet to happen! about 15 minutes goes by and then a station from
>> Virginia Beach VA. calls in! Holy Cow! over 700 miles away!
>>
>> Now the best part was now the Colorado station calls back in and makes a
>> contact with the virginia Beach Station!!!!!! ok Direct from Golden
>> to Va Beach is 1596 MILES!!!! if you take the real path co to va via
>> the balloon that's 1643 MILES!!!!! How's that for a record!? Yes
>> there is no proof other than our memories, is there anyone else out
>> there that remembers these conversations please let us know.
>>
>> Anyway the balloon continues ese ward. And by all the position reports
>> it is now crossing the IL and IN border. and continues on.
>>
>> up here in EN43 we are still hearing it but it is getting weak, and hard
>> to hear we tell the 40 meter net to have someone take over for us out
>> there. Someone in Michigan volunteers. and we keep tabs on the thing
>> via the 40 meter net. The crazy think hugs the IN and MI border and
>> almost makes it to OH, then, yes this is December,, but it starts
>> coming back!
>>
>> It continues coming back, we start hearing it again from here and
>> gratefully tank the MI station for taking over. we keep making
>> contacts, and now WGN and WBBM start coming in again, and we expected
>> this to happen again cuz it was getting close to them again.
>>
>> It's getting close to sundown, and position reports have it right over
>> Elgin IL. A buddy of mine Stu WB9UNX Lived near Elgin at the time, Went
>> outside to get a possible visual. And THERE IT was! almost directly
>> above his head, he is also an astronomer like myself and went and got
>> his telescope and tried to see it.
>>
>> Via the scope he could see the balloon,, but even through it it was
>> still very small. he even took a picture of it through the scope. Then

>> suddenly it vanished!
>>
>> And we saw the telltale signs of falling payload. all the flutter and
>> all that.
>>
>> So the chase was on! We called Chicago center and told them it's on
>> it's way, and they said they still see it, and it's going to be close.
>>
>> How close no one ever expected!
>>
>> Various FOX hunt crews from the chicago area got into the hunt. this
>> runaway balloon was all the talk on 40 and from what I head on all the
>> repeaters in the Chicago area. Its falling in a almost due east path.
>>
>> Many teams are in the waiting, finally up here in EN43 we loose signal
>> at 6:30PM,, for us that's a 11 and half hour flight, reports have it
>> landing about 20 minutes later so total flight duration 11 Hours 50
>> Minutes missing the 12 hour mark by 10 minutes.
>>
>> The ground hunt was ON! problem was,, all of the triangulation reports
>> were placing the downed payload inside this HUGE fenced in area, with no
>> way in.
>>
>> Where was it? YIKES! it was inside OHARE! the busiest airport at the
>> time in the country. We called Chicago Center and they said they saw it
>> come all the ay down, and also figured that is was on the grounds. they
>> made a call and had some security people meet one of the chase teams at
>> agate and let only one of them in to retrieve the thing. They found it
>> between two taxiways of American Airlines and Fed EX.
>>
>> they got it, and brought the wayfarer home.
>>
>> Like i said this was WAY before the internet , web pages, and GPS's,,
>> but does this qualify for any records?
>>
>> And how many of you old timers remember this crazy flight?
>>
>> never did find out why it took so long for it to pop! but what a cool
>> journey.
>>
>> > [1]
>> >[2]
>> >8:24 29Dec06 ANSR-33 (ES-OS ZP floater) [1]
>> >3:58 23Dec06 WB8ELK HiBall-10
>> >3:04 04Mar06 WB8ELK HiBall-8
>> >
>> >[1] ANSR-33 limited from 17:24 by 2-hour telemetry rule
>> >[2] GPA SD flight disqualified by web page info rule
>> >12:27 07Mar06 Solar Tetroon SD-9 (Grosse Pointe Academy)
>> >

>> >
>>
>> >Two-way QSO Distance
>> >--------------------
>> >-- No entries --
>> >
>> >
>> No proof other than memories, but if anyone else can also remember the
>> above story will that qualify for this incredible record?
>>
>> Joe WB9SBD
>> Near Space Sciences KB9KHO
>>
>> >
>> >TNX es 73 de Ralph Wallio, W?RPK
>> >W0RPK@... <mailto:W0RPK%40netINS.net>
>> >http://showcase.netins.net/web/wallio/
>> >Hubbert's Peak - The Mother of all Perfect Storms
>> >
>> >
>> >
>> >
>> >
>>
>>
>> No virus found in this incoming message.
>> Checked by AVG Free Edition.
>> Version: 7.5.432 / Virus Database: 268.16.1/611 - Release Date:
>> 12/31/2006 12:47 PM
>
>
>
>--
>
>
>
>No virus found in this outgoing message.
>Checked by AVG Free Edition.
>Version: 7.5.432 / Virus Database: 268.16.1/611 - Release Date: 12/31/2006 12:47 PM
>
>

2890. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 20:34:13 UTC
From: Ralph Wallio, W0RPK
Topic: 2886 Message: 2890

Joe --

2006 contest rules are at the bottom of our ARHAB Records page,
http://showcase.netins.net/web/wallio/ARHABrecords.htm. Rules for 2007 and beyond may be different.
Our ersatz conscripted ad hoc ARHAB august contest board will be discussing this ASAP:

Bill Brown, WB8ELK
Mark Conner, N9XTN
Michael Gray, KD7LMO
Mike Manes, W5VSI
Harry Mueller, KC5TRB
Stephanie Steele KC7DBA
Paul Verhage, KD4STH
Ralph Wallio, W0RPK

It is important to note that these rules apply only to our annual contests. They do not apply to
our all-time records. Required evidence of flight accomplishments from the distant past can submitted for our all-time records at any time. In our Records page RED is an all-time entry, BLUE
is an annual contest entry. In a couple of weeks all the 2006 entries will turn RED so that BLUE
can be used for our 2007 contest.

Now your questions:

-- What does the 24-notice rule mean?

It means I didn't proof-read close enough. The '24-hour' rule requires flights be announced a
minimum of 24-hours before flight. Announcement can be directly to our Balloon-Sked list and/or
sent to me for posting in our ARHAB Launch Announcements,
http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm.

-- And what does the below mean? 2-hour telemetry rule? And web page info rule?

Telemetry has to be received and reported (not just transmitted) at no more than 2-hour intervals.
When an interval exceeds 2-hours the flight ends for purposes of contest distance and time.

Detailed information about a contest listed flight has to be available in an announced web page
within 30-days after the flight.

-- Ok, Please explain the disqualification's below of this class. [snip]

There are two record posting possibilities in your story, flight time and any QSO distance. For
flight time we need the date, launch and landing time and a flight name. For QSO distance we need
QSL-card type info from both stations including their coordinates. This means you will have to dig
up the callsigns, contact both stations for any given QSO and ask them to send me the information
(e-mail is ok).

This would be an all-time record entry for which the 2006 contest rules do not apply.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2891. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 22:23:27 UTC
From: wb8elk@aol.com
Topic: 2886 Message: 2891

Hi Joe,

I think that's the same flight of yours that I witnessed pop over Stu's house in Elgin IL while I was visiting him.

73s de Bill WB8ELK

2892. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-01 22:58:25 UTC
From: Joe
Topic: 2886 Message: 2892

I didn't know you were there, It had to be it, but i don't remember you being there.

sadly i have no records of any of it. i don't even remember what year it was, the only reason i remember the day is that it was pear harbor day. but thats about it.

joe

wb8elk@... wrote:

> Hi Joe,
>
> I think that's the same flight of yours that I witnessed pop over
> Stu's house in Elgin IL while I was visiting him.
>
> 73s de Bill WB8ELK
>

2893. ANSR-33 Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-02 06:21:05 UTC
From: mgray@ess-us.com
Topic: 2893 Message: 2893

Thanks to all those that help to support the ANSR-33 flight. The final flight summary is posted to:

http://www.kd7lmo.net/ansr/ansr_33.html

If the payload is ever recovered, we'll post the Flight Data Recorder data set.

73s de KD7LMO

2894. Re: [GPSL] 2006 ARHAB Contest summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-02 06:27:12 UTC
From: mgray@ess-us.com
Topic: 2886 Message: 2894

First, thanks Ralph for all the hard work in keeping track of these records and posting them. Maintaining a web site is a fair amount of effort. Great job!

The contest has been fun for ANSR this year, but we did pretty well. The long duration stuff has been fun because it gets a larger number of groups involved in the flights and is a challenge.

Happy New Year to the group

On Mon, 1 Jan 2007, Ralph Wallio, W0RPK wrote:

> Ref's comments below.
>
>
> Highest Altitude
> ----------------
> [1]
> 117,127 16Dec06 ANSR-32
> 113,074 07Jan06 VWS-3
> 108,323 23May06 LaACES-04
> 106,183 04Aug06 HABET L-98
> 96,596 22Apr06 Explorer Post 632 2006A
> 94,397 13May06 PRSGC-5
>
> [1] Flight disqualified by 24-notice rule:
> 118,011 22Apr06 WV-4
>
>
> Longest Great Circle Distance
> -----------------------------
> 552.63 29Dec06 ANSR-33 (ES-OS ZP floater) [1]
> [2]
> 178.79 04Mar06 WB8ELK HiBall-8
> 162.75 17Dec06 UTARC UX-9
> 155.20 23Dec06 WB8ELK HiBall-10
>
>
> [1] ANSR-33 limited from 775.31mi by 2-hour telemetry rule
> [2] GPA SD flight disqualified by web page info rule
> 400.24 07Mar06 Solar Tetroon SD-9 (Grosse Pointe Academy)
>
>
> Flight Time Launch-to-Landing
> -----------------------------
> [1]

> [2]
> 8:24 29Dec06 ANSR-33 (ES-OS ZP floater) [1]
> 3:58 23Dec06 WB8ELK HiBall-10
> 3:04 04Mar06 WB8ELK HiBall-8
>
> [1] ANSR-33 limited from 17:24 by 2-hour telemetry rule
> [2] GPA SD flight disqualified by web page info rule
> 12:27 07Mar06 Solar Tetroon SD-9 (Grosse Pointe Academy)
>
>
> UHF-VHF Telemetry Reception Distance
> ------------------------------------
> 326.7 05Aug06 CNS-012 (GPSL2006) W?RPK
> 318.0 19Nov06 FAR HORIZONS II W?RPK
> 264.1 23Jul06 TABEL-4 KA8MID
> 256.7 01Jul06 CNNSP-06 W?RPK
> 163.8 01Apr06 CNNSP-05 W?RPK
> 126.9 02Dec06 KWU/SSOK/N?OY W?RPK
> 100.1 01Apr06 CIBE-LF2 W?RPK
>
>
> HF <50MHz Telemetry Reception Distance
> --------------------------------------
> 2,023 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KF4KJQ
> 1,803 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W4BGH
> 1,692 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WA8MTI
> 1,620 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KC9DOA
> 1,528 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KD7KST
> 1,523 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m N9FTC/4
> 1,506 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KC9GMW
> 1,478 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KF4KJQ
> 1,473 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WB8ELK
> 1,373 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m K?QVF
> 1,317 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W?RPK
> 1,260 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W7PSK
> 1,211 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KE3KZ
> 1,199 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KC5WMI
> 1,147 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W?JRT
> 1,124 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m N7RGS
> 1,102 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m W6OSC
> 1,069 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m AC7ZG
> 1,020 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WA7QNA
> 900 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m K5TAO
> 854 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m K5PSB
> 701 25Feb06 UTARC UX-7 CW/30m W?RPK
> 134 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m WB?SMX
> 134 29Dec06 ANSR-33 (ES-OS ZP floater) PSK-31/20m KD7VRB
>
>
> Two-way QSO Distance

> --------------------
> -- No entries --
>
>
> Ref's comments:
>
> --- I do not recall receiving a certificate or prize for winning the >50MHz telemetry
reception
> distance category in 2005 (via ORB-19). Did HABET (altitude), WB8ELK (flight distance and
time),
> KF4KJQ (HF telemetry distance via ANSR-28) or KC5TRB & KA9SZX (QSO distance via HABITAT
SKYLAB)
> receive anything? Telemetry and QSO honors were supposed to go to both the flight group
and distant
> participants.
>
> --- ARHAB is both a ballooning and a communications challenge. Our contest results show
interest
> in all three ballooning categories, altitude, distance and time during 2005 and 2006.
They are not
> showing much interest in <50MHz telemetry reception distance (12-of-13 entries in
2005-2006 combined
> were from me) or in QSO distance (only 3 entries in 2005 and none in 2006). ANSR and
UTARC were the
> only groups flying HF telemetry in 2005-2006. I haven't counted repeater/digipeater
equipped
> flights (that worked AOK) but it has to be very small number.
>
> --- A few rules judgments could have gone the other way resulting in more flight
disqualifications.
> Closer judging of recovery efforts and adherence to flight and communications regulations
is too
> much work for one referee.
>
> --- It is not clear to me what we are accomplishing with our annual contests. Is our
level of
> activity, or advancement of our state-of-the-art, or encouragement to experiment, or
competitive
> camaraderie significantly enhanced by annual contests beyond the value of our all-time
record
> keeping?
>
> TNX es 73 de Ralph Wallio, W?RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>

> Yahoo! Groups Links
>
>
>
>

2895. ANSR-33 map, Contest

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-02 16:56:09 UTC
From: K. Mark Caviezel
Topic: 2895 Message: 2895

Does anyone have a nice map snapshot that shows the position reports from the recent record setting ANSR-33 flight? I'd like to include this in my records of the flight.

Also: Ralph, thanks again for being the keeper of the records. It is a lot of fun, and I think the annual contest stimulates fun and experimental ARHAB activity.

- Mark Caviezel ng0x

2896. Flight Map

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-02 17:22:17 UTC
From: K. Mark Caviezel
Topic: 2896 Message: 2896

http://www.kd7lmo.net/ansr/data/ansr_33_ground.gif

ooops. after the slightest amount of poking around, I
found this excellent map.

- Mark ng0x

2897. Finnish near-space group

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-03 01:56:16 UTC
From: Mark Conner
Topic: 2897 Message: 2897
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2898. Ballooning contests

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-03 03:06:44 UTC
From: wb8elk@aol.com
Topic: 2898 Message: 2898

I think the contests are a good way to stir up innovation and activity....I know it always seems to spur me and a few others onward to toss one up at the very end of the year.

As per my previous thoughts on the subject in past discussions, I'd like to suggest removing some of the contest rules and restrictions for the 2007 balloon contests that often invalidate an otherwise valid yearly record and also keeps the record-keeper/judge (Ralph in this case) busy trying to sort things out. In other words, I'd like to suggest simpler rules so that we can spur more activity and participation and make it a lot easier on Ralph. The intent of the existing 2006 rules are well-intended but are often impractical due to vagarities of propagation, for one example.

I do like the advance notice rule to give enough time to post info for those who want to follow the flight but I'm not sure if less than 24 hours would give Ralph enough time to post. I guess an alternative would be to post on Balloon_Sked at least a few hours in advance might be an option?

Also...some groups or individuals do not have much of a web presence...so perhaps a rule to at least summarize flight results via a posting to GPSL or Balloon_Sked might be enough?

In any case...I look forward to a stellar year of ballooning in 2007 !!!

- Bill WB8ELK

2899. Re: [Ballooning] lift and helium

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-04 02:22:30 UTC
From: Mike Manes
Topic: 2899 Message: 2899

This is a real long shot, but might there have been a puncture
in the envelope well above the ZP vent?

73 de Mike W5VSI

K. Mark Caviezel wrote:
> Hello Louis:
> Thanks for checking with the gas supplier.
> This is shaping up to be a real mystery.
> Was as accurate weighing of everything hooked to
> the
> balloon made?
>>From the description, it sounds like you guys put
> 280-290 std cubic feet of gas in the balloon,
> enough
> for 18.4-19.1 lbs total buoyancy if pure helium.
>
> I made some scaled measurements and a volume
> calculation from the launch photo, and although
> it is
> admittedly rough, that indicated that the balloon
> was
> at about 272 cubic foot inflation at launch.
> This is
> certainly within acceptable error band of my
> scaling
> method, and confirms the amount of gas loaded.
> The
> balloon diameter is 7.533 feet if anyone else
> wants to
> take a crack at it.
>
> An additional theory was that you guys had been
> sold a
> 50-50 mix of helium-argon. This is often used
> in TIG
> welding when neither pure helium or pure argon is
> optimal. But this would require much more gas
> than
> two full K bottles to reach equlibirum.
>
> I've done over half a dozen flights where the the
> gap
> between predicted float and actual float was less
> than

> 500 feet altitude. So this is why the ANSR-33
> performance is so mystifying to me.
>
> It may be a combination of an overweight payload,
> possible air entrainment, inadvertently
> undersized
> balloon and the balloon vent reducing the
> effective
> volume of the balloon more than planned. But
> even
> this isn't a satisfactory explaination. For
> nominal
> performance, the payload would have to be at 24
> lbs
> total to lower the initial float down to 21k
> feet.
> This doesn't agree with your gas load. If
> undersized,
> the balloon would have to be over 10 feet shorter
> than
> the 28.8 foot length in my design. A look at
> the
> launch photo indicates that that much error is
> not
> possible.
>
> I think one last possibility remains: turbulent
> mixing of air and helium in the balloon after
> launch.
> This would lower the average molecular weight of
> the
> lifting gas, and give us the performance we've
> seen.
> On previous flights I've not taken precautions to
> prevent air entering- and all indidications were
> a
> slow, laminar entry of air, followed by air being
> expelled at altitude. This is common for manned
> gas
> balloons. But the size and geometry was
> different for
> the ANSR 33 bag, so this may be the factor.
> I'll
> supply a vent duct with the next balloon to
> reduce or
> prevent air loading during ascent.
>
> - Mark Caviezel
>
>

>
> --- Louis Wilcox <louis@...> wrote:
>
>> Hi Mark,
>>
>> I talked to our gas supplier today about the
>> helium that we have
>> been buying. He told me that the give us
> industrial
>> grade which is
>> 99.995% pure helium. He also said that the
> party
>> balloon mix is 99.8%
>> pure so even of we got it would not have made
> that
>> big of a
>> differance.
>>
>> He did say that the only way it could have
> been
>> off is if the
>> person that filled the tanks did not follow the
>> standard process and
>> did not purge the tank before filling it. He
> did nto
>> think it was very
>> likely that that happened.
>>
>> We filled the balloon with a single K bottle
> and
>> did not get enough
>> lift for the ballast weight and the balloon. We
> had
>> another bottle
>> with ~300PSI that we dumped in next. We then
> used
>> 300-400PSI from a
>> fresh bottle and that gave us the positive lift
> that
>> we were looking
>> for.
>>
>> If we did not empty the first bottle the gas
>> supplier would have it
>> analyzied and provide us with the results but I
>> don't think there is
>> much or any gas left in it.
>>
>> Any other ideas? I would like to see this
> flight

>> go off as planned
>> one time and get a balloon all the way to the
> east
>> coast.
>>
>> Louis
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2900. Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-06 18:50:40 UTC
From: Harry M
Topic: 2900 Message: 2900

I checked on the price and availability of Helium here in Tulsa yesterday. It has gone up $10 for a K bottle and availability is not guaranteed. I also priced Hydrogen, which is $30 for a K bottle and readily available. I am strongly inclined to start using Hydrogen in the future.

I am soliciting comments from those of you that have experience using Hydrogen for filling wx balloons. I would like specifics on apparatus, materials used, grounding, precautions, pictures, web links, etc.

Thanks & 73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2901. Re: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 03:40:49 UTC
From: Mark Conner
Topic: 2900 Message: 2901
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2902. Re: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 04:14:43 UTC
From: Harry M
Topic: 2900 Message: 2902

Hi Mark,

I've been doing a lot of INet searching and the safety measures needed are not very restrictive. In fact, having a container of gasoline in the vehicle is more dangerous. I don't have a problem transporting H2. Just a few adjustments like keeping a window open, not smoking and having a ground from the vehicle to tank to filler. One thing I have a question about is the cautionary in the MSDS that says..."Do not crack or open disconnected hydrogen cylinder valves; escaping gas may ignite spontaneously." I assume that a static discharge would be the third part of the triangle.

I have witnessed a fill at the NWS site in Norman, Ok. They have it setup to be an unmanned fill. The balloon is laid out on a table and attached to the filler, which is attached to a scale that's set to a predetermined amount of lift. The scale is attached to a shutoff valve. They turn on the H2 and leave the building. The fill room is isolated from the H2 tank room.

73 Harry

2903. RE: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 14:05:06 UTC
From: Roger Hammond
Topic: 2900 Message: 2903

Harry,

We use hydrogen to fill the casing of our generators at both of the power plants that I work in. Hydrogen has much better thermal conductivity than air, so it's a better choice to keep the generator cool. A little hydrogen is 'scavenged' from the casing at all times in order to keep the purity above 93% and is monitored by a hydrogen purity analyzer. We use bulk hydrogen at one facility and cylinders at the other. The only danger, other than the obvious spark or flame, that we've been warned of is to never crack open the valve of hydrogen cylinder to atmosphere. I believe the concern is static build up around the nozzle potentially igniting the gas. Also, hydrogen burns with a nearly invisible flame, so it's very difficult to see.

Sounds like I should contact my local supplier about He availability for GPSL this summer.

73,

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Saturday, January 06, 2007 12:51 PM
To: ORB Yahoo; HAM Balloon Reflector KNSP; HAM BalloonsRockets; GPSL@yahoogroups.com
Subject: [GPSL] Hydrogen & ARHAB

I checked on the price and availability of Helium here in Tulsa yesterday. It has gone up $10 for a K bottle and availability is not guaranteed. I also priced Hydrogen, which is $30 for a K bottle and readily available. I am strongly inclined to start using Hydrogen in the future.

I am soliciting comments from those of you that have experience using Hydrogen for filling wx balloons. I would like specifics on apparatus, materials used, grounding, precautions, pictures, web links, etc.

Thanks & 73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members. <http://members.cox.net/hhm_74775/orb/>
cox.net/hhm_74775/orb/
http://groups.
<http://groups.yahoo.com/group/oklahoma_research_balloons/join>

yahoo.com/group/oklahoma_research_balloons/join

2904. Re: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 15:40:50 UTC
From: Joe
Topic: 2900 Message: 2904

All 30 flights we have had we have used Hydrogen, Never have had any
problems at all.

The only cost in changing I can see for you all is that the threads on
the bottle is left hand thread. So you will need a new regulator.

The explosive nature is far exaggerated. I've seen gasoline "Explode"
much more violently. We often fill huge trash bags with left over gas
and intentionally ignite them. A quiet orange ball of flame happens
that is just slightly bigger that the bag it was in.

Hindenburg,, if you ever watched that news film, it did not explode
either. Yes it burned, but the new theory is that the covering is what
burned, not the gas inside.

matter of fact the "Mythbusters" will be doing just this in a future episode

http://dsc.discovery.com/tvlistings/episode.jsp?episode=72&cpi=25369&gid=0&channel=DSC

I honestly am totally un afraid of hydrogen, In my opinion it's just
got a bad rap from hindenburg, and how much of that was anti NAZI
propaganda at the time?

from our experience I'd not be afraid to inflate one in my living
room, really,, your christmas tree is a thousand times more hazardous
that Hydrogen is.

but thats my 2 cents from experience.

joe WB9SBD Near Space Sciences

Mark Conner wrote:

> I have seen the same thing in the Omaha area in the last six months.
> I recently paid over $90 for a T cylinder - availability has not been
> a problem yet (they had 8-10 T's on hand last time). I think it was
> $73 about 15 months ago and $80 in June.
>
> As most everyone knows, NWS uses hydrogen for their
> radiosonde operations. After watching a few fills and launches, I
> don't think they take a lot of excess precautions other than to
> prohibit smoking near the building. If they "lose" a balloon inside
> the building where they fill, procedure requires them to contact the
> MIC (I suppose to judge whether or not to go to the expense to fill
> another balloon based on the meteorological situation).
>
> The main thing for me would be transport and storage. I keep two
> helium cylinders in my garage - I imagine I'd keep the hydrogen

> cylinders outside, but where I store them is (unintentionally) fairly
> well ventilated. I might consider having Linweld deliver cylinders
> rather than going to get them if I went to hydrogen (think it's about
> $5 here).
>
> 73 de Mark N9XTN
>
>
> On 1/6/07, Harry M <hhm_74115@... <mailto:hhm_74115@...>> wrote:
>
>
>
> I checked on the price and availability of Helium here in Tulsa
> yesterday. It has gone up $10 for a K bottle and availability is
> not guaranteed. I also priced Hydrogen, which is $30 for a K
> bottle and readily available. I am strongly inclined to start
> using Hydrogen in the future.
>
> I am soliciting comments from those of you that have experience
> using Hydrogen for filling wx balloons. I would like specifics on
> apparatus, materials used, grounding, precautions, pictures, web
> links, etc.
>
> Thanks & 73
> Harry
>
>
>
> .
>
>
>

2905. Re: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 16:56:34 UTC
From: Harry M
Topic: 2900 Message: 2905

Thanks for the comments Joe & Roger!

Joe, with He I normally use a plastic hose and PVC filler. What do you use wi H2? Do you use any grounding during fill? I'm not afraid of H2, like a good pilot or pyro, I would like to get all available info before I proceed.

Roger, your suspicions about static at the bottle agree with mine, although I have found no difinitive answer yet. I will be going to AirGas here in Tulsa this week and see what they have to say.

73 Harry

2906. RE: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 17:05:50 UTC
From: Roger Hammond
Topic: 2900 Message: 2906

Harry,

Let me know what you find out from the AirGas folks.
I'd be curious to see what they say about it.

Rog KC0MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Sunday, January 07, 2007 10:57 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Hydrogen & ARHAB

Thanks for the comments Joe & Roger!

Joe, with He I normally use a plastic hose and PVC filler. What do you use wi H2? Do you use any grounding during fill? I'm not afraid of H2, like a good pilot or pyro, I would like to get all available info before I proceed.

Roger, your suspicions about static at the bottle agree with mine, although I have found no difinitive answer yet. I will be going to AirGas here in Tulsa this week and see what they have to say.

73 Harry

2907. Re: Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 17:23:55 UTC
From: nssdz
Topic: 2900 Message: 2907

--- In GPSL@yahoogroups.com, "Harry M" <hhm_74115@...> wrote:
>
>
> Thanks for the comments Joe & Roger!
>
> Joe, with He I normally use a plastic hose and PVC filler. What do
you use
> wi H2?

Same exactly, 1.25"PVC pipe at the balloon neck with hose clamp and
ballast weight attached. this goes into a 1/4"ID latex hose, that
after three feet or so adapts the the high pressure hose from the
regulator (comes with the high pressure hose,, but rarely use more
than 10 pounds of pressure when filling)

Do you use any grounding during fill? I'm not afraid of H2, like a
> good pilot or pyro, I would like to get all available info before I
proceed.
nope, no additional grounding,, the Hydrogen is in the balloon! We
never NEVER touch the balloon itself, so, no chance of a spark even
if there was it'd have to penetrate the latex layer, and make a hole
that the gas inside can start to leak out, then you'd have to have a
second spark to finally ignite the mixture, hydroges itself CAN NOT
BURN,, it MUST be mixed with Oxygen.
>
> Roger, your suspicions about static at the bottle agree with mine,
although
> I have found no difinitive answer yet. I will be going to AirGas
here in
> Tulsa this week and see what they have to say.

When we filled the trash bags it usually was done without the
regulator and directly from the bottle, LOUD hissing sound,, but a
fast moving stream of "Air" makes a spark? whty?

Joe
>
>
> 73 Harry
>

2908. Re: [GPSL] Re: Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 17:38:15 UTC
From: Harry M
Topic: 2900 Message: 2908

Joe,

> ... but a fast moving stream of "Air" makes a spark? whty?

Friction of the molecules!

Harry

2909. Re: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 21:30:11 UTC
From: PAUL VERHAGE
Topic: 2900 Message: 2909

I believe they use grounded fill lines, but other than that, it does look like they're not too worried about it. Filling out doors does sound safer, since there's no confined H2 to worry about.

Paul

>>> "Mark Conner" <mconner1@...> 1/6/2007 8:40:49 pm >>>
I have seen the same thing in the Omaha area in the last six months. I recently paid over $90 for a T cylinder - availability has not been a problem yet (they had 8-10 T's on hand last time). I think it was $73 about 15 months ago and $80 in June.

As most everyone knows, NWS uses hydrogen for their radiosonde operations. After watching a few fills and launches, I don't think they take a lot of excess precautions other than to prohibit smoking near the building. If they "lose" a balloon inside the building where they fill, procedure requires them to contact the MIC (I suppose to judge whether or not to go to the expense to fill another balloon based on the meteorological situation).

The main thing for me would be transport and storage. I keep two helium cylinders in my garage - I imagine I'd keep the hydrogen cylinders outside, but where I store them is (unintentionally) fairly well ventilated. I might consider having Linweld deliver cylinders rather than going to get them if I went to hydrogen (think it's about $5 here).

73 de Mark N9XTN

On 1/6/07, Harry M <hhm_74115@...> wrote:
>
>
>
> I checked on the price and availability of Helium here in Tulsa yesterday.
> It has gone up $10 for a K bottle and availability is not guaranteed. I also

> priced Hydrogen, which is $30 for a K bottle and readily available. I
am
> strongly inclined to start using Hydrogen in the future.
>
> I am soliciting comments from those of you that have experience
using
> Hydrogen for filling wx balloons. I would like specifics on
apparatus,
> materials used, grounding, precautions, pictures, web links, etc.
>
> Thanks & 73
> Harry
>
>
>
> .
>
>
>

2910. RE: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 21:32:38 UTC
From: PAUL VERHAGE
Topic: 2900 Message: 2910

As far as the invisible flame, around rockets in the past, pad rats carried a broom with them. When the broom caught fire, you had a burning H2 leak. Oh, you want to wave the broom in front of you. Waving it behind you defeats the purpose.

Paul

>>> "Roger Hammond" <rahammond@...> 1/7/2007 7:05:06 am >>>
Harry,

We use hydrogen to fill the casing of our generators at both of the power plants that I work in. Hydrogen has much better thermal conductivity than air, so it's a better choice to keep the generator cool. A little hydrogen is 'scavenged' from the casing at all times in order to keep the purity above 93% and is monitored by a hydrogen purity analyzer. We use bulk hydrogen at one facility and cylinders at the other. The only danger, other than the obvious spark or flame, that we've been warned of is to never crack open the valve of hydrogen cylinder to atmosphere. I believe the concern is static build up around the nozzle potentially igniting the gas. Also, hydrogen burns with a nearly invisible flame, so it's very difficult to see.

Sounds like I should contact my local supplier about He availability for GPSL this summer.

73,

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Saturday, January 06, 2007 12:51 PM
To: ORB Yahoo; HAM Balloon Reflector KNSP; HAM BalloonsRockets; GPSL@yahoogroups.com
Subject: [GPSL] Hydrogen & ARHAB

I checked on the price and availability of Helium here in Tulsa yesterday. It has gone up $10 for a K bottle and availability is not guaranteed. I also priced Hydrogen, which is $30 for a K bottle and readily available. I am strongly inclined to start using Hydrogen in the future.

I am soliciting comments from those of you that have experience using Hydrogen for filling wx balloons. I would like specifics on apparatus, materials used, grounding, precautions, pictures, web links, etc.

Thanks & 73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members. <http://members.cox.net/hhm_74775/orb/>
cox.net/hhm_74775/orb/
http://groups.
<http://groups.yahoo.com/group/oklahoma_research_balloons/join>
yahoo.com/group/oklahoma_research_balloons/join

2911. Re: [GPSL] Re: Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 22:13:45 UTC
From: Mike Manes
Topic: 2900 Message: 2911

That's perzackly right, Harry. This is why SAR helicopters always dip the rescue harness in the water or on the ground before letting the victim touch it.

BTW, I don't think the fire risk with H2 is worth the savings, especially when most of our flights involve students who may be recruited to handle the balloon during a windy fill. And we commonly have to haul out 7 T bottles to a launch of 2 x 3000 gram bags. Lotsa bang there!

The H2 flame is invisible because there's very little emissivity in H2O - unlike Carbon. That doesn't mean the H2 flame isn't hot!

73 de Mike W5VSI

Harry M wrote:
> Joe,
>
>> ... but a fast moving stream of "Air" makes a spark? whty?
>
> Friction of the molecules!
>
> Harry
>
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2912. Re: [GPSL] Re: Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-07 23:31:52 UTC
From: Harry M
Topic: 2900 Message: 2912

> That's perzackly right, Harry. This is why SAR helicopters always dip
> the rescue harness in the water or on the ground before letting the
> victim touch it.

...and all aircraft that I know of have static wicks.

"perzackly" ?
I thought it was spelled "perzacactaly"
What Funk'n-Manes is that from? :)

Hey, as long as the students keep it above their heads there shouldn't be a problem.
Think positive...No one on the Hindenburg got hurt from the H2.

73 Harry

2913. RE: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-08 04:58:43 UTC
From: Brek Brixius
Topic: 2900 Message: 2913

Waving the broom behind you might indicate another type of gas leak :)

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
As far as the invisible flame, around rockets in the past, pad rats carried a broom with them. When the broom caught fire, you had a burning H2 leak. Oh, you want to wave the broom in front of you. Waving it behind you defeats the purpose.

Paul

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Sounds like I should contact my local supplier about He availability for GPSL this summer.

73,

Rog KC?MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Saturday, January 06, 2007 12:51 PM
To: ORB Yahoo; HAM Balloon Reflector KNSP; HAM BalloonsRockets; GPSL@yahoogroups.com
Subject: [GPSL] Hydrogen & ARHAB

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Thanks & 73
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Harry - KC5TRB - Tulsa
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http://members. <http://members.cox.net/hhm_74775/orb/>
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<http://groups.yahoo.com/group/oklahoma_research_balloons/join>
yahoo.com/group/oklahoma_research_balloons/join

Any questions? Get answers on any topic at Yahoo! Answers. Try it now.

2914. RE: [GPSL] Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-08 14:30:47 UTC
From: PAUL VERHAGE
Topic: 2900 Message: 2914

Oh man I hope that one doesn't catch on fire!

Paul "Do you smell gas?" Verhage

>>> Brek Brixius <gofly2007@...> 1/7/2007 9:58:43 pm >>>
Waving the broom behind you might indicate another type of gas leak :)

Brek.

PAUL VERHAGE <paul.verhage@...> wrote:
As far as the invisible flame, around rockets in the past, pad rats carried a broom with them. When the broom caught fire, you had a burning H2 leak. Oh, you want to wave the broom in front of you. Waving it behind you defeats the purpose.

Paul

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73,

Rog KCØMWM

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Sent: Saturday, January 06, 2007 12:51 PM
To: ORB Yahoo; HAM Balloon Reflector KNSP; HAM BalloonsRockets; GPSL@yahoogroups.com
Subject: [GPSL] Hydrogen & ARHAB

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Thanks & 73
Harry

Harry - KC5TRB - Tulsa
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Any questions? Get answers on any topic at Yahoo! Answers. Try it now.

2915. FW: He availability

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 01:11:20 UTC
From: Roger Hammond
Topic: 2915 Message: 2915

I inquired about the availability of Helium for GPSL 2007. This was the response....

73 de Roger KCØMWM

-----Original Message-----
From: Jeff Leep
Sent: Monday, January 08, 2007 8:08 AM
To: Roger Hammond
Subject: RE: He availability

As of right now you should be ok for July, the biggest problem is for the companies that use liquid helium in large amounts. As far as the price I have heard up to a 30% price increase by summer. I will know more by late March or April.

Jeff Leep
Branch Manager, Linweld, Inc.
Grand Island, NE 68803

2916. Re: [GPSL] FW: He availability

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 02:31:00 UTC
From: Mark Conner
Topic: 2915 Message: 2916
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2917. The industry word on what up with He availability and perzackly why

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 02:41:35 UTC
From: Hank
Topic: 2917 Message: 2917

LINDE GROUP RAISES HELIUM PRICE effective Oct. 15, 2006

http://www.cryogas.com/news/gascompanies.php

The Linde Group announced an increase US helium prices 10 to
15 percent, effective October 15, 2006, or as contracts allow.
This increase will affect customers purchasing helium in liquid
dewars, gaseous tube trailers, high-pressure cylinders, and bulk
liquid containers. *Larger* price increases may apply to customers
who are not currently paying fuel surcharges. "This price increase
is necessary to offset the higher cost of purchasing and producing
refined helium," said Kevin Baudhuin, President, BOC Industrial
and Special Products, North America.

"The increased helium costs are the result of a growing reliance
on purchases of high cost crude helium from the U.S. Bureau of Land
Management (BLM), government restrictions on the flow of crude
helium feedgas through the BLM pipeline and the higher cost of
refined helium purchased from third parties. Crude helium from the
BLM's stockpile is playing an increasingly important role in the
helium supply chain as crude helium production from lower cost
private sources declines due to depletion of some of the key natural
gas fields that contain helium," Baudhuin explained.

Associated Press Sept. 11, 2006

See entire story at http://www.msnbc.msn.com/id/14791165/

CLEVELAND - This gas shortage won't hurt you at the pump, but you
could find it a little deflating at your next party.

The world's supply of helium has taken a hit because of delays in
getting plants on line, U.S. officials say. Suppliers of the
lighter-than-air gas have raised prices, and some party-supply
stores have had to cut back on their balloon business.

A key issue in the shortage involves contracts for helium from a
Qatar plant and two in Algeria that been off line, said Hans Stuart,
a spokesman for the U.S. Bureau of Land Management. One overseas
plant has been involved in lengthy maintenance and two are behind
on construction schedules.

The BLM, which manages more than 400,000 square miles of public
land, mostly in the West, provides more than one third of the
world's crude helium, selling it to private plants for processing.

2918. Re: [GPSL] Re: Hydrogen & ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 02:49:04 UTC
From: Harry M
Topic: 2900 Message: 2918

I went to AirGas today and they will not sell me H2 so I went to 3 other welding supplies and they had no problem selling
it to me. Price is 196 cu/ft $24 - 261 cu/ft $34 and a single stage H2 regulator is $150-$175.

One of these suppliers is where I bought my He regulator and they will sell me He T-tanks for the price I had been paying at my regular supplier ($65), even though the regulat price is $90. I was also told the price of He went up because of Valentines Day and theprice was expected to fall again in late February. Typical case of supply and demand (Gouging as I see it)! At this time none of them have a shortage of He and don't see any in the future.

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2919. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 12:48:14 UTC
From: Troy Campbell
Topic: 2917 Message: 2919

Does anyone have an idea of what changes will need to be made (if any) to Ballloon Track for Windows, On Line Balloon Track, LiftWin and others if H2 is used rather than He?

73 de Troy, KC0MIC

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2920. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 14:57:40 UTC
From: PAUL VERHAGE
Topic: 2917 Message: 2920

I made a calculation several years ago assuming the ideal gas law. H2 gave 8% more lift. If the ideal gas law holds up, you'll just need to decrease the initial fill of gas by 8%.

Paul

>>> Troy Campbell <kc0mic@...> 1/9/2007 5:48:14 am >>>
Does anyone have an idea of what changes will need to be made (if any) to Ballloon Track for Windows, On Line Balloon Track, LiftWin and others if H2 is used rather than He?

73 de Troy, KC0MIC

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

2921. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 14:57:26 UTC
From: mconner1@gmail.com
Topic: 2917 Message: 2921
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2922. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 15:37:07 UTC
From: Ralph Wallio, W0RPK
Topic: 2917 Message: 2922

One man's answer to the question of practical performance differences between He and H.

Density of He at sea level and 15dC: 0.1785kg/m^3 For H: 0.0899kg/m^3

Assuming 6lbs of load on a 1500g balloon (total 4.2216kg):

7.0m^3 (247ft^3) of He yields initial ascent rate of 931ft/min at sea level and 15dC

5.59m^3 (197ft^3) of H yields the same ascent rate, 931ft/min

The He filled balloon is predicted to burst at 97kft

The H filled balloon is predicted to burst at 102kft.

These answers come from my balloon performance spreadsheet based on U.S. Standard Atmosphere.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2923. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 16:27:43 UTC
From: nss@mwt.net
Topic: 2917 Message: 2923

Our numbers agree,,Joe

> One man's answer to the question of practical performance differences
> between He and H.
>
> Density of He at sea level and 15dC: 0.1785kg/m^3 For H: 0.0899kg/m^3
>
> Assuming 6lbs of load on a 1500g balloon (total 4.2216kg):
>
> 7.0m^3 (247ft^3) of He yields initial ascent rate of 931ft/min at sea
> level and 15dC
>
> 5.59m^3 (197ft^3) of H yields the same ascent rate, 931ft/min
>
> The He filled balloon is predicted to burst at 97kft
>
> The H filled balloon is predicted to burst at 102kft.
>
> These answers come from my balloon performance spreadsheet based on U.S.
> Standard Atmosphere.
>
> TNX es 73 de Ralph Wallio, W?RPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
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> Yahoo! Groups Links
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2924. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 21:37:24 UTC
From: Mike Manes
Topic: 2917 Message: 2924

That's true if you're filling to a target volume, but if you're filling
to lift a tare weight, no tweak is needed.
73 de Mike W5VSI

PAUL VERHAGE wrote:
> I made a calculation several years ago assuming the ideal gas law. H2
> gave 8% more lift. If the ideal gas law holds up, you'll just need to
> decrease the initial fill of gas by 8%.
>
> Paul
>
>>>> Troy Campbell <kc0mic@...> 1/9/2007 5:48:14 am >>>
> Does anyone have an idea of what changes will need to be made (if any)
> to Ballloon Track for Windows, On Line Balloon Track, LiftWin and others
> if H2 is used rather than He?
>
> 73 de Troy, KC0MIC
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2925. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 23:32:23 UTC
From: Troy Campbell
Topic: 2917 Message: 2925

I've figured that the tracking it's self doesn't need any tweaking. But I'm thinking that I'm going to have to change the on-line ascent rate calculator to account for HE or H2. I haven't really dove into it yet.

73 de Troy KC0MIC

Mike Manes <manes@...> wrote: That's true if you're filling to a target volume, but if you're filling
to lift a tare weight, no tweak is needed.
73 de Mike W5VSI

PAUL VERHAGE wrote:
> I made a calculation several years ago assuming the ideal gas law. H2
> gave 8% more lift. If the ideal gas law holds up, you'll just need to
> decrease the initial fill of gas by 8%.
>
> Paul
>
>>>> Troy Campbell <kc0mic@...> 1/9/2007 5:48:14 am >>>
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> Yahoo! Groups Links
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_____
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http://mail.yahoo.com

2926. Re: [ORB] CW Beacon Test

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-10 18:20:08 UTC
From: Harry M
Topic: 2926 Message: 2926

I have a new 20m CW beacon on the air.
It will remain on for a week or so.
It is on 14.059 +/-

QSL's appreciated!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2927. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-09 23:52:31 UTC
From: Mike Manes
Topic: 2917 Message: 2927

Well, on 2nd thunk, since H2 yields more 8% lift for a given volume, then
the balloon would be 8% less volume and about 5% less drag area. So
one would get a faster ascent for the same excess lift fill using
H2 vs He. Not that any of us can repeatably fill to 1000.0 fpm!

73 de Mike W5VSI

Troy Campbell wrote:
> I've figured that the tracking it's self doesn't need any tweaking.
> But I'm thinking that I'm going to have to change the on-line ascent
> rate calculator to account for HE or H2. I haven't really dove into it
> yet.
>
> 73 de Troy KC0MIC
>
> */Mike Manes <manes@...>/* wrote:
>
> That's true if you're filling to a target volume, but if you're filling
> to lift a tare weight, no tweak is needed.
> 73 de Mike W5VSI
>
> PAUL VERHAGE wrote:
> > I made a calculation several years ago assuming the ideal gas law. H2
> > gave 8% more lift. If the ideal gas law holds up, you'll just need to
> > decrease the initial fill of gas by 8%.
> >
> > Paul
> >
> >>>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> 1/9/2007 5:48:14 am >>>
> > Does anyone have an idea of what changes will need to be made (if
> any)
> > to Ballloon Track for Windows, On Line Balloon Track, LiftWin and
> others
> > if H2 is used rather than He?
> >
> > 73 de Troy, KC0MIC
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com <http://mail.yahoo.com>
> >
> >
> >

> > Yahoo! Groups Links
> >
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>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> _____
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> http://mail.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2928. Re: [GPSL] Hydrogen and Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-11 01:21:57 UTC
From: Troy Campbell
Topic: 2917 Message: 2928

I'm pretty happy if we get withing 100 fpm of what we planned.

I'll think I'll leave it alone for the nonce and see what the numbers look like after a few flights.

73 de Troy KC0MIC

Mike Manes <manes@...> wrote: Well, on 2nd thunk, since H2 yields more 8% lift for a given volume, then
the balloon would be 8% less volume and about 5% less drag area. So
one would get a faster ascent for the same excess lift fill using
H2 vs He. Not that any of us can repeatably fill to 1000.0 fpm!

73 de Mike W5VSI

Troy Campbell wrote:
> I've figured that the tracking it's self doesn't need any tweaking.
> But I'm thinking that I'm going to have to change the on-line ascent
> rate calculator to account for HE or H2. I haven't really dove into it
> yet.
>
> 73 de Troy KC0MIC
>
> */Mike Manes <manes@...>/* wrote:
>
> That's true if you're filling to a target volume, but if you're filling
> to lift a tare weight, no tweak is needed.
> 73 de Mike W5VSI
>
> PAUL VERHAGE wrote:
> > I made a calculation several years ago assuming the ideal gas law. H2
> > gave 8% more lift. If the ideal gas law holds up, you'll just need to
> > decrease the initial fill of gas by 8%.
> >
> > Paul
> >
> >>>> Troy Campbell <kc0mic@... <mailto:kc0mic%40yahoo.com>>
> 1/9/2007 5:48:14 am >>>
> > Does anyone have an idea of what changes will need to be made (if
> any)
> > to Ballloon Track for Windows, On Line Balloon Track, LiftWin and
> others
> > if H2 is used rather than He?
> >
> > 73 de Troy, KC0MIC
> >

> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
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> > Yahoo! Groups Links
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> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
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> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

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Want to start your own business? Learn how on Yahoo! Small Business.

2929. Re: [Balloons-Rockets] Re: [ORB] Hydrogen & ARHAB (Ray Brown)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-12 01:28:59 UTC
From: Mike Manes
Topic: 2929 Message: 2929

I agree with Pat. Unless, of course, you've managed to garner
liability insurance for your group - in that case, please let
me know who's your underwriter and the approx annual premiums!

BTW, natural gas (methane) will lift, but it's a LOT heavier
than He, so you'll need a lot bigger balloon, the cost of which
is likely to consume a goodly bit of your savings on the cost
of the lift gas - assuming you don't ignite it ...

73 de Mike W5VSI, EOSS

Pat Kilroy wrote:
> Pay the big price for Helium and drop the GH2 idea.
>
> Don't consider using natural gas either.
>
> Unless you are part of a small, isolated group --
> if you exclude students, teachers, visitors, the
> public and the press -- then, like the trained NWS
> weather balloon group, go ahead with the hydrogen,
> invoking the safety equipment and all the safety
> procedures.
>
> I would not use hydrogen even if it were free.
>
> There are just too many potential hazards and risks
> (and extra procedures) when involving such a flammable,
> explosive gas near students and instructors and all.
>
> Cheers,
>
> Pat Kilroy
> N8PK
> SimSat
>
> FCM-H3 Handbook
> http://www.ofcm.gov/fmh3/fmh3.htm
>
>
> At Thursday 1/11/2007 04:01 AM, balloons-rockets-request@...
> wrote:
>> Date: Sun, 7 Jan 2007 17:38:51 -0600
>> From: "Ray Brown" <kb0stn@...>
>> Subject: [Balloons-Rockets] Re: [ORB] Hydrogen & ARHAB
>>
>> ----- Original Message -----

>> From: "Harry M" <hhm_74115@...>
>> Sent: Saturday, January 06, 2007 12:50 PM
>> Subject: [ORB] Hydrogen & ARHAB
>> >
>> > I checked on the price and availability of Helium here in Tulsa
>> yesterday. It has gone up $10 for a K bottle and availability is
>> not guaranteed. I also priced Hydrogen, which is $30 for a K bottle
>> and readily available. I am strongly inclined to start using
>> Hydrogen in the future.
>> >
>> > I am soliciting comments from those of you that have experience
>> using Hydrogen for filling wx balloons. I would like specifics on
>> apparatus, materials used, grounding, precautions, pictures, web
>> links, etc.
>>
>>
>> Wow, ask for a BIG job next time. :-)
>>
>> I found this one reference,
>> http://www.nws.noaa.gov/wsom/manual/archives/NB458111.HTML
>> which refers to NOAA weather balloon launches using hydrogen... the
>> big things there are to
>> ground-bond the filling nozzle to dissipate any static electricity
>> charge, and also have several
>> fire extinguishers available. The main document is about a building
>> that houses the filling operation
>> to fill the balloons with H2, but I think you guys do it all outside,
>> so the big thing would be the
>> grounding of the filling nozzle. (this is dated 1981)
>>
>> I didn't realize this, either... apparantly EOSS uses hydrogen
>> instead of helium... their info
>> is at http://www.eoss.org/pubs/faqloon.htm if you don't have it.
>> Hopefully someone from
>> the EOSS group will talk to you about it. :-)
>>
>> Basically, common sense should rule, with absolutely no smoking
>> within at least 25' of any part
>> of your balloon, and lots of ventilation in case the balloon
>> prematurely bursts. Hydrogen itself burns
>> with a pale blue flame, much like alcohol, and it will definitely flow
>> upward and dissipate very
>> quickly in open air.
>>
>> From someone that used to hall hazardous materials for a living,
>> including liquid nitrogen,
>> liquid ozygen, and liquid hydrogen,
>>
>> _Ray_ KBØSTN
>

>
> ==
> Patrick L. Kilroy WK
> Integration & Test (I&T) 301-286-1984 Voice
> NASA Goddard Space Flight Center 301-286-1673 Fax
> Building 5, Mail Code 568 Patrick.L.Kilroy@...
> Greenbelt, Maryland 20771 http://lro.gsfc.nasa.gov/
> ==
>
> "A problem well stated is a problem half solved."
> -Charles F. Kettering
>
>
>
>
>
> ____
> Balloons-Rockets mailing list
> Balloons-Rockets@...
> http://mailman.qth.net/mailman/listinfo/balloons-rockets
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2930. MPU for flight computers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-13 20:15:46 UTC
From: Troy Campbell
Topic: 2930 Message: 2930

Has anyone used a Basic Atom in their payloads?

If so, what kind of experience have you had with them?

Thanks!

73 de Troy KC0MIC

8:00? 8:25? 8:40? Find a flick in no time
with theYahoo! Search movie showtime shortcut.

2931. Re: [GPSL] MPU for flight computers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-13 23:12:06 UTC
From: Mark Conner
Topic: 2930 Message: 2931

I checked into them a few years ago at the time I was looking for
something beyond a BS2sx. Based on the reading I did, there were some
questions regarding the roubustness of the compiler - the processor
would hang or otherwise do unexpected things for no apparent reason.
Not sure how much credence to put in those reports, but I ended up
going with the BS2p when it came out shortly after I was looking at
all this.

73 de Mark N9XTN

On 1/13/07, Troy Campbell <kc0mic@...> wrote:
>
>
>
>
>
>
> Has anyone used a Basic Atom in their payloads?
>
> If so, what kind of experience have you had with them?
>

2932. Re: [GPSL] MPU for flight computers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-14 00:47:06 UTC
From: Troy Campbell
Topic: 2930 Message: 2932

I looked at th BasicX and it didn't look like all that much bang for the buck. The Ardino looks promising but I don't much care for the language, though the IDE is Open Source (a real plus in my opinion). The Basic Atom doesnt have much of a user base so there's not a lot of code out there. However, the code is VERY similar to the the BSII. And the Atom has 360 bytes of RAM on the cheap version ($39) and 2k on the "Pro" version ($60) . Plus it's got hardware a UART, a builtin ADC, an interrupt and there's a version that's pin compatbile with the BS II. Compared to the BS II, it looks like a lot less hardware interfacing.

The lack of RAM in the BS II is the real motive for me to look around. I want to use Spark Fun's SD datalogger to log literally everything and there's just not enough RAM to shove it all through the BS II or 2p. I also want to start communicating between flight modules with Sparkfun's little 434mhz rf modules and the the BS line is starting to run out of gas.

Of course, I'd rather use a gumstix ('ARM' based linux computer about the size of 2 packs of gum) and do it in perl, but the thing eats too much power.

Last year we had one of the guy's lauch a PC-104 ARM based computer that will run linux, though he used BSD. It's a power hog too, but seemed to do okay. The perl libraries that came with it were awesome.

I'll probably buy one of the Atom OEM kits ($39) an see what it'll do. If I get time (HAH!), I'll see with the PC-104 will do also.

73 de Troy KC0MIC

Mark Conner <mconner1@...> wrote: I checked into them a few years ago at the time I was looking for
something beyond a BS2sx. Based on the reading I did, there were some
questions regarding the roubustness of the compiler - the processor
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73 de Mark N9XTN

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>
>
>
>
>
>
> Has anyone used a Basic Atom in their payloads?
>
> If so, what kind of experience have you had with them?

>

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Yahoo! Toolbar alerts you the instant new Mail arrives. Check it out.

2933. Re: [GPSL] MPU for flight computers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-16 01:08:10 UTC
From: PAUL VERHAGE
Topic: 2930 Message: 2933

I use the BS2p. It has a scratch pad large enough to store an entire GPS sentence. Then I have the Stamp step through the stored sentence and pull out what it needs.

Paul

>>> Troy Campbell <kc0mic@...> 1/13/2007 5:47 pm >>>
I looked at th BasicX and it didn't look like all that much bang for the buck. The Ardino looks promising but I don't much care for the language, though the IDE is Open Source (a real plus in my opinion). The Basic Atom doesnt have much of a user base so there's not a lot of code out there. However, the code is VERY similar to the the BSII. And the Atom has 360 bytes of RAM on the cheap version ($39) and 2k on the "Pro" version ($60) . Plus it's got hardware a UART, a builtin ADC, an interrupt and there's a version that's pin compatbile with the BS II. Compared to the BS II, it looks like a lot less hardware interfacing.

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Of course, I'd rather use a gumstix ('ARM' based linux computer about the size of 2 packs of gum) and do it in perl, but the thing eats too much power.

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73 de Troy KC0MIC

Mark Conner <mconner1@...> wrote: I checked into them a few years ago at the time I was looking for
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Not sure how much credence to put in those reports, but I ended up
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all this.

73 de Mark N9XTN

On 1/13/07, Troy Campbell <kc0mic@yahoo.com> wrote:
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>

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>
> Has anyone used a Basic Atom in their payloads?
>
> If so, what kind of experience have you had with them?
>

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2934. Large Ballooning Document

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-16 02:34:15 UTC
From: Brek Brixius
Topic: 2934 Message: 2934

I ran accross this this Meteorological Handbook No. 3 while searching on google. I thought I would let folks know. Might be that you all have stacks of it on the shelves already. But if not, its a lovely 191 page read (like I read it all - lol). B.5 on Page 82 as counted by Adobe Reader talks about some of the safety precautions gov. agencies are to use when dealing with hydrogen.

www.ofcm.gov/fmh3/pdf/00-entire-FMH3.pdf

Brek - KC0YOE

Expecting? Get great news right away with email Auto-Check.
Try the Yahoo! Mail Beta.

2935. Re: [Fwd: [Mw] Jupiter GPS receivers available]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 00:36:20 UTC
From: Mike Manes
Topic: 2935 Message: 2935

Done!

Folks, these are the same make, model and version that EOSS's has
been using for some time now. Good for 130,000 ft MSL and full
set of NMEA-0183 sentences at 4800-8N1 TTL serial interfaces directly
with KPC-3+ or TT3. Not bad for $10 @ qty 5. Runs on +5Vdc @ 150 mA
and supports gain antenna, altho works fine with passive quad helix.

73 de Mike W5VSI

S. Osborne wrote:
> The slick one does look nice - but it's sure not $10 a board. The seller
> has 'several hundred' units - enough for everybody !
>
> Tnx - 'YA
>
>
> -----Original Message-----
> From: Mike Manes [mailto:manes@...]
> Sent: Sunday, January 14, 2007 6:16 PM
> To: S. Osborne
> Subject: Re: [Fwd: [Mw] Jupiter GPS receivers available]
>
> Hi Steve,
>
> Don't you want first shot at 'em, or has your head been turned by that
> slick one that The Other Steve ('SCC) D&P'ed last meeting?
>
> 73 de Mike 'VSI
>
> S. Osborne wrote:
>> Hi Mike -
>>
>> I checked with the seller on these boards - they are the same boards we
> use,
>> (v1.80 software) except with a right angle OSX connector - pass the word
> !!
>> Tnx - The Other Steve KC0YA
>>
>> -----Original Message-----
>> From: Mike Manes [mailto:manes@...]
>> Sent: Wednesday, January 10, 2007 9:43 PM
>> To: Steve Osborne KC0YA; Steve Meer K0SCC; Larry Cerney K0ANI
>> Cc: EOSS_Trackers@yahoogroups.com
>> Subject: [Fwd: [Mw] Jupiter GPS receivers available]
>>

>> Such a deal! Not sure they're 2nd build good for 30 km MSL, tho
>> 73 de Mike W5VSI
>>
>> -------- Original Message --------
>> Subject: [Mw] Jupiter GPS receivers available
>> Date: Tue, 9 Jan 2007 17:55:08 -0700
>> From: Jerry Kleker <w7qx@...>
>> To: microwave valinet <microwave@...>
>>
>> I found some Jupiter 12 channel GPS receivers on ebay at a very nice
> price.
>> eBay # for single purchase for $15.00 = 320065630502
>>
>> eBay # for 5 units for $50.00 = 320065630951
>>
>> 73 es GL,
>>
>> Jerry W7QX
>>
>> _____
>> Microwave mailing list
>> microwave@...
>> http://www.valinet.com/mailman/listinfo/microwave
>>
>>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2936. RE: Jupiter GPS receivers available

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 15:24:44 UTC
From: mconner1@gmail.com
Topic: 2936 Message: 2936

If someone has an equally good deal on antennas to hook to these boards (right-angle OSX connector), please post the details.

Thanks to Mike, Steve, et al., for the info on the boards.

73 de Mark N9XTN

2937. Re: [GPSL] RE: Jupiter GPS receivers available

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 15:29:34 UTC
From: mgray@ess-us.com
Topic: 2936 Message: 2937

Check Synergy GPS and the AR-05

http://www.synergy-gps.com/content/view/25/48/

http://www.synergy-gps.com/images/stories/pdf/antar-05_tn880.pdf

They have an option for a RA OSX on that model. Very small and low power
as well. I think they still offer a 10% ham dicount.

On Wed, 17 Jan 2007 mconner1@... wrote:

> If someone has an equally good deal on antennas to hook to these boards (right-angle OSX connector), please post the details.
>
> Thanks to Mike, Steve, et al., for the info on the boards.
>
> 73 de Mark N9XTN
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

2938. Re: [GPSL] RE: Jupiter GPS receivers available

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 16:39:18 UTC
From: mconner1@gmail.com
Topic: 2936 Message: 2938

Dumb question - are OSX and MCX the same connector type? Seems to be, but I can't tell for sure.

It appears there's a size difference between MCX and MMCX, but haven't found anything saying so explicitly yet.

73 de Mark N9XTN

----- Original Message -----
From: mgray@...
Date: Wednesday, January 17, 2007 9:41 am
Subject: Re: [GPSL] RE: Jupiter GPS receivers available
To: GPSL@yahoogroups.com

> Check Synergy GPS and the AR-05
>
> http://www.synergy-gps.com/content/view/25/48/
>
> http://www.synergy-gps.com/images/stories/pdf/antar-05_tn880.pdf
>
> They have an option for a RA OSX on that model. Very small and
> low power
> as well. I think they still offer a 10% ham dicount.
>
>

2939. Re: [GPSL] RE: Jupiter GPS receivers available

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 17:09:51 UTC
From: mgray@ess-us.com
Topic: 2936 Message: 2939

Yes, OSX and MCX are the same. I think the OSX is the trade for M/A Com
or Omni-Spectra.

MMCX is the small version of the original MCX.

Here is a good link for all the different types:

http://www.microwaves101.com/encyclopedia/connectors.cfm

On Wed, 17 Jan 2007 mconner1@... wrote:

> Dumb question - are OSX and MCX the same connector type? Seems to be, but I can't tell
for sure.
>
> It appears there's a size difference between MCX and MMCX, but haven't found anything
saying so explicitly yet.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: mgray@...
> Date: Wednesday, January 17, 2007 9:41 am
> Subject: Re: [GPSL] RE: Jupiter GPS receivers available
> To: GPSL@yahoogroups.com
>
> > Check Synergy GPS and the AR-05
> >
> > http://www.synergy-gps.com/content/view/25/48/
> >
> > http://www.synergy-gps.com/images/stories/pdf/antar-05_tn880.pdf
> >
> > They have an option for a RA OSX on that model. Very small and
> > low power
> > as well. I think they still offer a 10% ham dicount.
> >
> >
>
>
>
> Yahoo! Groups Links
>
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2940. Re: [GPSL] RE: Jupiter GPS receivers available

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 19:31:55 UTC
From: Mike Manes
Topic: 2936 Message: 2940

MicroPulse may still be making the pill bottle quad helix antennas that they built for VIZ radiosondes. I clip of the flex circuit feedline and replace it with a short run of RG-174 coax. DigiKey or Mouser should stock the OSX connectors. They also have the 2x10 2mm sockets for the Jupiter header.

73 de Mike W5VSI

mconner1@... wrote:
> If someone has an equally good deal on antennas to hook to these boards (right-angle OSX connector), please post the details.
>
> Thanks to Mike, Steve, et al., for the info on the boards.
>
> 73 de Mark N9XTN
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2941. Re: [GPSL] RE: Jupiter GPS receivers available

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-17 19:35:12 UTC
From: Mike Manes
Topic: 2936 Message: 2941

Not sure. I suspect that OSX and MCX are the same, since the Jupiters
that we use have straight MCX connectors. Maybe Steve KC0YA knows for
sure.

73 de Mike W5VSI

mconner1@... wrote:
> Dumb question - are OSX and MCX the same connector type? Seems to be,
but I can't tell for sure.
>
> It appears there's a size difference between MCX and MMCX, but haven't
found anything saying so explicitly yet.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: mgray@...
> Date: Wednesday, January 17, 2007 9:41 am
> Subject: Re: [GPSL] RE: Jupiter GPS receivers available
> To: GPSL@yahoogroups.com
>
>> Check Synergy GPS and the AR-05
>>
>> http://www.synergy-gps.com/content/view/25/48/
>>
>> http://www.synergy-gps.com/images/stories/pdf/antar-05_tn880.pdf
>>
>> They have an option for a RA OSX on that model. Very small and
>> low power
>> as well. I think they still offer a 10% ham dicount.
>>
>>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2942. Antarctic balloon campaign: last update

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-19 20:56:29 UTC
From: Luis Eduardo Pacheco
Topic: 2942 Message: 2942
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2943. Re: [GPSL] GPSL 2007 contract pending...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-19 20:29:25 UTC
From: Mike Manes
Topic: 2780 Message: 2943

Hi Roger,

Still uncertain about actual totals for EOSS at GPSL 07, but my best guess is that we'll be showing with about 10 folks (+/-) for the Friday conference and Saturday launch. The buffet will be fine.

If you're arranging for Helium, we'll be using one T-bottle and would appreciate having a spare on hand in the unlikely event of a mishap during fill (best to keep Murphy at bay!).

Will keep you posted as more members firm up their plans.

73 de Mike W5VSI
Prez EOSS

Roger Hammond wrote:
> Hi gang!
>
> I received the contract from the Howard Johnson. I need to see a virtual
> show of hands for our two lunch options. Our choices are to order off of
> an abridged restaurant menu or choose a buffet, both of which will be
> served to us in another private room. I've attached a couple of .PDFs
> with all of the options. Price wise there isn't much difference between
> the menu or the buffet with two entrees. Tax and tip are not included,
> she did pencil in an amount alongside the two entree buffet to give us
> an idea of price w/ tax & tip.
>
> As for the request for a 'dutch ticket', it was denied. Apparently
> everyone will need to pay me the day of the event. She did say that they
> could set us up a cash box, so I could make change, if need be.
>
> Let's narrow the voting field by first deciding:
>
>
> * Menu or Buffet
>
> If buffet wins then we can decide on entrees etc.
>
>
> * I need a head count on those planning on attending GPSL 2007's
> conference & lunch.
>
>
> We have at least 15 guest rooms blocked for the event at a price of
> $65.95 per room.
> If we need more rooms, that can be arranged.

>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2944. Looks Like Bill Is Off The Ground

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-20 15:50:34 UTC
From: Joe
Topic: 2944 Message: 2944

[Body unavailable in the source archive]

2945. WB8ELK HiBall-10 video on the web

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-23 04:33:14 UTC
From: wb8elk@aol.com
Topic: 2945 Message: 2945

I've uploaded launch video showing my one-finger launch of HiBall-10 (only 10 oz of lift).

http://www.wb8elk.com (http://www.wb8elk.com/)

Click on the HiBall10 link

or

http://www.wb8elk.com/hiball10.htm (http://www.wb8elk.com/hiball10.htm)

or

Search for HiBall-10 on YouTube for just the launch video.

2946. RE: [GPSL] WB8ELK HiBall-10 video on the web

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-23 09:21:13 UTC
From: Rick von Glahn
Topic: 2945 Message: 2946

That was a pretty launch. So peaceful and relaxing! Not like a bunch of our launches where the balloons are developing 30 LBS lift and the winds are 8 to 10 knots. People holding the balloon are actually getting jerked around at launch sometimes. Nice going.

73 -- Rick, NØKKZ

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@aol.com
Sent: Monday, January 22, 2007 9:33 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] WB8ELK HiBall-10 video on the web

I've uploaded launch video showing my one-finger launch of HiBall-10 (only 10 oz of lift).

http://www.wb8elk.com <http://www.wb8elk.com/>

Click on the HiBall10 link

or

http://www.wb8elk.com/hiball10.htm

or

Search for HiBall-10 on YouTube for just the launch video.

2947. Re: [GPSL] WB8ELK HiBall-10 video on the web

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-23 15:46:39 UTC
From: Harry M
Topic: 2945 Message: 2947

Way too much seriousness in that launch!

:)

73 Harry KC5TRB

2948. Re: [GPSL] WB8ELK HiBall-10 video on the web

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-23 17:37:16 UTC
From: Zack Clobes
Topic: 2945 Message: 2948

It is a nice launch, but I still don't think the calm winds are
justification for going sans-gloves... :-) Rope burns suck.

Rick von Glahn wrote:
>
> That was a pretty launch. So peaceful and relaxing! Not like a bunch
> of our launches where the balloons are developing 30 LBS lift and the
> winds are 8 to 10 knots. People holding the balloon are actually
> getting jerked around at launch sometimes. Nice going.
>
>
> 73 -- Rick, N?KKZ
>
>
>
> ---
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> Behalf Of *wb8elk@...
> *Sent:* Monday, January 22, 2007 9:33 PM
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] WB8ELK HiBall-10 video on the web
>
> I've uploaded launch video showing my one-finger launch of
> HiBall-10 (only 10 oz of lift).
>
> http://www.wb8elk.com <http://www.wb8elk.com/>
>
> Click on the HiBall10 link
>
> or
>
> http://www.wb8elk.com/hiball10.htm
> <http://www.wb8elk.com/hiball10.htm>
>
> or
>
> Search for HiBall-10 on YouTube for just the launch video.
>
>

2949. GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-27 00:11:57 UTC
From: Roger Hammond
Topic: 2949 Message: 2949
Attachments: 1 described; binary payloads are missing from this source WARC

I had a request for a floor plan of the hotel / convention center. I've attached a .pdf of that document. The original they sent me was a .doc and was something like 9 MB! I thought everyone might appreciate something smaller, so I converted it before resending. Anyway, hopefully this will answer any questions. Conference is slated to be in the Cottonwood Room. Lunch will be in the Cedar/Locust Room.

Also, the group room rate of $65.95 is good Thursday, Friday, and Saturday. I'm checking to see if they'll honor that on Sunday, as well. Hopefully we won't need the weather day, you might all grow tired of Grand Island by then.

73 de Roger KCØMWM
www.cnnsp.org

2950. Re: [GPSL] GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-27 02:55:28 UTC
From: Harry M
Topic: 2949 Message: 2950

Thanks Roger!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2951. RE: [GPSL] GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-27 03:20:51 UTC
From: Roger Hammond
Topic: 2949 Message: 2951

You're welcome.
Let me know if that doesn't cover it.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry
M
Sent: Friday, January 26, 2007 8:55 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2007 Convention Center Layout

Thanks Roger!

73 Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members. <http://members.cox.net/hhm_74775/orb/>
cox.net/hhm_74775/orb/
http://groups.
<http://groups.yahoo.com/group/oklahoma_research_balloons/join>
yahoo.com/group/oklahoma_research_balloons/join

2952. Re: [GPSL] GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-27 04:04:05 UTC
From: Harry M
Topic: 2949 Message: 2952

You think they might have a room layout too!

> You're welcome.
> Let me know if that doesn't cover it.

2953. Re: [GPSL] GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-27 05:54:37 UTC
From: Mike Manes
Topic: 2949 Message: 2953

Thanks, Roger!
My dialup service appreciates the consideration!
BTW, imagine the file size had it been an .rtf!!
73 de Mike W5VSI

Roger Hammond wrote:
> I had a request for a floor plan of the hotel / convention center. I've
> attached a .pdf of that document. The original they sent me was a .doc
> and was something like 9 MB! I thought everyone might appreciate
> something smaller, so I converted it before resending. Anyway, hopefully
> this will answer any questions. Conference is slated to be in the
> Cottonwood Room. Lunch will be in the Cedar/Locust Room.
>
> Also, the group room rate of $65.95 is good Thursday, Friday, and
> Saturday. I'm checking to see if they'll honor that on Sunday, as well.
> Hopefully we won't need the weather day, you might all grow tired of
> Grand Island by then.
>
> 73 de Roger KCØMWM
> www.cnnsp.org <http://www.cnnsp.org>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2954. Re: [GPSL] GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-27 16:20:45 UTC
From: Mark Conner
Topic: 2949 Message: 2954

Roger,

Did you find out if there was WiFi access in the conference room?

Will we have tables with chairs in the conference room, just chairs, or what? If we have tables, it might be worthwhile to bring some extension cords and power strips so people can plug in their laptops. I can probably round a few up from home and bring them with me if needed.

73 de Mark N9XTN

2955. New URL for Edwards AFB aviation weather

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-28 20:06:01 UTC
From: Ralph Wallio, W0RPK
Topic: 2955 Message: 2955

Edwards AFB has made major changes to their web pages (http://www.edwards.af.mil/). One result is
that access to aviation weather information from the 412th OSS Weather Flight has moved to https://bsx.edwards.af.mil/weather/noframes.htm. Computer forecast models are now available via
https://bsx.edwards.af.mil/weather/models.htm.

One model product family of particular interest to ARHAB is Global Forecast System (GFS) CONUS winds
aloft wind barb charts now available via
https://bsx.edwards.af.mil/weather/avnmodel00.htm.
Forecast charts are available in 6hr increments out to 72hrs, 5,000-102,000ft (FL050-FL1020).

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2956. RE: [GPSL] GPSL 2007 Convention Center Layout

Yahoo group: GPSL (2002 — 2008)
Date: 2007-01-29 03:31:19 UTC
From: Roger Hammond
Topic: 2949 Message: 2956

Mark,

During my first meeting with the HOJO rep, she said there was WiFi throughout.
The conference room will be set up in a classroom format with tables and chairs.
I might be able to scrape up a plug strip or two, I might ask the hotel if they have any available, as well.

Roger KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Saturday, January 27, 2007 10:21 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2007 Convention Center Layout

Roger,

Did you find out if there was WiFi access in the conference room?

Will we have tables with chairs in the conference room, just chairs, or what? If we have tables, it might be worthwhile to bring some extension cords and power strips so people can plug in their laptops. I can probably round a few up from home and bring them with me if needed.

73 de Mark N9XTN

2957. Very cool image from the ISS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-02 15:48:06 UTC
From: mconner1@gmail.com
Topic: 2957 Message: 2957

http://earthobservatory.nasa.gov/Newsroom/NewImages/images.php3?img_id=17542

At first I thought this was from a high-altitude balloon.

73 de Mark N9XTN

2958. Re: [GPSL] Very cool image from the ISS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-02 16:28:08 UTC
From: Harry M
Topic: 2957 Message: 2958

I wonder what the white spot is below the moon and above the earth.

Star... Spacecraft... Balloon...???

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/
http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

2959. Re: [GPSL] Very cool image from the ISS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-02 16:50:46 UTC
From: mconner1@gmail.com
Topic: 2957 Message: 2959
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

2960. Re: [GPSL] Very cool image from the ISS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-02 16:56:35 UTC
From: Harry M
Topic: 2957 Message: 2960

> ...My guess is that's it's a bad pixel in the camera CCD.

That's what they get for getting a cheap "resale shop" camera!

:)

73 Harry

2961. Thermochron source

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-15 04:08:19 UTC
From: Mark Conner
Topic: 2961 Message: 2961

I found a store that has Dallas iButton thermochrons in stock. After my order today, they have about 7 left. You might want to check their stock before placing your own order. These are not the extended-range thermochrons that go to -55C, but only down to -40C.

http://www.logictechs.com/LCTstore/product.php?id_product=4

The Maxim website says 3-13 weeks lead time required, depending on model.

73 de Mark N9XTN

2962. "Space Balloons" on Discovery Channel NOW

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-18 01:09:50 UTC
From: Mark Conner
Topic: 2962 Message: 2962

A show titled "Space Balloons" is on Discovery Channel right now (7pm CST Saturday). It'll be run again at 11pm CST. I presume it's about the various NASA near-space programs, but who knows. I'm DVRing it now.

73 de Mark N9XTN

2963. Re: [tvnsp] "Space Balloons" on Discovery Channel NOW

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-18 02:15:14 UTC
From: Harry M
Topic: 2963 Message: 2963

Thanks Mark!

It will be on again this evening if anyone missed the first one!
http://dsc.discovery.com/tvlistings/schedule.jsp?channel=DSC&date=today

73 Harry KC5TRB

2964. Anyone want to make a balloon?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-02-22 02:56:05 UTC
From: Joe
Topic: 2964 Message: 2964

Hey check this out,, I wonder how much raw liquid latex costs?

and I wonder how much these sell for/

http://www.1stdibs.com/furniture_item_detail.php?id=108219

Joe

2965. Re: [Balloons-Rockets] regulations, Canada

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-06 04:33:31 UTC
From: Mike Manes
Topic: 2965 Message: 2965

Hi David,

I haven't seen a response to your inquiry here, but I think
that there's at least one VE balloon group active. So I've
copied the GPSL Balloon Sked reflectors and Ralph Wallio,
W0RPK, the ad hoc ARHAB archivist.

73 de Mike W5VSI, EOSS

David wrote:
> Greetings all, I have just signed on the list and a few of us are looking to try some telemetry via balloon. I would like to know if there are any Canadians on board to verify what we have learned so far on the regulations.
> This will be our first balloon and it will be something simple like building an accelerometer ,FM transmitter and temp.
> We will be tome modulating the FM with the infor from the accelerometer and temperature transducer.
> We hope to launch on a perfectly calm day for the first run and to bring the payload back down nearby.
> The next try will be on less calm day and inform our friends in the eastern US and Canada to watch out for our ID and try to track it for us.
> Hope to hear from you.
>
> cheers David ve3bbn
> _____
> Balloons-Rockets mailing list
> Balloons-Rockets@...
> http://mailman.qth.net/mailman/listinfo/balloons-rockets
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2966. LCANS Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-07 22:00:04 UTC
From: PAUL VERHAGE
Topic: 2966 Message: 2966

Is anyone planning to attend the LCANS conference in Boulder at the end of April? LCANS stands for low cost access to near space and the conference is hosted by the Southwest Research Institute (SwRI).

Paul

2967. Re: [GPSL] LCANS Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-08 00:19:35 UTC
From: Mike Manes
Topic: 2966 Message: 2967

Hi Paul,

Yeah, I'll be presenting on low-cost payload design, and Chris Koehler
Dir Colo SGC will be presenting on student balloonacy stuff.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Is anyone planning to attend the LCANS conference in Boulder at the end
> of April? LCANS stands for low cost access to near space and the
> conference is hosted by the Southwest Research Institute (SwRI).
>
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2968. Re: [GPSL] LCANS Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-08 00:47:32 UTC
From: wb8elk@aol.com
Topic: 2966 Message: 2968

I wasn't aware of this one...can someone send me a link to it? - Bill WB8ELK

****
AOL now offers free email to everyone. Find out more about what's free from AOL at http://www.aol.com.

2969. Re: [GPSL] LCANS Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-08 01:43:06 UTC
From: Joe Lynch
Topic: 2966 Message: 2969

Hi Bill,

Here is the link you requesed: http://www.boulder.swri.edu/LCANS/.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

2970. Re: [GPSL] LCANS Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-08 01:30:01 UTC
From: Mike Manes
Topic: 2966 Message: 2970

Hi Bill,

It's:

www.boulder.swri.edu/LCANS

73 de Mike W5VSI

wb8elk@... wrote:
> I wasn't aware of this one...can someone send me a link to it?
>
> - Bill WB8ELK
>
>
>
> ---
> AOL now offers free email to everyone. Find out more about what's free
> from AOL at *AOL.com*
> <http://pr.atwola.com/promoclk/1615326657x4311227241x4298082137/aol?redir=http%3A%2F%2Fww%2Eaol%2Ecom>.
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2971. GPSL 2007 luncheon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-10 17:54:57 UTC
From: Roger Hammond
Topic: 2971 Message: 2971

Hello everyone! As we get a little closer to the conference date, I thought I should try and get a few more details ironed out. It was unanimous that we go with the buffet for the conference luncheon. I uploaded the buffet choices to the files area this morning in the GPSL 2007 folder. Rather than to ask everyone their opinion on what should be included in the buffet, I thought I would come up with a plan and then see if there was any serious opposition. Here are our suggestions based on past experience (they catered our wedding reception in 2000) and making an attempt to offer some choices for those with dietary concerns.

2 entrees:
MeltAway Pot Roast and Stuffed Chicken Breast

2 salads:
Garden Salad and Fresh Fruit Bowl / Tray

3 sides:
Baby New Potatoes, AuGratin Potatoes, and California Medley

If you have a strong opinion one way or the other, feel free to email me on or off list.

****
****

We're leaning towards a Mexican restaurant for the Thursday evening meal. El Tapatio is just a little north of the Howard Johnson and is one of the local favorites. The Friday evening meal will likely be at a local Italian / Pizza place, Valentinos. Valentinos is a Nebraska-based chain that offers a buffet including pizza, pasta, salads, tacos, and desserts. I'm still trying to figure out what and where for the Saturday meals.

Looking forward to seeing you all in July.

73 de Roger KCØMWM
rahammond@...
www.cnnsp.org

2972. 40m astronomy/space/ARHAB net

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-10 18:23:34 UTC
From: Mike Manes
Topic: 2972 Message: 2972

-------- Original Message --------
Subject: Astronomy/Space Discussion
Date: Sat, 10 Mar 2007 06:21:28 -0800
From: Brian Webb <kd6nrp@...>
To: Brian Webb <kd6nrp@...>

Good Morning:

For those of you who are not only amateur astronomers, but also amateur radio operators, you might be interested in the following on-air astronomy/space discussion group:

1. Date: Sunday, March 11

2. Time: 12:00 PDT/19:00 UTC (PDT begins tomorrow morning)

3. Frequency (KHz): 7,247.0 (primary)

7,230.0 (backup)

7,212.0 (backup)

4. Mode: LSB

5. Topics: Astronomy, astronmical observing, astronomical events, telescopes and accessories, solar-terrestrial interaction, civlian (non-military) space activities, high altitude amateur balloons, high altitude amateur rockets, radio astronomy, amateur satellites, etc.

I hope to hear you on the air tomorrow.

73

Brian Webb, KD6NRP
Ventura County, CA

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2973. Re: [GPSL] GPSL 2007 luncheon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-11 00:18:36 UTC
From: Harry M
Topic: 2971 Message: 2973

I have no problem with the plan so far.
Thanks for all your hard work getting things ironed out Roger!

73 Harry KC5TRB

2974. Re: [GPSL] GPSL 2007 luncheon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-11 05:57:47 UTC
From: wb8elk@aol.com
Topic: 2971 Message: 2974

Wow...that made me hungry just reading the menu !!!!...sounds great to me just the way it is. - Bill WB8ELK

****
AOL now offers free email to everyone. Find out more about what's free from AOL at http://www.aol.com.

2975. [Fwd: [Mw] JUPITER GPS RECEIVERS still available on eBay]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-11 17:08:49 UTC
From: Mike Manes
Topic: 2975 Message: 2975

I think these Jupiters are good to 130,000' MSL.
73 de Mike W5VSI

-------- Original Message --------
Subject: [Mw] JUPITER GPS RECEIVERS still available on eBay
Date: Sat, 10 Mar 2007 13:18:44 -0700
From: Jerry Kleker <w7qx@...>
To: microwave valinet <microwave@...>,
<moon-net@...>, moon <moon@...>

On eBay there are still quite a few of the "CONEXANT NAVMAN ROCKWELL JUPITER GPS TU30 D140" receivers available at a good price, individually or in 5 packs. This is the model that we have been using for VCTXO locking and etc.

Look at eBay items numbers 320086778609 (5 pack) and 320086778737 (single receiver).

73,

Jerry W7QX

_____
Microwave mailing list
microwave@...
http://www.valinet.com/mailman/listinfo/microwave

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2976. Re: [GPSL] GPSL 2007 luncheon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-12 13:32:30 UTC
From: PAUL VERHAGE
Topic: 2971 Message: 2976

The choices sound fine.

Thanks,
Paul

>>> "Roger Hammond" <rahammond@...> 3/10/2007 10:54:57 am >>>
Hello everyone! As we get a little closer to the conference date, I
thought
I should try and get a few more details ironed out. It was unanimous
that we
go with the buffet for the conference luncheon. I uploaded the buffet
choices to the files area this morning in the GPSL 2007 folder. Rather
than
to ask everyone their opinion on what should be included in the buffet,
I
thought I would come up with a plan and then see if there was any
serious
opposition. Here are our suggestions based on past experience (they
catered
our wedding reception in 2000) and making an attempt to offer some
choices
for those with dietary concerns.

2 entrees:
MeltAway Pot Roast and Stuffed Chicken Breast

2 salads:
Garden Salad and Fresh Fruit Bowl / Tray

3 sides:
Baby New Potatoes, AuGratin Potatoes, and California Medley

If you have a strong opinion one way or the other, feel free to email
me on
or off list.

****
****

We're leaning towards a Mexican restaurant for the Thursday evening
meal. El
Tapatio is just a little north of the Howard Johnson and is one of the
local
favorites. The Friday evening meal will likely be at a local Italian /
Pizza
place, Valentinos. Valentinos is a Nebraska-based chain that offers a
buffet

including pizza, pasta, salads, tacos, and desserts. I'm still trying
to
figure out what and where for the Saturday meals.

Looking forward to seeing you all in July.

73 de Roger KC?MWM
rahammond@...
www.cnnsp.org

2977. Re: [Balloon_Sked] Floater with 10m beaacon aloft - please listen

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-15 19:48:51 UTC
From: wb8elk@aol.com
Topic: 2977 Message: 2977

By looking at the Raw Data on Findu....Robert's balloon is still flying and approaching New England from the looks of the digipeaters. Those in New England should listen to the 10m CW beacon on 28.636 MHz. It was still flying as of 3:45 pm EDT.

Telemetry format (sent every 2 minutes) :
DE KA2QPG BLN GPA/SD2 UP 14H34M A 033 T NEG 55C L 204 B 8.7V

EMAIL PT AT _RIFTON.COM_ (http://rifton.com/) AR

where:

UP = flight time in hours and minutes

a = altimeter (absolute pressure [higher # = lower alt], 0 - 255)

T = outside temperature (-99 - 99 degrees C)

L = light level (0 - 255, uncalibrated)

B = battery voltage (0.0 - 9.9 volts)

The remaining time in the 2-minute cycle will have a Morse "dit" and a beep of the piezo sounder every 4 seconds.

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2978. Re: [Balloon_Sked] Floater with 10m beacon aloft - estimated to be over Maine

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-15 22:33:01 UTC
From: wb8elk@aol.com
Topic: 2978 Message: 2978

Mark,

10 meters is not open at this time, but if you listen to 28.200 through 28.300 and hear the propagation beacons, then the band might be open..it's hit and miss now during sunspot low doldrums....only direct line of sight reception reports are coming in mostly from Maine. I estimate from my estimated ground tracks and reception reports on APRS digipeaters as well as ground stations on HF that it is currently over Maine....probably floating around 20,000 feet based on how it's tracking the prediction plots and also the external temp readings.

Here's the info on the balloon.

By looking at the Raw Data on Findu....Robert'By looking at the Raw Data on Findu....Robert'<WBR>s balloon is still flying and approaching New England from the looks of the digipeaters New England should listen to the 10m CW beacon on 28.636 MHz (currently best heard on 28.635 MHz). It was still flying as of 6:23 pm EDT and is estimated to be in Maine. We could use some beam headings however to try to narrow the location down since the GPS is not working.

One trick might be to look for the 5th harmonic of the 10m signal on 143.18 MHz and track it with a 2 meter beam...but it will be weak.

Raw Data on Findu from 144.39 APRS (callsign KC8UCH-11):

http://www.findu.com/cgi-bin/raw.cgi?call=KC8UCH-11&time=1 (http://www.findu.com/cgi-bin/raw.cgi?call=KC8UCH-11&time=1)

The 10 meter beacon has the callsign: KA2QPG and transmits as follows:

Telemetry format (sent every 2 minutes) :

DE KA2QPG BLN GPA/SD2 UP 14H34M A 033 T NEG 55C L 204 B 8.7V EMAIL PT AT _RIFTON.COM_ (http://rifton.com/) AR where: UP = flight time in hours and minutes a = altimeter (absolute pressure

[higher # = lower alt], 0 - 255) T = outside temperature (-99 - 99 degrees C) L = light level (0 - 255, uncalibrated) B = battery voltage (0.0 - 9.9 volts)
The remaining time in the 2-minute cycle will have a Morse "dit" and a beep of the piezo sounder every 4 seconds.

- Bill WB8ELK

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2979. Balloon estimated now to be on the Maine - New Brunswick Canadian border

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-15 23:57:33 UTC
From: wb8elk@aol.com
Topic: 2979 Message: 2979

Based on reception now by a digipeater in Prince Edward Island and only Nova Scotia digis....I'd say it is right on the border with Maine and New Brunswick, Canada....my altitude estimate based on the external temperature of -41 C would indicated that the ballast did indeed work and it's now floating at 29,000 feet...probably will do so all night and all the next day until sunset tomorrow....so Europe...look out for this. The flight path will take it over New Brunswick and then to Newfoundland later tonight.

The APRS transmitter is showing -40 C internal temp and batteries are freezing up and getting low...it just recently reset and now shows a position in Tokyo, Japan.....however, the GPS is not working and hasn't worked throughout the mission. Who knows, he may eventually go to Tokyo.

The 10 meter beacon is still being received in Maine on 28.635 MHz as of 2356z.

- Bill WB8ELK

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2980. KC8UCH balloon appears to have landed

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-16 02:33:47 UTC
From: wb8elk@aol.com
Topic: 2980 Message: 2980

At 0206z, the balloon appears to have landed as it dropped out of the digipeaters in New Brunswick and Prince Edward Island at about the same time. The inside temperature was just about at outside ground temps so it very likely has landed or is about to do so.

The KA2QPG 10m beacon was working well and should still be operating for quite some time...so listen in on 28.635 MHz and if the band opens up, you might hear it the next few days. I would estimate it has landed between St. Johns, New Brunswick and Prince Edward Island.

73s de Bill WB8ELK

Raw data link on Findu:

http://www.findu.com/cgi-bin/raw.cgi?call=KC8UCH-11&time=1
(http://www.findu.com/cgi-bin/raw.cgi?call=KC8UCH-11&time=1)

By the way, Appending &time=1 gets you the time that digipeater hear the signal

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2981. Re: [GPSL] KC8UCH balloon appears to have landed

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-16 04:05:28 UTC
From: Hank Riley
Topic: 2980 Message: 2981

It's interesting and encouraging that the battery voltage
has rebounded, upon warmup and descent, very close to its
condition on ascent nearly 11 hours earlier when it first
encountered -5 Celsius (times UTC).

Hank

15:39 7.9V -05C (23 Fahrenheit)

15:42 7.5V -13C (8.6 Fahrenheit)
17:24 7.4V -13C
18:04 7.2V -13C

23:46 5.8V -40C (-40 Fahrenheit, lowest temperature)

----------warmup phase----------

01:40 7.3V -13C
01:41 7.5V -13C
01:42 7.5V -13C

02:06 7.7V -05C (last digipeated transmission)

Need Mail bonding?
Go to the Yahoo! Mail Q&A for great tips from Yahoo! Answers users.
http://answers.yahoo.com/dir/?link=list&sid=396546091

2982. CBC story on lost high-altitude balloon in the Maritimes

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-20 18:13:21 UTC
From: mconner1@gmail.com
Topic: 2982 Message: 2982

This story is regarding Robert KC8UCH's recent flight.

73 de Mark N9XTN

==========

http://www.cbc.ca/canada/nova-scotia/story/2007/03/20/nb-balloon.html

New Brunswick amateur radio operators are on the lookout for a high-altitude balloon believed to have come down somewhere in the Maritimes, after being launched as an experiment by a Michigan Grade 5 class.

2983. Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 02:43:27 UTC
From: David Wilson
Topic: 2983 Message: 2983

Greetings all, It was great to hear that the KC8UCH flight may be found soon. I belong to a Canadian ARC known as NPARC (Niagara Peninsula Amateur Radio Club)and we are in the process of putting together our first package. The balloon will have 115 cuft capacity and a lift-off weight of 5 ponds.The payload telemetry will consist of battery level and
outside temperature, which will be sent to the ground on a 2meter link. There will be a second FM transmitter sending the pulses for detection when the payload is jettisoned. It will also operate in the 2 meter band.
There will also be a digital camera set to take a video of the take-off and run until the memory is full or the unit freezes up (whichever comes first).
The payload will be dropped from the balloon on a signal from ground and hopefully recovered intact.
I am interested in the battery supply others are using. Naturally we need as much mah as we can get with the least weight.
what type have others used? Any help and input would be greatly appreciated.

cheers David ve3bbn

2984. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 03:23:57 UTC
From: wb8elk@aol.com
Topic: 2983 Message: 2984

David,

Perhaps the easiest and most readily available batteries I can recommend is the lithium AA batteries you can find just about anywhere such as Walmart or Lowes....a very complete datasheet link follows:

http://data.energizer.com/PDFs/l91.pdf
(http://data.energizer.com/PDFs/l91.pdf)

Just package them up in some battery holders from Radio Shack and you have a nice lithium pack that's a lot easier to build up than hacking into the old military lithium packs....and a lot safer too.

- Bill WB8ELK

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2985. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 03:28:58 UTC
From: Harry M
Topic: 2983 Message: 2985

Hi David,

Good luck on your ballooning efforts.

I have used nothing but Eveready Energizer 9v batteries for all my power needs up to this point and have never had any problems. I have used them in serial and parallel configurations. I did use an Eveready 6v lithium camera battery one time. One of the two cells ruptured due to the lack of pressure at altitude.

GLuck! & 73
Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Group - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> I am interested in the battery supply others are using. Naturally we need
> as much mah as we can get with the least weight. what type have others
> used? Any
> help and input would be greatly appreciated.

2986. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 12:56:45 UTC
From: David
Topic: 2983 Message: 2986

Hi Harry es tnx fer the input on ur battery info.

cheers david ve3bbn

----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Tuesday, March 20, 2007 11:28 PM
Subject: Re: [GPSL] Balloon Launch

Hi David,

Good luck on your ballooning efforts.

I have used nothing but Eveready Energizer 9v batteries for all my power needs up to this point and have never had any problems. I have used them in serial and parallel configurations. I did use an Eveready 6v lithium camera battery one time. One of the two cells ruptured due to the lack of pressure at altitude.

GLuck! & 73
Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Group - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

> I am interested in the battery supply others are using. Naturally we need
> as much mah as we can get with the least weight. what type have others
> used? Any
> help and input would be greatly appreciated.

2987. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 12:58:29 UTC
From: David
Topic: 2983 Message: 2987

Hi Bill and thanks for the info on the batteries.

cheers David ve3bbn

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Cc: ve3bbn@...
Sent: Tuesday, March 20, 2007 11:23 PM
Subject: Re: [GPSL] Balloon Launch

David,

Perhaps the easiest and most readily available batteries I can recommend is the lithium AA batteries you can find just about anywhere such as Walmart or Lowes....a very complete datasheet link follows:

http://data.energizer.com/PDFs/l91.pdf

Just package them up in some battery holders from Radio Shack and you have a nice lithium pack that's a lot easier to build up than hacking into the old military lithium packs....and a lot safer too.

- Bill WB8ELK

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2988. liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 13:06:11 UTC
From: David
Topic: 2988 Message: 2988

Greetings all, I forgot to ask the group about liability insurance. what coverage dooes your group have ? and what approx. is the cost?

cheers David ve3bbn

2989. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 15:28:00 UTC
From: Harry M
Topic: 2988 Message: 2989

David, I do not have insurance.

Harry KC5TRB

> Greetings all, I forgot to ask the group about liability insurance. what
> coverage dooes your group have ? and what
> approx. is the cost?

2990. Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 14:54:43 UTC
From: D
Topic: 2983 Message: 2990

--- In GPSL@yahoogroups.com, "David Wilson" <ve3bbn@...> wrote:
>
> Greetings all, It was great to hear that the KC8UCH flight may be
> found soon. I belong to a Canadian ARC known as NPARC (Niagara
> Peninsula Amateur Radio Club)and we are in the process of putting
> together our first package.

Cool!

One of the sticky points may be consideration of what happens
if your balloon drifts across the US border. I think that it
would need to comply with the US FAR (Federal Air Regulations) Part
101 [3]:

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=8b5584c0cf53c0a4f4a5615491e1be66
&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.1.9.1>

Do you know what the Canadian equivalent is (and have a link) [4]?

[3] And, one certainly hopes that it wouldn't land in Boston, since
it would almost certainly be regarded as a terrorist device and
exploded. :-(In any case, it probably would be a good idea to
label the package really well.

[4] This is more than just idle questioning, since I have relatives
in Canada, and might want to expose them to the joys of balloon
launching one of these days.

> The balloon will have 115 cuft capacity and a lift-off weight of 5
> pounds. The payload telemetry will consist of battery level and
> outside temperature, which will be sent to the ground on a 2meter
> link.

Sounds like a good start. Some other things you may want to think
about for future launches would be things like battery temperature
(which would indicate how well your insulation is working),
illumination levels (How much brighter does it get as you go
up [1]?), and humidity levels (although this is probably moot once
the temperature drops below freezing) [2].

[1] This will probably require an integrating sphere to minimize
problems with light directionality. It might also be interesting
to measure UV versus visible (versus infrared?) levels, too.

[2] And, this may not be something that's easy to measure.

> There will be a second FM transmitter sending the pulses for
> detection when the payload is jettisoned. It will also operate

> in the 2 meter band.

Seems to be a reasonable band choice. Will the dropped payload
have a GPS unit on it, or is it to be found with RDF (Radio
Direction Finding) only? I'm assuming that the dropped payload
will float down via parachute (Glider?).

> There will also be a digital camera set to take a video of the
> take-off and run until the memory is full or the unit freezes up
> (whichever comes first).

Should be some interesting pictures/video.

> The payload will be dropped from the balloon on a signal from
> ground and hopefully recovered intact.

What's the drop mechanism?

> I am interested in the battery supply others are using. Naturally
> we need as much mah as we can get with the least weight.

Once you have some ideas, it may be a good idea to test some of
the packages by tossing the payload in a deep freezer to see how
much voltage drop you get at decreased temperatures. That may also
give you an indication of how well any thermal insulation is working
for the payload package.

For that matter, it might also be a good way to test the
drop/cutdown mechanism, since mechanical things tend to not work
well at the extreme cold temperatures found at altitude (and, we'd
all hate to see your payload floating out over the Atlantic, never
to be seen again!).

> what type have others used? Any help and input would be greatly
> appreciated.
>
> cheers David ve3bbn

In any case, best of luck to your launch.

Dave
WA4QAL

2991. Re: liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 15:02:50 UTC
From: D
Topic: 2988 Message: 2991

--- In GPSL@yahoogroups.com, "David" <ve3bbn@...> wrote:
>
> Greetings all, I forgot to ask the group about liability insurance.
what coverage dooes your group have ? and what approx. is the cost?
>
> cheers David ve3bbn

IANAL (I Am Not A Lawyer):

One approach is to incorporate your club, and use it as a liability shield against suits (If you get sued, then they may win the suit, even by default, but the liability is limited to the assets of the corporation.).

Another approach is to launch under the auspices of a government body (school/state university/etc.), under the assumption of sovereign immunity (although there are a LOT of restrictions on this):

http://en.wikipedia.org/wiki/Sovereign_immunity

Of course, both of these approaches have problems, and the laws almost certainly differ greatly between countries (and even states/provinces).

You may also want to talk to your insurance agent about specific coverage, or a blanket/umbrella policy to cover your activities.

In any case, be certain that you comply with all of the appropriate laws.

Dave
WA4QAL

P.S. I am still not a lawyer, so any advice I've offered (along with about US$5) will get you a cup of coffee in some places. :-)

2992. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 15:33:01 UTC
From: Ralph Wallio, W0RPK
Topic: 2988 Message: 2992

David --

To my knowledge no group has acquired liability insurance for their flights. A few groups have
investigated the possibility but all have found premiums to be too high to accept. (Groups: If
there are exceptions to this please post your insurance information.)

Insurance available to ARRL members does not cover high altitude ballooning. Several years ago AMA,
the American Modelers Association, did not want to consider the possibility of covering amateur high
altitude ballooning.

I have been told that homeowners insurance would cover claims against individual policy holders (not
groups) resulting from high altitude ballooning. I asked for and received letters from my agent and
insurance company stating same. However, I have not heard of others having a similar experience let
alone actually having a claim paid.

Employees, even part time employees, of school districts, colleges and universities are covered by
their liability insurance. The situation is not so clear cut for volunteer advisers to institutional high altitude ballooning programs. I have asked for and received letters from institutions stating that their liability insurance would cover my volunteer participation.

TNX es 73 de Ralph Wallio, WORPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

2993. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 19:25:38 UTC
From: wb8elk@aol.com
Topic: 2988 Message: 2993

I looked into insurance coverage specifically for balloon flights....we were looking into insurance for our last rockoon flight over the ocean....(rocket fired from a balloon at 70,000 feet).....however, the insurance costs estimate for this mission was about $3000 or more per mission, but this was a very large balloon (512,000 cubic feet zero pressure and a 300 pound rocket)....this was from a company in Texas that does insurance specifically for scientific ballooning...smaller ARHAB style missions may be quite a bit less to cover...I will try to find their information and will email to you. I've been told that Lloyd's of London will also do insurance but expect the cost to far exceed your payload costs. I think the homeowner's policy letter might be the best way to go....and affiliating with a local school or university is a very good idea and would most likely cover you....contact them and see if they want to fly an experiment with you. I help volunteer for the local University here as they do a special Balloonsat class for senior EE students which gives them hands-on experience in design and practical application...it's considered their senior design project.

The way most groups do it, is to stack the odds in their favor by looking closely at the Balloon Track predicted flight path and make sure your launchsite keeps your landing site away from any large city or town. Balloon Track can be downloaded from the EOSS website: _http://www.eoss.org_ (http://www.eoss.org) You can also use the online BalloonTrack at: _http://www.nearspaceventures.com_ (http://www.nearspaceventures.com)

- Bill WB8ELK

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2994. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 06:58:42 UTC
From: Mike Manes
Topic: 2983 Message: 2994

Hi David,

GL on your first flight! Sounds as though you have the right set
of beacons, but what freqs will they be on?

LiSO2 primary cells have proven to operate quite well in balloon
payloads. They have excellent energy density and low-temperature
tolerance compared to other chemistries. You can buy them new as
CR123 Li camera batteries, or more bang for the buck as surplus
BA-5513/U batteries - the individual cells operate at about 2.7
at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
bad for 85 gm per cell and US$2 per cell. A camera store in NYC
sells them, but can't recall the name - try Googling BA-5513/U.

I assume that you have a parachute for your descent? A 1.8m diameter
conical should be about right for that payload. If you want to get
the payloads back, recommend deploying a recovery team around the
landing site as predicted by WinBallTrack, downloadable from
www.eoss.org.

73 de Mike W5VSI
Prez EOSS

David Wilson wrote:
> Greetings all, It was great to hear that the KC8UCH flight may be
> found soon. I belong to a Canadian ARC known as NPARC (Niagara
> Peninsula Amateur Radio Club)and we are in the process of putting
> together our first package. The balloon will have 115 cuft capacity
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> There will be a second FM transmitter sending the pulses for
> detection when the payload is jettisoned. It will also operate in the
> 2 meter band.
> There will also be a digital camera set to take a video of the take-off
> and run until the memory is full or the unit freezes up (whichever
> comes first).
> The payload will be dropped from the balloon on a signal from ground
> and hopefully recovered intact.
> I am interested in the battery supply others are using. Naturally we
> need as much mah as we can get with the least weight.
> what type have others used? Any help and input would be greatly
> appreciated.
>
> cheers David ve3bbn
>

>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2995. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 22:36:46 UTC
From: David
Topic: 2988 Message: 2995

Thanks again Bill, valuable info and thanks for the tracking program

cheers David ve3bbn

----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Cc: ve3bbn@...
Sent: Wednesday, March 21, 2007 3:25 PM
Subject: Re: [GPSL] liability insurance

I looked into insurance coverage specifically for balloon flights....we were looking into insurance for our last rockoon flight over the ocean....(rocket fired from a balloon at 70,000 feet).....however, the insurance costs estimate for this mission was about $3000 or more per mission, but this was a very large balloon (512,000 cubic feet zero pressure and a 300 pound rocket)....this was from a company in Texas that does insurance specifically for scientific ballooning...smaller ARHAB style missions may be quite a bit less to cover...I will try to find their information and will email to you. I've been told that Lloyd's of London will also do insurance but expect the cost to far exceed your payload costs. I think the homeowner's policy letter might be the best way to go....and affiliating with a local school or university is a very good idea and would most likely cover you....contact them and see if they want to fly an experiment with you. I help volunteer for the local University here as they do a special Balloonsat class for senior EE students which gives them hands-on experience in design and practical application...it's considered their senior design project.

The way most groups do it, is to stack the odds in their favor by looking closely at the Balloon Track predicted flight path and make sure your launchsite keeps your landing site away from any large city or town. Balloon Track can be downloaded from the EOSS website: http://www.eoss.org You can also use the online BalloonTrack at: http://www.nearspaceventures.com

- Bill WB8ELK

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2996. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 22:45:04 UTC
From: David
Topic: 2988 Message: 2996

Hi Ralph, nice to hear from you. I am starting to be concerned about the happening of this flight. People nowadays are so scared to do just about anything that can come back to bite them. I guess in a sense all the insurance in the world wouldn't cover the downing of a 767 or the likes of it. i know there hasn't been an issue like this happening but they would be afraid they would make the Guiness book of records by bringing down an aircraft with a balloon.

Cheers David ve3bbn
----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
To: "GPSL" <GPSL@yahoogroups.com>
Sent: Wednesday, March 21, 2007 11:33 AM
Subject: Re: [GPSL] liability insurance

> David --
>
> To my knowledge no group has acquired liability insurance for their
> flights. A few groups have
> investigated the possibility but all have found premiums to be too high to
> accept. (Groups: If
> there are exceptions to this please post your insurance information.)
>
> Insurance available to ARRL members does not cover high altitude
> ballooning. Several years ago AMA,
> the American Modelers Association, did not want to consider the
> possibility of covering amateur high
> altitude ballooning.
>
> I have been told that homeowners insurance would cover claims against
> individual policy holders (not
> groups) resulting from high altitude ballooning. I asked for and received
> letters from my agent and
> insurance company stating same. However, I have not heard of others
> having a similar experience let
> alone actually having a claim paid.
>
> Employees, even part time employees, of school districts, colleges and
> universities are covered by
> their liability insurance. The situation is not so clear cut for
> volunteer advisers to
> institutional high altitude ballooning programs. I have asked for and
> received letters from
> institutions stating that their liability insurance would cover my
> volunteer participation.

>
> TNX es 73 de Ralph Wallio, WORPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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2997. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 22:50:00 UTC
From: David
Topic: 2983 Message: 2997

Hi Mike nice of you to drop in. FB on the LiSO2 cells.That will certainly be our choice, thanks.
Great on the parachute also, yes we will probably go for the 2 meter size, and is there a prefered material which is very light to stay within our payload weight?

thanks again Mike es cheers

David ve3bbn

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Wednesday, March 21, 2007 2:58 AM
Subject: Re: [GPSL] Balloon Launch

Hi David,

GL on your first flight! Sounds as though you have the right set
of beacons, but what freqs will they be on?

LiSO2 primary cells have proven to operate quite well in balloon
payloads. They have excellent energy density and low-temperature
tolerance compared to other chemistries. You can buy them new as
CR123 Li camera batteries, or more bang for the buck as surplus
BA-5513/U batteries - the individual cells operate at about 2.7
at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
bad for 85 gm per cell and US$2 per cell. A camera store in NYC
sells them, but can't recall the name - try Googling BA-5513/U.

I assume that you have a parachute for your descent? A 1.8m diameter
conical should be about right for that payload. If you want to get
the payloads back, recommend deploying a recovery team around the
landing site as predicted by WinBallTrack, downloadable from
www.eoss.org.

73 de Mike W5VSI
Prez EOSS

David Wilson wrote:
> Greetings all, It was great to hear that the KC8UCH flight may be
> found soon. I belong to a Canadian ARC known as NPARC (Niagara
> Peninsula Amateur Radio Club)and we are in the process of putting
> together our first package. The balloon will have 115 cuft capacity
> and a lift-off weight of 5 ponds.The payload telemetry will consist of
> battery level and
> outside temperature, which will be sent to the ground on a 2meter link.
> There will be a second FM transmitter sending the pulses for

> detection when the payload is jettisoned. It will also operate in the
> 2 meter band.
> There will also be a digital camera set to take a video of the take-off
> and run until the memory is full or the unit freezes up (whichever
> comes first).
> The payload will be dropped from the balloon on a signal from ground
> and hopefully recovered intact.
> I am interested in the battery supply others are using. Naturally we
> need as much mah as we can get with the least weight.
> what type have others used? Any help and input would be greatly
> appreciated.
>
> cheers David ve3bbn
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> Yahoo! Groups Links
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Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

2998. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-21 22:50:31 UTC
From: David
Topic: 2988 Message: 2998

Thanks Harry

----- Original Message -----
From: "Harry M" <hhm_74115@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, March 21, 2007 11:28 AM
Subject: Re: [GPSL] liability insurance

> David, I do not have insurance.
>
> Harry KC5TRB
>
> -----
>
>
>
>> Greetings all, I forgot to ask the group about liability insurance. what
>> coverage dooes your group have ? and what
>> approx. is the cost?
>
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> Yahoo! Groups Links
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2999. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 01:15:51 UTC
From: Zack Clobes
Topic: 2988 Message: 2999

Project: Traveler has always had $1M liability insurance for our
flights. We found a local agent (sorry, he's only licensed in Kansas -
we've checked) that would write a general liability policy for the radio
club, which we flew under. I believe it cost us about $250 a year for
the coverage.

Zack Clobes, W0ZC
Project: Traveler

Ralph Wallio, W0RPK wrote:
> David --
>
> To my knowledge no group has acquired liability insurance for their flights. A few groups
have
> investigated the possibility but all have found premiums to be too high to accept.
(Groups: If
> there are exceptions to this please post your insurance information.)
>
> Insurance available to ARRL members does not cover high altitude ballooning. Several
years ago AMA,
> the American Modelers Association, did not want to consider the possibility of covering
amateur high
> altitude ballooning.
>
> I have been told that homeowners insurance would cover claims against individual policy
holders (not
> groups) resulting from high altitude ballooning. I asked for and received letters from my
agent and
> insurance company stating same. However, I have not heard of others having a similar
experience let
> alone actually having a claim paid.
>
> Employees, even part time employees, of school districts, colleges and universities are
covered by
> their liability insurance. The situation is not so clear cut for volunteer advisers to
> institutional high altitude ballooning programs. I have asked for and received letters
from
> institutions stating that their liability insurance would cover my volunteer
participation.
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3000. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 00:36:24 UTC
From: Mike Manes
Topic: 2988 Message: 3000

Hi David,

EOSS doesn't carry liability insurance for its
balloon operations. We've sought it out several times
in the past, but only Lloyd's of London returned a quote of
absurd annual premiums. So we are self-insured. We limit
our liability, however, several ways:

1. We are Colorado and Federal non-profit corporation, thus
granting us significant protection afforded non-profits under
Colorado tort law.

2. We take care to avoid posing risks to others and their
property. Most importantly, we keep our local FAA controllers
advised of our flight operations, posting HiBal notices a
week in advance, maintaining cell phone contact with them
during the flight and providing them near-real-time position
and altitude reports via our APRS beacons being I-gated to
findu.com and appearing on the control floor in FAA vernacular:
VOR radial and range. In addition, we won't launch if the
predicted trajectory will land us in a populated area or take
us through heavily-trafficked air corridors.

3. When we perform flight operations on behalf of colleges
and Space Grant, we do get some liability protection under
their policies.

Now, how much risk are we biting off? After 115 flights in
16 years, we've never harmed anyone, although we've taken out
some rural electrical power when landing across power lines.
And the only 3rd party accident related to any US ARHAB ops
that I'm aware of was a cracked windshield when a payload
string landed across an interstate highway; the driver called
the cell phone number on the payload placard, was compensated
on the spot and the payload string recovered with no further
ado. One hit in perhaps 1000 flights ain't bad odds, but
the results could be a lot worse.

Hope that helps take the white out of your knuckles.

73 de Mike W5VSI
Prez EOSS

David wrote:
> Greetings all, I forgot to ask the group about liability insurance. what
> coverage dooes your group have ? and what approx. is the cost?
>

> cheers David ve3bbn
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3001. Re: [GPSL] Parachutes, etc

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 02:06:57 UTC
From: Mike Manes
Topic: 2983 Message: 3001

Hi David,

Our 'chutes are made from ripstop nylon - not sure of the denier. A
2m diameter 'chute should weigh no more than about 500 grams, tho.
And be sure that there's a generous vent at the apex: 10-15 cm diameter
should do it OK. This helps prevent instability at high altitude.
Use dayglow orange material which enhances visibility during descent
and on the ground. Some of our 'chutes have alternating orange and
white gores.

The apex MUST have some means of attaching the balloon lift line as
well, and that should be plenty strong.

And be sure to fit a spreader ring about halfway up the shroud lines
to ensure proper 'chute opening. Ours use 7 mm diameter wicker, but
any lightweight flexible material will do. A hula hoop is suitable
for larger 'chutes - or maybe you could use a cut-down hoop?

You can probably find a suitable ready-made parachute from model
rocket suppliers. Spherachute (sic?) here in Colorado has made
several for EOSS. You may have to add or enlarge the vent and
add a spreader ring, tho.

73 de Mike W5VSI

David wrote:
> Hi Mike nice of you to drop in. FB on the LiSO2 cells.That will
> certainly be our choice, thanks.
> Great on the parachute also, yes we will probably go for the 2 meter
> size, and is there a prefered material which is very light to stay
> within our payload weight?
>
> thanks again Mike es cheers
>
> David ve3bbn
>
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:manes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wednesday, March 21, 2007 2:58 AM
> *Subject:* Re: [GPSL] Balloon Launch
>
> Hi David,
>
> GL on your first flight! Sounds as though you have the right set

> of beacons, but what freqs will they be on?
>
> LiSO2 primary cells have proven to operate quite well in balloon
> payloads. They have excellent energy density and low-temperature
> tolerance compared to other chemistries. You can buy them new as
> CR123 Li camera batteries, or more bang for the buck as surplus
> BA-5513/U batteries - the individual cells operate at about 2.7
> at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
> bad for 85 gm per cell and US$2 per cell. A camera store in NYC
> sells them, but can't recall the name - try Googling BA-5513/U.
>
> I assume that you have a parachute for your descent? A 1.8m diameter
> conical should be about right for that payload. If you want to get
> the payloads back, recommend deploying a recovery team around the
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> > and run until the memory is full or the unit freezes up (whichever
> > comes first).
> > The payload will be dropped from the balloon on a signal from ground
> > and hopefully recovered intact.
> > I am interested in the battery supply others are using. Naturally we
> > need as much mah as we can get with the least weight.
> > what type have others used? Any help and input would be greatly
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> > cheers David ve3bbn
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> > Yahoo! Groups Links
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> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>

--
Mike Manes manes@... Tel: 303-979-4899
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3002. Lithium battery pack sources

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 01:33:21 UTC
From: wb8elk@aol.com
Topic: 3002 Message: 3002

David,

The website for the surplus military BA-5590/U lithium D-cell packs is:

http://www.sg-photo.com/ (http://www.sg-photo.com/)

They basically bought up a bunch of surplus BA-5590/U military packs and make up long duration packs for professional photographers...however, they used to sell the entire military packs quite reasonably to the ham balloon groups.

However...I'm not sure if they have any left, I'd call them to find out....they used to sell for between $15 to $30 a pack. There are 10 lithium D-cells inside....2.7 volts under load and rated at 7.5 Ah...but they are dated from the late 80s, so their capacity is probably around 5.5 to 6.0 Ah by now....so I'd check each cells voltage and maybe test one under load to see if they are still good. These packs are easy to disassemble as they are cardboard covers...just be careful not to short out any of the leads as these will produce e nough amperage to melt through your cutters (hmmm...voice of experience <smile>).

I have one of these packs still inside one of my first payloads that I flew in 1988 and it still powers up the payload just fine.

I typically use between 3 to 5 of these cells in series depending on the voltage you want. By the way, they are SAFT model LX3457 LiSo2. You can also find other BA-5590/U surplus packs on the internet...but be forwarned that some of these are encased in a plastic housing that takes a Dremel tool or hacksaw to open and is tricky so as not to saw into the batteries just below the surface (remember what I mentioned earlier about the cutters)...I prefer not to fool with these unless you want to fly the entire 2.2 pound battery pack...which will give you a bit less than 15 volts at 15 Ah. You can buy the individual D-cells new by the way...but they are typically $12 or more per cell but buying in small quantities is not easy to do as the distributors usually only want to deal with large volumes.

By the way.....years ago, Mike Batley at Avex Portable Battery used to make me custom SAFT battery packs using new SAFT batteries....he did all the hard work of professionally welding the battery tabs together and then heatshrinking it into a very nice and professional pack with wire leads coming out....and very economical...not much more than the new price for the cells actually...here's the link to his company...now called Avex Electronics...you might see what they have to offer now:...tell him it's for ham radio balloons and that I sent you and see what you can work out.

http://www.avexelectronics.com/batteries.htm
(http://www.avexelectronics.com/batteries.htm)

I also can't forget to mention that lately some groups have successfully used the new Lithium Ion packs designed for electric R/C planes....Thunderpower is one such manufacturer....these have great capacity....very lightweight....low temperature capable...AND....they are RECHARGEABLE...for at least 500 cycles or more. So, as long as you have a good recovery plan in place...these can really pay off in the long run and they are already assembled....just be sure to use the recommended lithium battery charger.

If you can't find any of these wonders....then the lithium Eveready L91 at Walmart is a good alternative and are shaped just like a AA battery and the same terminal voltage as AA's as well.

And yes, as Harry points out...you can indeed use standard batteries as long as you insulate things well...but they tend to be heavier than the lithiums for the same capacity and if it gets down much below zero inside your payload, then you've got problems....the AA lithiums will go below -20C and the military D-cells work even at -40C below....keep in mind it's typically -60C outside in the jet stream region even in the height of the Summer and goes up to a toasty -40 C at 100,000 feet. It really depends on the average current drain on your payload (and peak drain) and the amount of time you want everything to function....I'd recommend having at least a 6 hour lifetime goal so you have time to track it down after landing as the typical flight lasts about 2 hours.....If you have a backup beacon....then you can get by with a lower capacity for the primary payload.

I typically use add a 2m FM CW or voice beacon to my flight train that puts out about 50 milliwatts and run this with a lithium 9-volt battery surrounded by 3 layers of clear bubblewrap....the whole payload is 3 ounces including battery weight but will run for 28 hours. The clear bubblewrap combined with solar heating keeps the battery warm enough during flight. Harry KC5TRB makes a very nice beacon kit he can tell you about for this purpose....and there is one you can get from Doppler DF systems called the Microhunt (CW) or the Squawkbox (voice message).....in any case...having a backup beacon is great insurance in case you need more time to track on the ground and once the main payload dies out. I've also made beacons with 28.322 MHz cheap clock oscillators keyed on and off with a microcontroller to generate CW (they typically put out about 50 milliwatts) and can be heard for several miles when on the ground....I can also send you a circuit to AM modulate one of these as well which I plan to use for my next flight putting out CW and RTTY telemetry. If you don't filter the output of these, you'll get a weak output on the 5th harmonic...in this case 141.61 MHz which you can track with a 2m HT and a beam when you get within a quarter mile or so....you won't even need an attenuator and can usually walk right up to the payload.

Hope all this helps,

- Bill WB8ELK

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3003. Parachutes

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 01:47:54 UTC
From: wb8elk@aol.com
Topic: 3003 Message: 3003

The company Mike referred to makes very nice and reasonably priced parachutes....they do them for model rocketry and they are very lightweight....just tell them you need a reinforced attachment loop at the top of the parachute where the vent hole is located so you can tie your balloon to the top of the chute. They will customize the color and even do multiple alternating colors...they've worked well for me and have been of very high quality and performance.

http://spherachutes.com/ (http://spherachutes.com/)
(http://www.spherachutes.com)

Of course, you can make your own as well using ripstop nylon.

- Bill WB8ELK

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3004. Liabilty and risks

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 02:07:14 UTC
From: wb8elk@aol.com
Topic: 3004 Message: 3004

I see that I didn't post my last email to David about liability to GPSL.

There have been approximately 1000 amateur radio ballooning flights since 1987 and in that amount of time only one incident with a cracked windshield caused by a payload hitting a car on a highway in Kansas which was about one in a million odds...(the car owner was given the money on the spot to buy a new windshield and no insurance companies got involved)....also one landing at O'Hare (they knew that it was incoming so no problems), even O'Hare security helped the chase crew to find it and recover it.

As for me after being involved with 200 flights or so....a landing in Boston Harbor (landed next to a speedboat who recovered it), a near miss on my chase plane (who was intentionally trying to get as close as he could...perhaps a bit too close - you can see the airplane wing on the ATV video as it whooshed by)....and our local university's Balloonsat last year landed on top of an apartment building's roof in a small town. Besides a curious woman on the balcony who told us she heard a big whomp on her ceiling, there were no problems and just a few fascinated folks staring at it. That particular small town (Rainsville, AL) seems to be a balloon magnet (it's about 40 miles east of our launchsite)...we've landed 2 right in the town limits and about 5 others within 3 miles of there.

Plus, the National Weather Service has launched many many thousands of radiosondes over the past 50 years....Two a day from 72 launchsites in the US alone....and they have never had a problem or incident with aircraft strikes or ground hits as far as I can tell.

So...the odds are pretty good that you will not have a problem as long as stack the odds in your favor with a good prediction that avoids cities and heavily populated areas.

- Bill WB8ELK

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3005. EOSRED Group out east in Maine we'll be there in July

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 02:36:21 UTC
From: w1lwt
Topic: 3005 Message: 3005

Yes we are in the process of getting ready to be there for the launch .

LEE-W1LWT
Project Engineer/Designer

EOS-2 and EOSRED yahoo groups and check out W1lwt yahoo groups also.

3006. Plans for 20th anniversary ARHAB celebration in Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 02:48:13 UTC
From: wb8elk@aol.com
Topic: 3006 Message: 3006

I've starting to work out the details for the 20th anniversary of my first flight....I am currently planning on holding it the morning of Saturday, August 11th, 2007 from a farm near Findlay, Ohio...probably the same location as my first flight at WA8HDX's QTH.

I would like to invite any balloon group to come fly at this event ala a GPSL-style multiple launch and recovery.

I'm just in the planning stages of the event now and would like a quick show of hands of those who are thinking of attending or flying that day. I can do a group purchase of helium to make it as reasonable as possible.

That part of Ohio is ideal for flight and recovery...mostly perfectly flat farmground with few trees.

I'll announce more details as we get nearer to the date on my website:

http://www.wb8elk.com (http://www.wb8elk.com)

73s de Bill WB8ELK

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3007. Re: [GPSL] Plans for 20th anniversary ARHAB celebration in Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 03:21:41 UTC
From: David Hoffman
Topic: 3006 Message: 3007

I'm coming to this one Bill. I'm not sure about UTARC, but will check
with them and see.

David Hoffman - KE4FGW

> I've starting to work out the details for the 20th anniversary of my first
> flight....I am currently planning on holding it the morning of Saturday,
> August
> 11th, 2007 from a farm near Findlay, Ohio...probably the same location as
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> first flight at WA8HDX's QTH.
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> I would like to invite any balloon group to come fly at this event ala a
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> _http://www.wb8elk.com_ (http://www.wb8elk.com)
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> 73s de Bill WB8ELK
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3008. Re: [GPSL] Liabilty and risks

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 10:23:22 UTC
From: Ralph Wallio, W0RPK
Topic: 3004 Message: 3008

Regarding liability claims for NWS upper air observing (aka RAOB) flights, I received the attached
e-mail response last summer. Note in the last two paragraphs that the NWS has settled liability
claims for damages caused by landing payloads.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "UpperAir" <Upperair@...>
To: "Ralph Wallio" <RalphWallio@...>
Sent: Wednesday, August 30, 2006 1:02 PM
Subject: Re: FAA notification for RAOB flights(?)

Dear Mr. Wallio,

Thank you for your note requesting information on National Weather Service (NWS) Radiosonde launching policy

I suggest you contact someone in the FAA to get more information about FAA policy on balloon payloads. Steven Albersheim, FAA, may be able to help you. His email address: steven.albersheim@... .

The 92 National Weather Service upper air stations do not file NOTAMS because we meet FAR 101 rules as you pointed out. However, NWS offices within 5 miles of a controlled airport must contact the FAA Tower and request permission to release the balloons carrying a radiosonde.

I strongly suggest that you have a plan in place on handling mishaps that may occur when your payload hits the ground. This is not covered by FAA rules. Parachutes, balloons, and other flight equipment don't always perform as expected and NWS has been held liable a number of times for damages and injuries incurred from descending radiosondes. Damage claims have been submitted for broken car windshields, injured and killed and farm livestock, and minor injuries to people, just to name a few. NWS attorneys handle these claims.

Also, I have gotten a number of reports over the years of police/fire departments needlessly responding to a fallen NWS radiosonde. Many times the area is evacuated and police/fire department resources are wasted. Sadly, the Oklahoma City Bombing and September 11 have made this kind of response to a fallen radiosonde a more common occurrence. So, I recommend that you put a BIG, easy to read label on your payload noting that it is harmless and include a contact cell telephone

number. It may help, especially if your team is delayed when retrieving the payload.

Sincerely,

Bill Blackmore
Upper air Observations Program
National Weather Service HQ
NOAA/U.S. Department of Commerce

3009. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 10:41:43 UTC
From: Ralph Wallio, W0RPK
Topic: 2988 Message: 3009

Zack --

Agents only sell insurance. Which insurance company issued the policy? Is it just a general liability policy or does it specifically cover damage claims that result from high altitude ballooning flights?

TNX es 73 de Ralph Wallio, WORPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Zack Clobes" <zclobes@...>
To: <GPSL@yahoogroups.com>
Sent: Wednesday, March 21, 2007 8:15 PM
Subject: Re: [GPSL] liability insurance

Project: Traveler has always had $1M liability insurance for our flights. We found a local agent (sorry, he's only licensed in Kansas - we've checked) that would write a general liability policy for the radio club, which we flew under. I believe it cost us about $250 a year for the coverage.

Zack Clobes, W0ZC
Project: Traveler

3010. Re: [GPSL] Lithium battery pack sources

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 11:37:50 UTC
From: Ralph Wallio, W0RPK
Topic: 3002 Message: 3010

Surplus SAFT military LiSO2 battery packs are available from:

Fair Radio Sales
http://www.fairradio.com/
Search on BA-5598

See http://store.batteryspecialists.com/ba5598u.html for more information. Note that current price
for new packs is $114.

I have used several packs from Fair Radio Sales (for which I paid ~$4/ea in quantity) with no
problems. They can be used as-is or plastic cases can be cut open to remove five 8AH cells.

Paul Verhage, KD4STH, discusses these and other battery choices in Chapter-4 of his ARHAB NearSpace
e-book available via http://www.parallax.com/dl/docs/cusapps/NearSpace4.pdf.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3011. Re: [GPSL] Plans for 20th anniversary ARHAB celebration in Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 13:41:53 UTC
From: PAUL VERHAGE
Topic: 3006 Message: 3011

I plan to be there.

Paul

>>> <wb8elk@...> 3/21/2007 8:48:13 pm >>>
I've starting to work out the details for the 20th anniversary of my first flight....I am currently planning on holding it the morning of Saturday, August 11th, 2007 from a farm near Findlay, Ohio...probably the same location as my first flight at WA8HDX's QTH.

I would like to invite any balloon group to come fly at this event ala a GPSL-style multiple launch and recovery.

I'm just in the planning stages of the event now and would like a quick show of hands of those who are thinking of attending or flying that day. I can do a group purchase of helium to make it as reasonable as possible.

That part of Ohio is ideal for flight and recovery...mostly perfectly flat farmground with few trees.

I'll announce more details as we get nearer to the date on my website:

http://www.wb8elk.com (http://www.wb8elk.com)

73s de Bill WB8ELK

********** AOL now offers free email to everyone.
Find out more about what's free from AOL at http://www.aol.com.

3012. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 13:35:04 UTC
From: PAUL VERHAGE
Topic: 2983 Message: 3012

The camera store is S&G Electronics. Since the batteries are surplus, they may not be in stock now.

Paul

>>> Mike Manes <manes@...> 3/21/2007 12:58:42 am >>>
Hi David,

GL on your first flight! Sounds as though you have the right set
of beacons, but what freqs will they be on?

LiSO2 primary cells have proven to operate quite well in balloon
payloads. They have excellent energy density and low-temperature
tolerance compared to other chemistries. You can buy them new as
CR123 Li camera batteries, or more bang for the buck as surplus
BA-5513/U batteries - the individual cells operate at about 2.7
at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
bad for 85 gm per cell and US$2 per cell. A camera store in NYC
sells them, but can't recall the name - try Googling BA-5513/U.

I assume that you have a parachute for your descent? A 1.8m diameter
conical should be about right for that payload. If you want to get
the payloads back, recommend deploying a recovery team around the
landing site as predicted by WinBallTrack, downloadable from
www.eoss.org.

73 de Mike W5VSI
Prez EOSS

David Wilson wrote:
> Greetings all, It was great to hear that the KC8UCH flight may be
> found soon. I belong to a Canadian ARC known as NPARC (Niagara
> Peninsula Amateur Radio Club)and we are in the process of putting
> together our first package. The balloon will have 115 cuft capacity
> and a lift-off weight of 5 ponds.The payload telemetry will consist of
> battery level and
> outside temperature, which will be sent to the ground on a 2meter link.
> There will be a second FM transmitter sending the pulses for
> detection when the payload is jettisoned. It will also operate in the
> 2 meter band.
> There will also be a digital camera set to take a video of the take-off
> and run until the memory is full or the unit freezes up (whichever
> comes first).
> The payload will be dropped from the balloon on a signal from ground
> and hopefully recovered intact.
> I am interested in the battery supply others are using. Naturally we
> need as much mah as we can get with the least weight.

> what type have others used? Any help and input would be greatly
> appreciated.
>
> cheers David ve3bbn
>
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> Yahoo! Groups Links
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--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

3013. Re: [GPSL] Parachutes, etc

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 14:29:13 UTC
From: David
Topic: 2983 Message: 3013

Hi Mike, thank you for the info on the parachute. it was very informative. I knew nothing about the vent hole at the apex adding stability. Yes the hoop is certainly a virtue that would ensure it deplores immediately.
Thanks again, and it is info like this that will make the first launch a winner.

cheers david ve3bbn

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Wednesday, March 21, 2007 10:06 PM
Subject: Re: [GPSL] Parachutes, etc

Hi David,

Our 'chutes are made from ripstop nylon - not sure of the denier. A
2m diameter 'chute should weigh no more than about 500 grams, tho.
And be sure that there's a generous vent at the apex: 10-15 cm diameter
should do it OK. This helps prevent instability at high altitude.
Use dayglow orange material which enhances visibility during descent
and on the ground. Some of our 'chutes have alternating orange and
white gores.

The apex MUST have some means of attaching the balloon lift line as
well, and that should be plenty strong.

And be sure to fit a spreader ring about halfway up the shroud lines
to ensure proper 'chute opening. Ours use 7 mm diameter wicker, but
any lightweight flexible material will do. A hula hoop is suitable
for larger 'chutes - or maybe you could use a cut-down hoop?

You can probably find a suitable ready-made parachute from model
rocket suppliers. Spherachute (sic?) here in Colorado has made
several for EOSS. You may have to add or enlarge the vent and
add a spreader ring, tho.

73 de Mike W5VSI

David wrote:
> Hi Mike nice of you to drop in. FB on the LiSO2 cells.That will
> certainly be our choice, thanks.
> Great on the parachute also, yes we will probably go for the 2 meter
> size, and is there a prefered material which is very light to stay
> within our payload weight?
>
> thanks again Mike es cheers
>

> David ve3bbn
>
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:manes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wednesday, March 21, 2007 2:58 AM
> *Subject:* Re: [GPSL] Balloon Launch
>
> Hi David,
>
> GL on your first flight! Sounds as though you have the right set
> of beacons, but what freqs will they be on?
>
> LiSO2 primary cells have proven to operate quite well in balloon
> payloads. They have excellent energy density and low-temperature
> tolerance compared to other chemistries. You can buy them new as
> CR123 Li camera batteries, or more bang for the buck as surplus
> BA-5513/U batteries - the individual cells operate at about 2.7
> at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
> bad for 85 gm per cell and US$2 per cell. A camera store in NYC
> sells them, but can't recall the name - try Googling BA-5513/U.
>
> I assume that you have a parachute for your descent? A 1.8m diameter
> conical should be about right for that payload. If you want to get
> the payloads back, recommend deploying a recovery team around the
> landing site as predicted by WinBallTrack, downloadable from
> www.eoss.org.
>
> 73 de Mike W5VSI
> Prez EOSS
>
> David Wilson wrote:
> > Greetings all, It was great to hear that the KC8UCH flight may be
> > found soon. I belong to a Canadian ARC known as NPARC (Niagara
> > Peninsula Amateur Radio Club)and we are in the process of putting
> > together our first package. The balloon will have 115 cuft capacity
> > and a lift-off weight of 5 ponds.The payload telemetry will
> consist of
> > battery level and
> > outside temperature, which will be sent to the ground on a 2meter
> link.
> > There will be a second FM transmitter sending the pulses for
> > detection when the payload is jettisoned. It will also operate in the
> > 2 meter band.
> > There will also be a digital camera set to take a video of the
> take-off
> > and run until the memory is full or the unit freezes up (whichever
> > comes first).
> > The payload will be dropped from the balloon on a signal from ground

> > and hopefully recovered intact.
> > I am interested in the battery supply others are using. Naturally we
> > need as much mah as we can get with the least weight.
> > what type have others used? Any help and input would be greatly
> > appreciated.
> >
> > cheers David ve3bbn
> >
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> > Yahoo! Groups Links
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> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>

--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3014. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 05:04:25 UTC
From: Mike Manes
Topic: 2988 Message: 3014

Hi David,

If it's any consolation, the US Nat'l Wx Service launches
120 radiosondes (RAOB) from some 60 sites, usually near
airports, every day. And so far as I know, there's never been
a midair collision with a RAOB since I got into this game
16 years ago. Way back when balloon payloads carried long,
trailing wire antennae, there may have been a "barrage balloon"
effect with one or more aircraft, which explains the FAR-101
archaic requirement to flag such wires.

Your best guarantee to avoid a midair is to let the air
traffic folks know where you're at. After all, they are
really the only ones who can prevent a midair - you're helpless
even if you saw an impending collision, but the controllers
can steer aircraft around you, typically by 5 miles.

73 de Mike W5VSI

David wrote:
> Hi Ralph, nice to hear from you. I am starting to be concerned about the
> happening of this flight. People nowadays are so scared to do just about
> anything that can come back to bite them. I guess in a sense all the
> insurance in the world wouldn't cover the downing of a 767 or the likes of
> it. i know there hasn't been an issue like this happening but they would be
> afraid they would make the Guiness book of records by bringing down an
> aircraft with a balloon.
>
> Cheers David ve3bbn
> ----- Original Message -----
> From: "Ralph Wallio, W0RPK" <W0RPK@...>
> To: "GPSL" <GPSL@yahoogroups.com>
> Sent: Wednesday, March 21, 2007 11:33 AM
> Subject: Re: [GPSL] liability insurance
>
>
>> David --
>>
>> To my knowledge no group has acquired liability insurance for their
>> flights. A few groups have
>> investigated the possibility but all have found premiums to be too high to
>> accept. (Groups: If
>> there are exceptions to this please post your insurance information.)
>>
>> Insurance available to ARRL members does not cover high altitude
>> ballooning. Several years ago AMA,

>> the American Modelers Association, did not want to consider the
>> possibility of covering amateur high
>> altitude ballooning.
>>
>> I have been told that homeowners insurance would cover claims against
>> individual policy holders (not
>> groups) resulting from high altitude ballooning. I asked for and received
>> letters from my agent and
>> insurance company stating same. However, I have not heard of others
>> having a similar experience let
>> alone actually having a claim paid.
>>
>> Employees, even part time employees, of school districts, colleges and
>> universities are covered by
>> their liability insurance. The situation is not so clear cut for
>> volunteer advisers to
>> institutional high altitude ballooning programs. I have asked for and
>> received letters from
>> institutions stating that their liability insurance would cover my
>> volunteer participation.
>>
>> TNX es 73 de Ralph Wallio, WORPK
>> W0RPK@...
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>> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3015. Re: [GPSL] Parachutes, etc

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 16:06:55 UTC
From: PAUL VERHAGE
Topic: 2983 Message: 3015

Just a comment.

> Yes the hoop is certainly a virtue that would ensure it deplores immediately.

Yep, I hate it when my parachute doesn't deplore.
;)

Paul

3016. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:11:50 UTC
From: David
Topic: 2988 Message: 3016

Thanks mike really great advise.
All of this info is going into a paper to present to the club to excite some interest. Normally it takes a couple of sticks of TNT, but these e-mails sure have spawned a real interest in me.

cheers David ve3bbn

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, March 22, 2007 1:04 AM
Subject: Re: [GPSL] liability insurance

> Hi David,
>
> If it's any consolation, the US Nat'l Wx Service launches
> 120 radiosondes (RAOB) from some 60 sites, usually near
> airports, every day. And so far as I know, there's never been
> a midair collision with a RAOB since I got into this game
> 16 years ago. Way back when balloon payloads carried long,
> trailing wire antennae, there may have been a "barrage balloon"
> effect with one or more aircraft, which explains the FAR-101
> archaic requirement to flag such wires.
>
> Your best guarantee to avoid a midair is to let the air
> traffic folks know where you're at. After all, they are
> really the only ones who can prevent a midair - you're helpless
> even if you saw an impending collision, but the controllers
> can steer aircraft around you, typically by 5 miles.
>
> 73 de Mike W5VSI
>
> David wrote:
>> Hi Ralph, nice to hear from you. I am starting to be concerned about the
>> happening of this flight. People nowadays are so scared to do just about
>> anything that can come back to bite them. I guess in a sense all the
>> insurance in the world wouldn't cover the downing of a 767 or the likes
>> of
>> it. i know there hasn't been an issue like this happening but they would
>> be
>> afraid they would make the Guiness book of records by bringing down an
>> aircraft with a balloon.
>>
>> Cheers David ve3bbn
>> ----- Original Message -----
>> From: "Ralph Wallio, W0RPK" <W0RPK@...>

>> To: "GPSL" <GPSL@yahoogroups.com>
>> Sent: Wednesday, March 21, 2007 11:33 AM
>> Subject: Re: [GPSL] liability insurance
>>
>>
>>> David --
>>>
>>> To my knowledge no group has acquired liability insurance for their
>>> flights. A few groups have
>>> investigated the possibility but all have found premiums to be too high
>>> to
>>> accept. (Groups: If
>>> there are exceptions to this please post your insurance information.)
>>>
>>> Insurance available to ARRL members does not cover high altitude
>>> ballooning. Several years ago AMA,
>>> the American Modelers Association, did not want to consider the
>>> possibility of covering amateur high
>>> altitude ballooning.
>>>
>>> I have been told that homeowners insurance would cover claims against
>>> individual policy holders (not
>>> groups) resulting from high altitude ballooning. I asked for and
>>> received
>>> letters from my agent and
>>> insurance company stating same. However, I have not heard of others
>>> having a similar experience let
>>> alone actually having a claim paid.
>>>
>>> Employees, even part time employees, of school districts, colleges and
>>> universities are covered by
>>> their liability insurance. The situation is not so clear cut for
>>> volunteer advisers to
>>> institutional high altitude ballooning programs. I have asked for and
>>> received letters from
>>> institutions stating that their liability insurance would cover my
>>> volunteer participation.
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> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
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> Yahoo! Groups Links
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3017. Re: [GPSL] Plans for 20th anniversary ARHAB celebration in Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:13:24 UTC
From: David
Topic: 3006 Message: 3017

Hi Bill, I would surely be interested in coming to the launch. Who knows we may even launch our first from there ,hi hi .

cheers David ve3bbn
----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Cc: balloonatics@yahoogroups.com ; balloon_sked@yahoogroups.com
Sent: Wednesday, March 21, 2007 10:48 PM
Subject: [GPSL] Plans for 20th anniversary ARHAB celebration in Findlay Ohio

I've starting to work out the details for the 20th anniversary of my first flight....I am currently planning on holding it the morning of Saturday, August 11th, 2007 from a farm near Findlay, Ohio...probably the same location as my first flight at WA8HDX's QTH.

I would like to invite any balloon group to come fly at this event ala a GPSL-style multiple launch and recovery.

I'm just in the planning stages of the event now and would like a quick show of hands of those who are thinking of attending or flying that day. I can do a group purchase of helium to make it as reasonable as possible.

That part of Ohio is ideal for flight and recovery...mostly perfectly flat farmground with few trees.

I'll announce more details as we get nearer to the date on my website:

http://www.wb8elk.com

73s de Bill WB8ELK

AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

3018. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:13:33 UTC
From: Zack Clobes
Topic: 2988 Message: 3018

I've forgotten, and the radio club has all of the paperwork. I can try
to find out.

The coverage is a general liability policy for the club and its
associated activities. As I recall (from ?six? years ago), the policy
included any liability that the club's property might induce on someone
or something. That supposedly includes an antenna tower, or a balloon
payload.

Zack

Ralph Wallio, W0RPK wrote:
> Zack --
>
> Agents only sell insurance. Which insurance company issued the policy? Is it just a
general
> liability policy or does it specifically cover damage claims that result from high
altitude
> ballooning flights?
>
> TNX es 73 de Ralph Wallio, WORPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
> ----- Original Message -----
> From: "Zack Clobes" <zclobes@...>
> To: <GPSL@yahoogroups.com>
> Sent: Wednesday, March 21, 2007 8:15 PM
> Subject: Re: [GPSL] liability insurance
>
>
> Project: Traveler has always had $1M liability insurance for our
> flights. We found a local agent (sorry, he's only licensed in Kansas -
> we've checked) that would write a general liability policy for the radio
> club, which we flew under. I believe it cost us about $250 a year for
> the coverage.
>
> Zack Clobes, W0ZC
> Project: Traveler
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> Yahoo! Groups Links
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3019. Re: [GPSL] liability insurance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:18:04 UTC
From: David
Topic: 2988 Message: 3019

thanks for the info Zack, I will have our VP check out our insurance plan

cheers David ve3bbn

----- Original Message -----
From: "Zack Clobes" <zclobes@...>
To: <GPSL@yahoogroups.com>
Sent: Thursday, March 22, 2007 7:13 PM
Subject: Re: [GPSL] liability insurance

> I've forgotten, and the radio club has all of the paperwork. I can try
> to find out.
>
> The coverage is a general liability policy for the club and its
> associated activities. As I recall (from ?six? years ago), the policy
> included any liability that the club's property might induce on someone
> or something. That supposedly includes an antenna tower, or a balloon
> payload.
>
> Zack
>
>
> Ralph Wallio, W0RPK wrote:
>> Zack --
>>
>> Agents only sell insurance. Which insurance company issued the policy?
>> Is it just a general
>> liability policy or does it specifically cover damage claims that result
>> from high altitude
>> ballooning flights?
>>
>> TNX es 73 de Ralph Wallio, WORPK
>> W0RPK@...
>> http://showcase.netins.net/web/wallio/
>> Hubbert's Peak - The Mother of all Perfect Storms
>>
>>
>> ----- Original Message -----
>> From: "Zack Clobes" <zclobes@...>
>> To: <GPSL@yahoogroups.com>
>> Sent: Wednesday, March 21, 2007 8:15 PM
>> Subject: Re: [GPSL] liability insurance
>>
>>
>> Project: Traveler has always had $1M liability insurance for our
>> flights. We found a local agent (sorry, he's only licensed in Kansas -

>> we've checked) that would write a general liability policy for the radio
>> club, which we flew under. I believe it cost us about $250 a year for
>> the coverage.
>>
>> Zack Clobes, W0ZC
>> Project: Traveler
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3020. Re: 40m astronomy/space/ARHAB net

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:35:07 UTC
From: David Wilson
Topic: 2972 Message: 3020

--- In GPSL@yahoogroups.com, Mike Manes <manes@...> wrote:
>Hi Brian/Mike, great to hear about your net on 40m. Unfortunatly I
won't be able to hear California during the daylight hours here in
Ontario.
It would be great if an NCS from the central states took a crack at it
as it may then be possible. Good stuff, keep up the good works.

cheers David ve3bbn
>
>
> -------- Original Message --------
> Subject: Astronomy/Space Discussion
> Date: Sat, 10 Mar 2007 06:21:28 -0800
> From: Brian Webb <kd6nrp@...>
> To: Brian Webb <kd6nrp@...>
>
> Good Morning:
>
> For those of you who are not only amateur astronomers, but also amateur
> radio operators, you might be interested in the following on-air
> astronomy/space discussion group:
>
> 1. Date: Sunday, March 11
>
> 2. Time: 12:00 PDT/19:00 UTC (PDT begins tomorrow morning)
>
> 3. Frequency (KHz): 7,247.0 (primary)
>
> 7,230.0 (backup)
>
> 7,212.0 (backup)
>
> 4. Mode: LSB
>
> 5. Topics: Astronomy, astronmical observing, astronomical events,
telescopes
> and accessories, solar-terrestrial interaction, civlian
(non-military) space
> activities, high altitude amateur balloons, high altitude amateur
rockets,
> radio astronomy, amateur satellites, etc.
>
> I hope to hear you on the air tomorrow.
>
> 73

>
> Brian Webb, KD6NRP
> Ventura County, CA
>
>
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
Einstein
>

3021. Re: Parachutes, etc

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:38:38 UTC
From: David Wilson
Topic: 2983 Message: 3021

--- In GPSL@yahoogroups.com, "PAUL VERHAGE" <paul.verhage@...> wrote:
>Hi Hi sorry about that Paul, I meant to say deploy but I had a brain fart at the same time, I hate when that happens hi hi .

cheers David ve3bbn

> Just a comment.
>
> > Yes the hoop is certainly a virtue that would ensure it deplores immediately.
>
> Yep, I hate it when my parachute doesn't deplore.
> ;)
>
> Paul
>

3022. Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-22 23:50:01 UTC
From: David Wilson
Topic: 2983 Message: 3022

Hi Dave, sorry for the delay in answering some of your questions.
I have been considering a different type of drop off mechanism.
Though it may not work in the temperatures your talking about I'll
just explain it any way. I was thinking if a sqibb interlaced in the
nylon rope ,covered with styrofoam. The signal from the ground would
be 5 pulses one second apart and all the available battery voltage
would be employed in burning through it. at this same time the
recovery Tx would be turned on for the guys on the ground to start
moving. A small sulfur charge wrapped around the squibb would add fuel
for the burn through ?? what do you think ??

cheers David ve3bbn

-- In GPSL@yahoogroups.com, "D" <wa4qal@...> wrote:
>
> --- In GPSL@yahoogroups.com, "David Wilson" <ve3bbn@> wrote:
> >
> > Greetings all, It was great to hear that the KC8UCH flight may be
> > found soon. I belong to a Canadian ARC known as NPARC (Niagara
> > Peninsula Amateur Radio Club)and we are in the process of putting
> > together our first package.
>
> Cool!
>
> One of the sticky points may be consideration of what happens
> if your balloon drifts across the US border. I think that it
> would need to comply with the US FAR (Federal Air Regulations) Part
> 101 [3]:
>
>
<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=8b5584c0cf53c0a4f4a5615491e1be66
&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.1.9.1>
>
> Do you know what the Canadian equivalent is (and have a link) [4]?
>
> [3] And, one certainly hopes that it wouldn't land in Boston, since
> it would almost certainly be regarded as a terrorist device and
> exploded. :-(In any case, it probably would be a good idea to
> label the package really well.
>
> [4] This is more than just idle questioning, since I have relatives
> in Canada, and might want to expose them to the joys of balloon
> launching one of these days.
>
> > The balloon will have 115 cuft capacity and a lift-off weight of 5

> > pounds. The payload telemetry will consist of battery level and
> > outside temperature, which will be sent to the ground on a 2meter
> > link.
>
> Sounds like a good start. Some other things you may want to think
> about for future launches would be things like battery temperature
> (which would indicate how well your insulation is working),
> illumination levels (How much brighter does it get as you go
> up [1]?), and humidity levels (although this is probably moot once
> the temperature drops below freezing) [2].
>
> [1] This will probably require an integrating sphere to minimize
> problems with light directionality. It might also be interesting
> to measure UV versus visible (versus infrared?) levels, too.
>
> [2] And, this may not be something that's easy to measure.
>
> > There will be a second FM transmitter sending the pulses for
> > detection when the payload is jettisoned. It will also operate
> > in the 2 meter band.
>
> Seems to be a reasonable band choice. Will the dropped payload
> have a GPS unit on it, or is it to be found with RDF (Radio
> Direction Finding) only? I'm assuming that the dropped payload
> will float down via parachute (Glider?).
>
> > There will also be a digital camera set to take a video of the
> > take-off and run until the memory is full or the unit freezes up
> > (whichever comes first).
>
> Should be some interesting pictures/video.
>
> > The payload will be dropped from the balloon on a signal from
> > ground and hopefully recovered intact.
>
> What's the drop mechanism?
>
> > I am interested in the battery supply others are using. Naturally
> > we need as much mah as we can get with the least weight.
>
> Once you have some ideas, it may be a good idea to test some of
> the packages by tossing the payload in a deep freezer to see how
> much voltage drop you get at decreased temperatures. That may also
> give you an indication of how well any thermal insulation is working
> for the payload package.
>
> For that matter, it might also be a good way to test the
> drop/cutdown mechanism, since mechanical things tend to not work
> well at the extreme cold temperatures found at altitude (and, we'd
> all hate to see your payload floating out over the Atlantic, never

> to be seen again!).
>
> > what type have others used? Any help and input would be greatly
> > appreciated.
> >
> > cheers David ve3bbn
>
> In any case, best of luck to your launch.
>
> Dave
> WA4QAL
>

3023. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 00:47:47 UTC
From: Harry M
Topic: 2983 Message: 3023

If you are going to use a pyro squib you will have to use something that has its own oxidizer. There is no O2 at altitude. I used a black powder squib twice with good results. The draw backs are, I had to use a new one everytime, if it fails for some reason and fires on the ground, you could cause a grass/forest or building fire and making and/or handling pyrotechnics can be very hazardous to your health and maybe illegal depending on your laws. I am now using a nichrome wire burner that is contained with no heat or fire emitted to the outside. It is a whole lot safer and is reusable.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> Hi Dave, sorry for the delay in answering some of your questions.
> I have been considering a different type of drop off mechanism.

3024. GPSL 2007: Calling all presenters!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 01:33:49 UTC
From: Roger Hammond
Topic: 3024 Message: 3024

I'm now taking volunteers and requests for sessions at the 2007 GPSL in

Grand Island, NE. If you are interested in presenting, please include the following in your response:

1. Topic (5 words or less)

2. Short description of your presentation (2 sentences or more)

3. How much time do you expect the presentation and related questions to take?

4. Do you have a preference of when you present?

5. What resources will you need for your program (projector, computer, DVD, tables, etc)?

6. A cell phone number for the presenter for questions or coordination.

If you are not interested in presenting, but would like to see someone else speak on a specific topic, I'd be interested in hearing your suggestions.

73 de Roger KCØMWM

rahammond@charter.net

www.cnnsp.org

www.superlaunch.org

3025. Lose your balloon in NH? It'll cost ya $250

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 02:41:39 UTC
From: Mark Conner
Topic: 3025 Message: 3025

..if it's not a weather balloon.

73 de Mark N9XTN

http://www.unionleader.com/article.aspx?articleId=f822935c-e2e5-420d-a188-58ca84ce7db2&headline=It%27s+%24250+a+pop+for+a+balloon+on+the+loose

=========

It's $250 a pop for a balloon on the loose

CONCORD – People will want to hold onto their balloons if the Senate agrees with a House vote yesterday to ban balloon releases.

By a vote of 215 to 111, the House approved a bill that treats balloon releases as a form of littering.

HB 62 originally barred the release of two dozen or more lighter-than-air balloons.

The version that passed yesterday could bring a $250 fine for even a single balloon let loose. A second offense could bring a $500 fine. The bill specifically exempts hot air balloons, weather balloons and others released as part of scientific research.

The bill does not penalize accidental releases.

Those who favored the bill said the balloon materials, including the attached strings and ribbons, pose a serious threat to wildlife. Whales, turtles and seabirds that live along New Hampshire's coastline mistakenly eat floating balloons thinking they are food, and then are unable to eat real food.

"Do we now get balloon police?" Rep. Randolph Holden, R-Goffstown, asked.

Rep. Kevin Waterhouse, R-Windham, said police officers would be given enforcement responsibility.

A move to give the job to Fish and Game officers was rejected, since the department is under budget pressure already.

He said people need to be aware that balloon releases cause real harm to wildlife.

"It doesn't just go to heaven and disappear. It comes back down again," Waterhouse said.

Waterhouse said he was inspired to sponsor the bill by a group of homeschoolers studying ecology.

3026. Re: [GPSL] Liabilty and risks

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 02:59:35 UTC
From: Mike Manes
Topic: 3004 Message: 3026

Hi Ralph,

Hey, thanks for bird-dogging that report! Great info, and it does kind
of confirm the level of risk that we undertake in ARHAB, especially
considering that NWS launches from their RAOB sites at 00Z and 12Z daily,
regardless of the trajectory, and with no notice to the FAA other than
launches within 5 NM of an airport. I think most of us are a whole
lot more forthcoming than that with the FAA. On the downside, ARHAB
payloads are generally a lot heavier than RAOBs, tho.

I'm curious about the livestock injuries. I'm guessing that those
resulted from a free-falling RAOB after a parachute failure. We've
had some pretty rapid descents when the 'chute got fouled during
PBC, but I think that issue is pretty well put to bed now with the
6 successive operations of the fast release device.

73 de Mike W5VSI

Ralph Wallio, W0RPK wrote:
> Regarding liability claims for NWS upper air observing (aka RAOB) flights, I received the
attached
> e-mail response last summer. Note in the last two paragraphs that the NWS has settled
liability
> claims for damages caused by landing payloads.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
> ----- Original Message -----
> From: "UpperAir" <Upperair@...>
> To: "Ralph Wallio" <RalphWallio@...>
> Sent: Wednesday, August 30, 2006 1:02 PM
> Subject: Re: FAA notification for RAOB flights(?)
>
>
> Dear Mr. Wallio,
>
> Thank you for your note requesting information on National Weather
> Service (NWS) Radiosonde launching policy
>
> I suggest you contact someone in the FAA to get more information about
> FAA policy on balloon payloads. Steven Albersheim, FAA, may be able to

> help you. His email address: steven.albersheim@... .
>
> The 92 National Weather Service upper air stations do not file NOTAMS
> because we meet FAR 101 rules as you pointed out. However, NWS offices
> within 5 miles of a controlled airport must contact the FAA Tower and
> request permission to release the balloons carrying a radiosonde.
>
> I strongly suggest that you have a plan in place on handling mishaps
> that may occur when your payload hits the ground. This is not covered
> by FAA rules. Parachutes, balloons, and other flight equipment don't
> always perform as expected and NWS has been held liable a number of
> times for damages and injuries incurred from descending radiosondes.
> Damage claims have been submitted for broken car windshields, injured
> and killed and farm livestock, and minor injuries to people, just to
> name a few. NWS attorneys handle these claims.
>
> Also, I have gotten a number of reports over the years of police/fire
> departments needlessly responding to a fallen NWS radiosonde. Many
> times the area is evacuated and police/fire department resources are
> wasted. Sadly, the Oklahoma City Bombing and September 11 have made
> this kind of response to a fallen radiosonde a more common occurrence.
> So, I recommend that you put a BIG, easy to read label on your payload
> noting that it is harmless and include a contact cell telephone
> number. It may help, especially if your team is delayed when
> retrieving the payload.
>
> Sincerely,
>
> Bill Blackmore
> Upper air Observations Program
> National Weather Service HQ
> NOAA/U.S. Department of Commerce
>
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>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3027. Re: [GPSL] Parachutes, etc

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 02:49:38 UTC
From: Mike Manes
Topic: 2983 Message: 3027

Hi David,
De nada. You may be interested in downloading a copy of EOSS's Small Balloon Handbook from eoss.org. It's kinda long in tooth, but you may find some useful tips in there anyway. Just hit the Search button on the home page and enter "handbook".
73 de Mike W5VSI

David wrote:
> Hi Mike, thank you for the info on the parachute. it was very
> informative. I knew nothing about the vent hole at the apex adding
> stability. Yes the hoop is certainly a virtue that would ensure it
> deplores immediately.
> Thanks again, and it is info like this that will make the first launch a
> winner.
>
> cheers david ve3bbn
>
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:manes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wednesday, March 21, 2007 10:06 PM
> *Subject:* Re: [GPSL] Parachutes, etc
>
> Hi David,
>
> Our 'chutes are made from ripstop nylon - not sure of the denier. A
> 2m diameter 'chute should weigh no more than about 500 grams, tho.
> And be sure that there's a generous vent at the apex: 10-15 cm diameter
> should do it OK. This helps prevent instability at high altitude.
> Use dayglow orange material which enhances visibility during descent
> and on the ground. Some of our 'chutes have alternating orange and
> white gores.
>
> The apex MUST have some means of attaching the balloon lift line as
> well, and that should be plenty strong.
>
> And be sure to fit a spreader ring about halfway up the shroud lines
> to ensure proper 'chute opening. Ours use 7 mm diameter wicker, but
> any lightweight flexible material will do. A hula hoop is suitable
> for larger 'chutes - or maybe you could use a cut-down hoop?
>
> You can probably find a suitable ready-made parachute from model
> rocket suppliers. Spherachute (sic?) here in Colorado has made
> several for EOSS. You may have to add or enlarge the vent and

> add a spreader ring, tho.
>
> 73 de Mike W5VSI
>
> David wrote:
> > Hi Mike nice of you to drop in. FB on the LiSO2 cells.That will
> > certainly be our choice, thanks.
> > Great on the parachute also, yes we will probably go for the 2 meter
> > size, and is there a prefered material which is very light to stay
> > within our payload weight?
> >
> > thanks again Mike es cheers
> >
> > David ve3bbn
> >
> >
> > ----- Original Message -----
> > *From:* Mike Manes <mailto:manes@...
> <mailto:manes%40attglobal.net>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Sent:* Wednesday, March 21, 2007 2:58 AM
> > *Subject:* Re: [GPSL] Balloon Launch
> >
> > Hi David,
> >
> > GL on your first flight! Sounds as though you have the right set
> > of beacons, but what freqs will they be on?
> >
> > LiSO2 primary cells have proven to operate quite well in balloon
> > payloads. They have excellent energy density and low-temperature
> > tolerance compared to other chemistries. You can buy them new as
> > CR123 Li camera batteries, or more bang for the buck as surplus
> > BA-5513/U batteries - the individual cells operate at about 2.7
> > at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
> > bad for 85 gm per cell and US$2 per cell. A camera store in NYC
> > sells them, but can't recall the name - try Googling BA-5513/U.
> >
> > I assume that you have a parachute for your descent? A 1.8m diameter
> > conical should be about right for that payload. If you want to get
> > the payloads back, recommend deploying a recovery team around the
> > landing site as predicted by WinBallTrack, downloadable from
> > www.eoss.org.
> >
> > 73 de Mike W5VSI
> > Prez EOSS
> >
> > David Wilson wrote:
> > > Greetings all, It was great to hear that the KC8UCH flight may be
> > > found soon. I belong to a Canadian ARC known as NPARC (Niagara

> > > Peninsula Amateur Radio Club)and we are in the process of putting
> > > together our first package. The balloon will have 115 cuft capacity
> > > and a lift-off weight of 5 ponds.The payload telemetry will
> > consist of
> > > battery level and
> > > outside temperature, which will be sent to the ground on a 2meter
> > link.
> > > There will be a second FM transmitter sending the pulses for
> > > detection when the payload is jettisoned. It will also operate
> in the
> > > 2 meter band.
> > > There will also be a digital camera set to take a video of the
> > take-off
> > > and run until the memory is full or the unit freezes up (whichever
> > > comes first).
> > > The payload will be dropped from the balloon on a signal from
> ground
> > > and hopefully recovered intact.
> > > I am interested in the battery supply others are using.
> Naturally we
> > > need as much mah as we can get with the least weight.
> > > what type have others used? Any help and input would be greatly
> > > appreciated.
> > >
> > > cheers David ve3bbn
> > >
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> > >
> > > Yahoo! Groups Links
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> > >
> >
> > --
> > Mike Manes manes@... <mailto:manes%40attglobal.net>
> <mailto:manes%40attglobal.net> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
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>
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>
>

--
Mike Manes manes@... Tel: 303-979-4899
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3028. Re: [GPSL] GPSL 2007: Calling all presenters!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 13:18:21 UTC
From: PAUL VERHAGE
Topic: 3024 Message: 3028

Roger, here's what I'm planning.

1. Topic (5 words or less)
PongSat Flight Computer

2. Short description of your presentation (2 sentences or more)
Cramming a flight computer inside a ping pong ball and still getting
enough data from it to make it worth while.

3. How much time do you expect the presentation and related questions
to
take?
No more than 30 minutes.

4. Do you have a preference of when you present?
No preference of when

5. What resources will you need for your program (projector, computer,
DVD,
tables, etc)?
Projector and laptop. I'll bring the presentation on a jump drive.
I'll have items to pass around for show.

6. A cell phone number for the presenter for questions or
coordination.
(208) 631-7162

If you are not interested in presenting, but would like to see someone
else
speak on a specific topic, I'd be interested in hearing your
suggestions.

73 de Roger KCØMWM

rahammond@...

www.cnnsp.org

www.superlaunch.org

3029. Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 15:12:28 UTC
From: D
Topic: 2983 Message: 3029

--- In GPSL@yahoogroups.com, "David Wilson" <ve3bbn@...> wrote:
>
> Hi Dave, sorry for the delay in answering some of your questions.
> I have been considering a different type of drop off mechanism.
> Though it may not work in the temperatures your talking about I'll
> just explain it any way. I was thinking if a sqibb interlaced in the
> nylon rope ,covered with styrofoam. The signal from the ground would
> be 5 pulses one second apart and all the available battery voltage
> would be employed in burning through it. at this same time the
> recovery Tx would be turned on for the guys on the ground to start
> moving. A small sulfur charge wrapped around the squibb would add fuel
> for the burn through ?? what do you think ??

I can envision a couple of problems. The first is getting the
fire started, and the second is getting the fire extinguished.

There's almost no Oxygen at altitude, so any pyrotechnic device
will have to contain it's own oxidizer (as one of the other guys
has already pointed out). One such material is gun-powder. However,
note that black gun powder has a nasty tendency, under certain
conditions, to explode rather than combust. And, you really don't
want an explosion, either at altitude or on the ground. Also, note
that black gun powder is shock sensitive, and static sensitive.
It's pretty awful stuff, and demands the utmost in respect and care
at all times.

Smokeless gun powder doesn't have most of these problems, although
it may be a little harder to ignite. However, you still have to
come up with a way to contain it (since it is a powder) that doesn't
form a pipe bomb if something goes wrong [1]!

[1] I've personally burned a quarter pound pile of smokeless powder
with no problems; it just sits there and flames rather vigoursly
(but, make sure it's unconfined!) [2]. I wouldn't even think of
trying to burn an ounce of black powder, due to the explosion
possibility.

[2] This is, by no means, an endorsement of anyone trying this
themselves, especially without appropriate safety equipment and
training!

You might have better success with something such as a model rocket
engine, although finding one with a short enough burn time and
Isp may be a trick (since you don't really want to be flying the
payload around too much).

In any case, you'll need to worry about how to put the fire out, once ignited, since a flaming payload wouldn't be anyone's idea of fun! Sytrofoam is notorious for melting/burning in a manner somewhat similar to napalm! You'd almost certainly have to pack the pyrotechnic device in fiber glass, or some other non flammable material (and, consider where the hot gases will go, too, since they may ignite something).

I've seen (but don't have any personal experience with) what appears to be a better device. That device consists of a small metal film resistor which has the Nylon support line wrapped around it. To operate it, it's connected across the battery, and immediately overheats, softening/melting the Nylon support line, which results in it breaking. That might be a LOT safer than having an actual flame. Plus, there's not nearly the safety concerns about having an armed pyrotechnic device laying on the ground (due to it failing to fire when commanded), and what happens when the local population attempts to cut the package open (to see if it contains any beer).

> cheers David ve3bbn

Dave
WA4QAL

3030. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 15:46:00 UTC
From: Harry M
Topic: 2983 Message: 3030

Pyro and Ballooning

Just a few comments so you don't think my previous comments come from a backyard pyro. I was a Firefighter for 27 years. Outside my Firefighter job I have professional training and 15 years experience in the developement and use of black powder & composite rocket motors and formularies for explosives and pyrotechnics, ATF Class A,B,C,D. Unless you have professional training and experience I do not recommend experimenting with pyro at all. It's just not worth the risk!

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3031. BEAR

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 18:44:53 UTC
From: Harry M
Topic: 3031 Message: 3031

David,

You may know about them, but here is a link to a group in VE land.
http://www.sbszoo.com/bear/default.htm

73 Harry KC5TRB

3032. Re: [GPSL] Parachutes, etc

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 23:39:25 UTC
From: David
Topic: 2983 Message: 3032

thanks mike will do.

cheers David ve3bbn
----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Thursday, March 22, 2007 10:49 PM
Subject: Re: [GPSL] Parachutes, etc

Hi David,
De nada. You may be interested in downloading a copy of EOSS's Small
Balloon Handbook from eoss.org. It's kinda long in tooth, but you may
find some useful tips in there anyway. Just hit the Search button on
the home page and enter "handbook".
73 de Mike W5VSI

David wrote:
> Hi Mike, thank you for the info on the parachute. it was very
> informative. I knew nothing about the vent hole at the apex adding
> stability. Yes the hoop is certainly a virtue that would ensure it
> deplores immediately.
> Thanks again, and it is info like this that will make the first launch a
> winner.
>
> cheers david ve3bbn
>
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:manes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wednesday, March 21, 2007 10:06 PM
> *Subject:* Re: [GPSL] Parachutes, etc
>
> Hi David,
>
> Our 'chutes are made from ripstop nylon - not sure of the denier. A
> 2m diameter 'chute should weigh no more than about 500 grams, tho.
> And be sure that there's a generous vent at the apex: 10-15 cm diameter
> should do it OK. This helps prevent instability at high altitude.
> Use dayglow orange material which enhances visibility during descent
> and on the ground. Some of our 'chutes have alternating orange and
> white gores.
>
> The apex MUST have some means of attaching the balloon lift line as
> well, and that should be plenty strong.
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> And be sure to fit a spreader ring about halfway up the shroud lines
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> several for EOSS. You may have to add or enlarge the vent and
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> 73 de Mike W5VSI
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> David wrote:
> > Hi Mike nice of you to drop in. FB on the LiSO2 cells.That will
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> > size, and is there a prefered material which is very light to stay
> > within our payload weight?
> >
> > thanks again Mike es cheers
> >
> > David ve3bbn
> >
> >
> > ----- Original Message -----
> > *From:* Mike Manes <mailto:manes@...
> <mailto:manes%40attglobal.net>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Sent:* Wednesday, March 21, 2007 2:58 AM
> > *Subject:* Re: [GPSL] Balloon Launch
> >
> > Hi David,
> >
> > GL on your first flight! Sounds as though you have the right set
> > of beacons, but what freqs will they be on?
> >
> > LiSO2 primary cells have proven to operate quite well in balloon
> > payloads. They have excellent energy density and low-temperature
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> > CR123 Li camera batteries, or more bang for the buck as surplus
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> > at 500 mA load, and can be trusted to give you at least 4000 mAh. Not
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> >
> > I assume that you have a parachute for your descent? A 1.8m diameter
> > conical should be about right for that payload. If you want to get
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> > landing site as predicted by WinBallTrack, downloadable from

> > www.eoss.org.
> >
> > 73 de Mike W5VSI
> > Prez EOSS
> >
> > David Wilson wrote:
> > > Greetings all, It was great to hear that the KC8UCH flight may be
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> > > appreciated.
> > >
> > > cheers David ve3bbn
> > >
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> > > Yahoo! Groups Links
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> > >
> > --
> > Mike Manes manes@... <mailto:manes%40attglobal.net>
> <mailto:manes%40attglobal.net> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein

> >
> >
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3033. Re: [GPSL] BEAR

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-23 23:46:09 UTC
From: David
Topic: 3031 Message: 3033

Thanks harry much appreciated.

Cheers David ve3bbn
----- Original Message -----
From: Harry M
To: GPSL@yahoogroups.com
Sent: Friday, March 23, 2007 2:44 PM
Subject: [GPSL] BEAR

David,

You may know about them, but here is a link to a group in VE land.
http://www.sbszoo.com/bear/default.htm

73 Harry KC5TRB

3034. Re: [GPSL] Parachutes....shroudline spreader hoops

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 00:01:37 UTC
From: wb8elk@aol.com
Topic: 3034 Message: 3034

Hi David,

I typically use the plastic embroidery hoops from the craft section at Walmart as a shroudline seperater....they come in two concentric rings, one goes over and one goes under the shroud lines and then are tightened with a thumbwheel screws and taped in place....they do make a difference...and are pretty cheap...and come in a variety of colors.

- Bill WB8ELK

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3035. Re: [GPSL] Parachutes....shroudline spreader hoops

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 00:12:52 UTC
From: David
Topic: 3034 Message: 3035

Thanks again Bill, very good idea.

cheers David
----- Original Message -----
From: wb8elk@...
To: GPSL@yahoogroups.com
Cc: ve3bbn@sympatico.ca
Sent: Friday, March 23, 2007 8:01 PM
Subject: Re: [GPSL] Parachutes....shroudline spreader hoops

Hi David,

I typically use the plastic embroidery hoops from the craft section at Walmart as a shroudline seperater....they come in two concentric rings, one goes over and one goes under the shroud lines and then are tightened with a thumbwheel screws and taped in place....they do make a difference...and are pretty cheap...and come in a variety of colors.

- Bill WB8ELK

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3036. Re: [GPSL] Parachutes....shroudline spreader hoops

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 00:14:30 UTC
From: Joe
Topic: 3034 Message: 3036

You stole my way dude!

just kidding,, except i just use one of the hoops and I epoxie the lines
with one turn around it.

Joer

wb8elk@... wrote:

>
> Hi David,
>
> I typically use the plastic embroidery hoops from the craft section
> at Walmart as a shroudline seperater....they come in two concentric
> rings, one goes over and one goes under the shroud lines and then are
> tightened with a thumbwheel screws and taped in place....they do make
> a difference...and are pretty cheap...and come in a variety of colors.
>
> - Bill WB8ELK
>
>
>
> ---
> AOL now offers free email to everyone. Find out more about what's free
> from AOL at AOL.com <http://www.aol.com?ncid=AOLAOF00020000000339>.
>

3037. Re: [GPSL] Parachutes....shroudline spreader hoops

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 00:20:59 UTC
From: wb8elk@aol.com
Topic: 3034 Message: 3037

You stole my way dude!

just kidding,, except i just use one of the hoops and I epoxie the lines
with one turn around it.

Hi Joe,

Great minds think alike...particularly when they share the same birthday
LOL.

- Bill WB8ELK

********** AOL now offers free email to everyone.
Find out more about what's free from AOL at http://www.aol.com.

3038. Re: [GPSL] GPSL 2007: Calling all presenters!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 00:22:54 UTC
From: wb8elk@aol.com
Topic: 3024 Message: 3038

Roger,

My presentation title:

Long Duration Flight Techniques - to include HF telemetry methods for long distance telemetry.

25 to 30 minutes.....computer with DVD with projector.

If time allows...I could also present another topic:....20 years of ARHAB history.

- Bill WB8ELK

********** AOL now offers free email to everyone.
Find out more about what's free from AOL at http://www.aol.com.

3039. Cutdown mechanisms

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 00:41:33 UTC
From: wb8elk@aol.com
Topic: 3039 Message: 3039

Hi David,

I agree with the consensus of avoiding pyrotechnical devices for cutdowns....although they may work well in the troposphere, you'll find that they may prove to be a reliability problem in the near vacuum of the stratosphere....also, the fire hazard on the ground could be a problem.

Contact Mike Manes W5VSI for details on his unique mechanical release mechanism which operates automatically right at the point of balloon burst which prevents PBC (post burst chaos) which can tangle up parachutes with the remnants of balloon material....I believe the info is on the _www.eoss.org_ (http://www.eoss.org) website.

If you want to cutdown before balloon burst, then:

We've flown with quite a bit of success:

Nichrome wire wrapped around the flight string.....activated by a MOSFET attached to a 318 MHz garage opener style receiver and attached in a small lightweight box just above the parachute....the transmitter was on the main payload and also was a garage opener style unit turned on by an uplinked touchtone command....it's only activated for about 8 seconds each time the uplink command is sent to prevent overheating problems inside the cutdown payload.

Another method is the Buzz-O-Matic...a servo operated linkage that releases the flight string when activated....it can be mounted on the main payload....the beauty of this design is that the servo has very little stress on it.....Gary Dion N4TXI has the design here: _http://www.garydion.com_ (http://www.garydion.com)

Also, the latest technique that's being used at the UAH Balloonsat class is to take an archer's bow release mechanism and have a servo trip the trigger on it......you can buy the bow releases at Walmart for around 10 to 15 bucks or so.

- Bill WB8ELK

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Find out more about what's free from AOL at http://www.aol.com.

3040. Re: [GPSL] Parachutes....shroudline spreader hoops

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 02:23:27 UTC
From: Mark Conner
Topic: 3034 Message: 3040

I got started with wire wreath rings due to a concern for the brittleness of the plastic hoops at altitude. However, after about six years of use some of the welds (if you can call them that) have popped and I probably should replace them.

I believe Paul KD4STH uses wooden ones.

73 de Mark N9XTN

On 3/23/07, wb8elk@... <wb8elk@...> wrote:
> Hi David,
>
> I typically use the plastic embroidery hoops from the craft section at Walmart as a shroudline seperater....they come in two concentric rings, one goes over and one goes under the shroud lines and then are tightened with a thumbwheel screws and taped in place....they do make a difference...and are pretty cheap...and come in a variety of colors.
>
> - Bill WB8ELK

3041. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 04:15:06 UTC
From: Mike Manes
Topic: 2983 Message: 3041

Hi David,

A 1 or 2 ohm length of #28 or #30 AWG NiCr (nichrome) wire, as often found in hair dryers, wrapped tightly around the nylon lift line and insulated by 1+ cm of styrofoam is effective. Just hit it with the full output of a 2x or 3x series of CR123 LiSO2 cells for 10 sec; the line will melt and separate under tension in about 4 sec. Tension is required, though, and 4 sec is time enough for burst latex shards to tangle in your 'chute shroud lines from time to time. The CR123's are good for about 10 shots, and rigging a new line into the burner takes about 15 tedious minutes.

EOSS has been using a mechanical fast release for over a year with excellent results. There a pix on www.eoss.org/about/ and hardware. Latest version is armed at about 70K' by a surplus RAOB anaeroid cell and weighs in at 168 gm complete with commandable backup release. Re-rigging takes about 2 sec once a new ring is tied onto the lift line.

73 de Mike W5VSI

David Wilson wrote:
> Hi Dave, sorry for the delay in answering some of your questions.
> I have been considering a different type of drop off mechanism.
> Though it may not work in the temperatures your talking about I'll
> just explain it any way. I was thinking if a sqibb interlaced in the
> nylon rope ,covered with styrofoam. The signal from the ground would
> be 5 pulses one second apart and all the available battery voltage
> would be employed in burning through it. at this same time the
> recovery Tx would be turned on for the guys on the ground to start
> moving. A small sulfur charge wrapped around the squibb would add fuel
> for the burn through ?? what do you think ??
>
> cheers David ve3bbn
>
>
>
> -- In GPSL@yahoogroups.com, "D" <wa4qal@...> wrote:
>> --- In GPSL@yahoogroups.com, "David Wilson" <ve3bbn@> wrote:
>>> Greetings all, It was great to hear that the KC8UCH flight may be
>>> found soon. I belong to a Canadian ARC known as NPARC (Niagara
>>> Peninsula Amateur Radio Club)and we are in the process of putting
>>> together our first package.
>> Cool!
>>
>> One of the sticky points may be consideration of what happens
>> if your balloon drifts across the US border. I think that it

>> would need to comply with the US FAR (Federal Air Regulations) Part
>> 101 [3]:
>>
>>
> <http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=8b5584c0cf53c0a4f4a5615491e1be
66&rgn=div5&view=text&node=14:2.0.1.3.15&idno=14#14:2.0.1.3.15.1.9.1>
>> Do you know what the Canadian equivalent is (and have a link) [4]?
>>
>> [3] And, one certainly hopes that it wouldn't land in Boston, since
>> it would almost certainly be regarded as a terrorist device and
>> exploded. :-(In any case, it probably would be a good idea to
>> label the package really well.
>>
>> [4] This is more than just idle questioning, since I have relatives
>> in Canada, and might want to expose them to the joys of balloon
>> launching one of these days.
>>
>>> The balloon will have 115 cuft capacity and a lift-off weight of 5
>>> pounds. The payload telemetry will consist of battery level and
>>> outside temperature, which will be sent to the ground on a 2meter
>>> link.
>> Sounds like a good start. Some other things you may want to think
>> about for future launches would be things like battery temperature
>> (which would indicate how well your insulation is working),
>> illumination levels (How much brighter does it get as you go
>> up [1]?), and humidity levels (although this is probably moot once
>> the temperature drops below freezing) [2].
>>
>> [1] This will probably require an integrating sphere to minimize
>> problems with light directionality. It might also be interesting
>> to measure UV versus visible (versus infrared?) levels, too.
>>
>> [2] And, this may not be something that's easy to measure.
>>
>>> There will be a second FM transmitter sending the pulses for
>>> detection when the payload is jettisoned. It will also operate
>>> in the 2 meter band.
>> Seems to be a reasonable band choice. Will the dropped payload
>> have a GPS unit on it, or is it to be found with RDF (Radio
>> Direction Finding) only? I'm assuming that the dropped payload
>> will float down via parachute (Glider?).
>>
>>> There will also be a digital camera set to take a video of the
>>> take-off and run until the memory is full or the unit freezes up
>>> (whichever comes first).
>> Should be some interesting pictures/video.
>>
>>> The payload will be dropped from the balloon on a signal from
>>> ground and hopefully recovered intact.
>> What's the drop mechanism?

>>
>>> I am interested in the battery supply others are using. Naturally
>>> we need as much mah as we can get with the least weight.
>> Once you have some ideas, it may be a good idea to test some of
>> the packages by tossing the payload in a deep freezer to see how
>> much voltage drop you get at decreased temperatures. That may also
>> give you an indication of how well any thermal insulation is working
>> for the payload package.
>>
>> For that matter, it might also be a good way to test the
>> drop/cutdown mechanism, since mechanical things tend to not work
>> well at the extreme cold temperatures found at altitude (and, we'd
>> all hate to see your payload floating out over the Atlantic, never
>> to be seen again!).
>>
>>> what type have others used? Any help and input would be greatly
>>> appreciated.
>>>
>>> cheers David ve3bbn
>> In any case, best of luck to your launch.
>>
>> Dave
>> WA4QAL
>>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3042. Re: [GPSL] Re: Pyrotechnic cutdowns

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 05:07:56 UTC
From: Mike Manes
Topic: 2983 Message: 3042

Hi Harry,

FYI, EOSS refused to fly a student payload that planned to fire off
four Estes D engines at altitude because of the risk of igniting a
grass fire if the ignition controller messed up. That was a couple
of summers ago, when our Gov declared "Colorado's on fire!".

The NiCr burners can get orange hot, so it's a good idea to enclose
'em in an insulating housing with a fire-resistant cover - we use
Al duct tape over styrofoam. We did encounter an accidental burn
during prelaunch some time ago, and all that came out was a plume
of smoke.

Harry M wrote:
>
> Pyro and Ballooning
>
> Just a few comments so you don't think my previous comments come from a
> backyard pyro. I was a Firefighter for 27 years. Outside my Firefighter job
> I have professional training and 15 years experience in the developement and
> use of black powder & composite rocket motors and formularies for explosives
> and pyrotechnics, ATF Class A,B,C,D. Unless you have professional training
> and experience I do not recommend experimenting with pyro at all. It's just
> not worth the risk!
>
> 73 Harry
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
>
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>
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>
> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3043. Re: [GPSL] GPSL 2007: Calling all presenters!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 14:00:11 UTC
From: Jeff Dailey
Topic: 3024 Message: 3043

Roger,

My presentation title:

HALO Network, Space Weather payloads

30 to 45 minutes

Computer Projector.

Jeff Dailey
Taylor U.

_____
Bored stiff? Loosen up...
Download and play hundreds of games for free on Yahoo! Games.
http://games.yahoo.com/games/front

3044. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-24 14:41:32 UTC
From: Joe
Topic: 2983 Message: 3044

Hi David and all,

Mike Manes wrote:

>Hi David,
>

>Tension is
>required, though, and 4 sec is time enough for burst latex shards to
>tangle in your 'chute shroud lines from time to time.
>
>
We here have never seemed to have this tangle problem. I'm thinking of two possible reasons.

We have always used an oversized shroud ring. as has been discussed before, like a 18 to 24 inch diameter one. the shroud lines are practically parallel to the chute itself. This i honestly don't think is the cure. But,,

We have always had a very LONG line between the chute top and the balloon itself. This we have done not in thought of the tangle problem (since we never even thought of it, since it's never happened to us) But we've always done it for the stability of total flight train . you know to minimize the swinging side to side motion. the length maybe has ever been at the shortest of 20 feet or so.. and has been as long as close to 100 feet. But this was done to slow the pendulum effect. but it may have kept the latex shards away too.

Plus it's made recovery much simpler too if a payload is stuck in a tree, 90% of the time the end with the leftover of the balloon is reachable and it's simply pulled down!

joe
Near Space Sciences

3045. Re: [GPSL] Parachutes....shroudline spreader hoops

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-25 03:49:06 UTC
From: PAUL VERHAGE
Topic: 3034 Message: 3045

I use wooden one and epxoy the inner loop to the outer loop. Then I trim the bracket and fill the gap with a small piece of wood.

Paul

>>> <wb8elk@aol.com> 03/23/07 6:01 PM >>>

Hi David,

I typically use the plastic embroidery hoops from the craft section at Walmart as a shroudline seperater....they come in two concentric rings, one goes over and one goes under the shroud lines and then are tightened with a thumbwheel screws and taped in place....they do make a difference...and are pretty cheap...and come in a variety of colors.

- Bill WB8ELK

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3046. RE: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-26 06:09:54 UTC
From: Rick von Glahn
Topic: 2983 Message: 3046

Just to send the correct URL:

http://www.eoss.org/hardware/quick_release/index.htm

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Mike Manes
> Sent: Friday, March 23, 2007 10:15 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: Balloon Launch
>
> Hi David,
>
> A 1 or 2 ohm length of #28 or #30 AWG NiCr (nichrome) wire,
> as often found in hair dryers, wrapped tightly around the
> nylon lift line and insulated by 1+ cm of styrofoam is
> effective. Just hit it with the full output of a 2x or 3x
> series of CR123 LiSO2 cells for 10 sec; the line will melt
> and separate under tension in about 4 sec. Tension is
> required, though, and 4 sec is time enough for burst latex
> shards to tangle in your 'chute shroud lines from time to
> time. The CR123's are good for about 10 shots, and rigging a
> new line into the burner takes about 15 tedious minutes.
>
> EOSS has been using a mechanical fast release for over a year
> with excellent results. There a pix on www.eoss.org/about/
> and hardware.

...snip...

3047. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-26 22:12:02 UTC
From: David
Topic: 2983 Message: 3047

Fantastic device Mike, very well done. Ingenuity is still alive on planet earth.
Thanks Rick for the site.

cheers David ve3bbn

----- Original Message -----
From: Rick von Glahn
To: GPSL@yahoogroups.com
Sent: Monday, March 26, 2007 2:09 AM
Subject: RE: [GPSL] Re: Balloon Launch

Just to send the correct URL:

http://www.eoss.org/hardware/quick_release/index.htm

73 -- Rick, NØKKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On
> Behalf Of Mike Manes
> Sent: Friday, March 23, 2007 10:15 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Re: Balloon Launch
>
> Hi David,
>
> A 1 or 2 ohm length of #28 or #30 AWG NiCr (nichrome) wire,
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> shards to tangle in your 'chute shroud lines from time to
> time. The CR123's are good for about 10 shots, and rigging a
> new line into the burner takes about 15 tedious minutes.
>
> EOSS has been using a mechanical fast release for over a year
> with excellent results. There a pix on www.eoss.org/about/
> and hardware.

...snip...

3048. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-27 04:24:00 UTC
From: Mike Manes
Topic: 2983 Message: 3048

Awwrr .. shux! Well, thanks, David. But I think you'll find that there's a lot of ingenuity being applied by ALL the folks doing ARHAB - it's yet to become PnP or an appliance operation by any stretch of the imagination! We're eager to hear about your own innovations soon.

And sri abt the bum URL - thanks to Rick for getting it right -- as ever!

73 de Mike W5VSI

David wrote:
> Fantastic device Mike, very well done. Ingenuity is still alive on
> planet earth.
> Thanks Rick for the site.
>
> cheers David ve3bbn
>
>
> ----- Original Message -----
> *From:* Rick von Glahn <mailto:rick@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Monday, March 26, 2007 2:09 AM
> *Subject:* RE: [GPSL] Re: Balloon Launch
>
> Just to send the correct URL:
>
> http://www.eoss.org/hardware/quick_release/index.htm
> <http://www.eoss.org/hardware/quick_release/index.htm>
>
> 73 -- Rick, NØKKZ
>
> > -----Original Message-----
> > From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] On
> > Behalf Of Mike Manes
> > Sent: Friday, March 23, 2007 10:15 PM
> > To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > Subject: Re: [GPSL] Re: Balloon Launch
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> > Hi David,
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> > new line into the burner takes about 15 tedious minutes.
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> > EOSS has been using a mechanical fast release for over a year
> > with excellent results. There a pix on www.eoss.org/about/
> > and hardware.
>
> ...snip...
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3049. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-27 17:12:31 UTC
From: David
Topic: 2983 Message: 3049

Yes I am sure there is a great amount of expertise in the group.
My payload is all homebrew, will send pix later if it is ok to do so .

cheers David ve3bbn
----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Tuesday, March 27, 2007 12:24 AM
Subject: Re: [GPSL] Re: Balloon Launch

Awwrr .. shux! Well, thanks, David. But I think you'll find that
there's a lot of ingenuity being applied by ALL the folks doing
ARHAB - it's yet to become PnP or an appliance operation by any
stretch of the imagination! We're eager to hear about your own
innovations soon.

And sri abt the bum URL - thanks to Rick for getting it right --
as ever!

73 de Mike W5VSI

David wrote:
> Fantastic device Mike, very well done. Ingenuity is still alive on
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> Thanks Rick for the site.
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>
>
> ----- Original Message -----
> *From:* Rick von Glahn <mailto:rick@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Monday, March 26, 2007 2:09 AM
> *Subject:* RE: [GPSL] Re: Balloon Launch
>
> Just to send the correct URL:
>
> http://www.eoss.org/hardware/quick_release/index.htm
> <http://www.eoss.org/hardware/quick_release/index.htm>
>
> 73 -- Rick, NØKKZ
>
> > -----Original Message-----
> > From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] On
> > Behalf Of Mike Manes

> > Sent: Friday, March 23, 2007 10:15 PM
> > To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> > Subject: Re: [GPSL] Re: Balloon Launch
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> > Hi David,
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> > time. The CR123's are good for about 10 shots, and rigging a
> > new line into the burner takes about 15 tedious minutes.
> >
> > EOSS has been using a mechanical fast release for over a year
> > with excellent results. There a pix on www.eoss.org/about/
> > and hardware.
>
> ...snip...
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3050. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-28 02:38:39 UTC
From: Mike Manes
Topic: 2983 Message: 3050

Hi David,

Since Payload's 'R Us still hasn't gone international, no wonder you
have to homebrew 'em :=P (fact is, ARHAB and the shorter microwaves
are about the only remaining homebrew driven aspect of ham radio).

Since I still have dialup i'net service, pack the pix down as 25%
jpegs and the email under 1 meg. Or maybe you have a web site
where you could post 'em for all this reflector to peek at?

73 de Mike W5VSI

David wrote:
> Yes I am sure there is a great amount of expertise in the group.
> My payload is all homebrew, will send pix later if it is ok to do so .
>
> cheers David ve3bbn
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:manes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, March 27, 2007 12:24 AM
> *Subject:* Re: [GPSL] Re: Balloon Launch
>
> Awwrr .. shux! Well, thanks, David. But I think you'll find that
> there's a lot of ingenuity being applied by ALL the folks doing
> ARHAB - it's yet to become PnP or an appliance operation by any
> stretch of the imagination! We're eager to hear about your own
> innovations soon.
>
> And sri abt the bum URL - thanks to Rick for getting it right --
> as ever!
>
> 73 de Mike W5VSI
>
> David wrote:
> > Fantastic device Mike, very well done. Ingenuity is still alive on
> > planet earth.
> > Thanks Rick for the site.
> >
> > cheers David ve3bbn
> >
> >
> > ----- Original Message -----
> > *From:* Rick von Glahn <mailto:rick@fastmail.us
> <mailto:rick%40fastmail.us>>

> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Sent:* Monday, March 26, 2007 2:09 AM
> > *Subject:* RE: [GPSL] Re: Balloon Launch
> >
> > Just to send the correct URL:
> >
> > http://www.eoss.org/hardware/quick_release/index.htm
> <http://www.eoss.org/hardware/quick_release/index.htm>
> > <http://www.eoss.org/hardware/quick_release/index.htm
> <http://www.eoss.org/hardware/quick_release/index.htm>>
> >
> > 73 -- Rick, NØKKZ
> >
> > > -----Original Message-----
> > > From: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>] On
> > > Behalf Of Mike Manes
> > > Sent: Friday, March 23, 2007 10:15 PM
> > > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > > Subject: Re: [GPSL] Re: Balloon Launch
> > >
> > > Hi David,
> > >
> > > A 1 or 2 ohm length of #28 or #30 AWG NiCr (nichrome) wire,
> > > as often found in hair dryers, wrapped tightly around the
> > > nylon lift line and insulated by 1+ cm of styrofoam is
> > > effective. Just hit it with the full output of a 2x or 3x
> > > series of CR123 LiSO2 cells for 10 sec; the line will melt
> > > and separate under tension in about 4 sec. Tension is
> > > required, though, and 4 sec is time enough for burst latex
> > > shards to tangle in your 'chute shroud lines from time to
> > > time. The CR123's are good for about 10 shots, and rigging a
> > > new line into the burner takes about 15 tedious minutes.
> > >
> > > EOSS has been using a mechanical fast release for over a year
> > > with excellent results. There a pix on www.eoss.org/about/
> > > and hardware.
> >
> > ...snip...
> >
> >
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.

> Einstein
>
>

--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3051. Re: [GPSL] Re: Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-28 15:12:25 UTC
From: David
Topic: 2983 Message: 3051

Hi Mike, I'll try to get them down as much as I can. I hbrew everything I use, I think I'm just hung up on building hi hi .
I have just finished a Spectrum analyzer for 0 to 30 mhz. the display is fantastic.
Can even see the beacons down below 500khz. I am basically a HF builder and operator mostly on 80m. My Tx is built with 7 metal tubes and the amplifier is an 813. The Rx covers 3 chassis has a 50 ft bandspread for only 250 khz and a bandpass of only 80 hz, no xtals only tuned circuits with 1pf coupling (very hi Q), and has 42 metal tubes in it.
Enough of this old stuff, hi hi.

cheers David ve3bbn

Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Tuesday, March 27, 2007 10:38 PM
Subject: Re: [GPSL] Re: Balloon Launch

Hi David,

Since Payload's 'R Us still hasn't gone international, no wonder you have to homebrew 'em :=P (fact is, ARHAB and the shorter microwaves are about the only remaining homebrew driven aspect of ham radio).

Since I still have dialup i'net service, pack the pix down as 25% jpegs and the email under 1 meg. Or maybe you have a web site where you could post 'em for all this reflector to peek at?

73 de Mike W5VSI

David wrote:
> Yes I am sure there is a great amount of expertise in the group.
> My payload is all homebrew, will send pix later if it is ok to do so .
>
> cheers David ve3bbn
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:manes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, March 27, 2007 12:24 AM
> *Subject:* Re: [GPSL] Re: Balloon Launch
>
> Awwrr .. shux! Well, thanks, David. But I think you'll find that
> there's a lot of ingenuity being applied by ALL the folks doing
> ARHAB - it's yet to become PnP or an appliance operation by any
> stretch of the imagination! We're eager to hear about your own
> innovations soon.
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> And sri abt the bum URL - thanks to Rick for getting it right --
> as ever!
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> David wrote:
> > Fantastic device Mike, very well done. Ingenuity is still alive on
> > planet earth.
> > Thanks Rick for the site.
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> > cheers David ve3bbn
> >
> >
> > ----- Original Message -----
> > *From:* Rick von Glahn <mailto:rick@fastmail.us
> <mailto:rick%40fastmail.us>>
> > *To:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > *Sent:* Monday, March 26, 2007 2:09 AM
> > *Subject:* RE: [GPSL] Re: Balloon Launch
> >
> > Just to send the correct URL:
> >
> > http://www.eoss.org/hardware/quick_release/index.htm
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> > <http://www.eoss.org/hardware/quick_release/index.htm
> <http://www.eoss.org/hardware/quick_release/index.htm>>
> >
> > 73 -- Rick, NØKKZ
> >
> > > -----Original Message-----
> > > From: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>] On
> > > Behalf Of Mike Manes
> > > Sent: Friday, March 23, 2007 10:15 PM
> > > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>>
> > > Subject: Re: [GPSL] Re: Balloon Launch
> > >
> > > Hi David,
> > >
> > > A 1 or 2 ohm length of #28 or #30 AWG NiCr (nichrome) wire,
> > > as often found in hair dryers, wrapped tightly around the
> > > nylon lift line and insulated by 1+ cm of styrofoam is
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> > > series of CR123 LiSO2 cells for 10 sec; the line will melt
> > > and separate under tension in about 4 sec. Tension is
> > > required, though, and 4 sec is time enough for burst latex

> > > shards to tangle in your 'chute shroud lines from time to
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> > > new line into the burner takes about 15 tedious minutes.
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> > > EOSS has been using a mechanical fast release for over a year
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> > > and hardware.
> >
> > ...snip...
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> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
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>

--
Mike Manes manes@... Tel: 303-979-4899
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3052. GPSL 2007 presenters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-30 02:27:54 UTC
From: Roger Hammond
Topic: 3052 Message: 3052

Here's what I have so far:

==========
Reach For Space Sometimes The Fox Wins
NearSys PongSat Flight Computer
Bill Brown Long Duration Flight Techniques
& possibly 20 Years of ARHAB History
Taylor University HALO Network
==========

If anyone else has a presentation they would like to give, please forward me the details.

Some additional information that hasn't reached the www.superlaunch.org website:

Thursday evening meal will likely be at El Tapatio at 6:30 PM for those getting into town early enough.
Friday evening meal at Valentinos at 6:00 PM, Valentinos is casual Italian. They do a pizza and pasta buffet, with a salad bar, taco bar, dessert bar, etc.

I'm still figuring out what to do for Saturday's lunch and dinner.

73 de Roger KCØMWM

3053. Power supply for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-30 02:49:56 UTC
From: Jon Riley
Topic: 3053 Message: 3053

I have a couple of power supplys for sale.They are not home brew.They
are Sola Electronics, 14volt 10amp($15),the other is a 5volt 12amp($20)
I have some scanners ,too.Contact me for more info.

Jon
AJ0NR

3054. Re: [GPSL] GPSL 2007 presenters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-30 04:49:26 UTC
From: Mike Manes
Topic: 3052 Message: 3054

Hi Roger,

The Research Channel ran a 30-minute production on the Univ of Ky
Big Blue inflatable wing Mars glider project that EOSS has been
supporting for several years. I Tivo'ed it and could bring out
a VHS tape to play, if you're looking for conference slots to fill.

73 de Mike W5VSI

Roger Hammond wrote:
> Here's what I have so far:
>
> ==
> Reach For Space Sometimes The Fox Wins
> NearSys PongSat Flight Computer
> Bill Brown Long Duration Flight Techniques
> & possibly 20 Years of ARHAB History
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> forward me the details.
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> Some additional information that hasn't reached the www.superlaunch.org
> <http://www.superlaunch.org> website:
>
> Thursday evening meal will likely be at El Tapatio at 6:30 PM for those
> getting into town early enough.
> Friday evening meal at Valentinos at 6:00 PM, Valentinos is casual
> Italian. They do a pizza and pasta buffet, with a salad bar, taco bar,
> dessert bar, etc.
>
> I'm still figuring out what to do for Saturday's lunch and dinner.
>
> 73 de Roger KCØMWM
>

--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3055. KC8UCH balloon still flying over Lake Erie north of Norwalk, Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-31 02:11:05 UTC
From: wb8elk@aol.com
Topic: 3055 Message: 3055

My best guess is that it's over Lake Erie just north of Norwalk, OH on it's way slowly to Cleveland and parts east-southeast.

If anyone can rustle up someone in the Cleveland area to listen on 445.975 MHz FM, that'd be great....or on towards western PA....it will quite possibly stay up all night and into the next day. It is transmitting about 15 milliwatts from a BigRedBee board....no GPS...just voltage telemetry in audio CW.

It is still being heard by KA8LWR in Bucyrus, Ohio as of 10:08 pm EDT at a 10 degree bearing from his QTH.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3056. HF antenna help

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-31 03:00:52 UTC
From: Jon Riley
Topic: 3056 Message: 3056

I am wanting ideas from other people on HF verticals.What are you using?

Jon
AJ0NR

3057. RE: [GPSL] GPSL 2007 presenters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-03-31 15:17:43 UTC
From: Roger Hammond
Topic: 3052 Message: 3057

Mike,

Please plan on bringing the Big Blue video. If nothing else, I'd like to get
a copy of it to watch for myself.
Is there a chance someone in your group could convert it over to DVD? If
not, we can make the VHS work.
It looks like there will probably be a slot for it in the program.

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
Manes
Sent: Thursday, March 29, 2007 11:49 PM
To: GPSL@yahoogroups.com
Cc: Nick Hanks N0LP
Subject: Re: [GPSL] GPSL 2007 presenters

Hi Roger,

The Research Channel ran a 30-minute production on the Univ of Ky
Big Blue inflatable wing Mars glider project that EOSS has been
supporting for several years. I Tivo'ed it and could bring out
a VHS tape to play, if you're looking for conference slots to fill.

73 de Mike W5VSI

Roger Hammond wrote:
> Here's what I have so far:
>
> ==
> Reach For Space Sometimes The Fox Wins
> NearSys PongSat Flight Computer
> Bill Brown Long Duration Flight Techniques
> & possibly 20 Years of ARHAB History
> Taylor University HALO Network
>
> ==
>
> If anyone else has a presentation they would like to give, please
> forward me the details.
>
> Some additional information that hasn't reached the www.superlaunch.org
> <http://www.superlau <http://www.superlaunch.org> nch.org> website:
>
> Thursday evening meal will likely be at El Tapatio at 6:30 PM for those
> getting into town early enough.

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> Italian. They do a pizza and pasta buffet, with a salad bar, taco bar,
> dessert bar, etc.
>
> I'm still figuring out what to do for Saturday's lunch and dinner.
>
> 73 de Roger KCØMWM
>

--
Mike Manes manes@attglobal. <mailto:manes%40attglobal.net> net Tel:
303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3058. Live Status page for the UTARC balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-01 02:09:46 UTC
From: wb8elk@aol.com
Topic: 3058 Message: 3058

Here's the link for their live updates on the launch....they will also list
the actual balloon frequency if it drifts during flight.

- Bill WB8ELK

_http://www.utarc.org/wiki/index.php/Icarus_II_Status_
(http://www.utarc.org/wiki/index.php/Icarus_II_Status)

PS...20m is still open to Mexico, South American and Alaska from here.

********** See what's free at http://www.aol.com.

3059. Re: [GPSL] HF antenna help

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-01 17:05:36 UTC
From: David
Topic: 3056 Message: 3059

Hi Jon, nice to hear your putting up a vert ant. I have a vert 80 m antenna ground mounted gamma matched and 48 70 ft radials. It works like gangbusters , now I'm waiting for the balloon guys to start transmitting on 80m hi hi .
Antenna is a 60 foot, old TV tower, was given to me so I used it. Must keep costs down you know.
cheers David
----- Original Message -----
From: Jon Riley
To: GPSL@yahoogroups.com
Sent: Friday, March 30, 2007 11:00 PM
Subject: [GPSL] HF antenna help

I am wanting ideas from other people on HF verticals.What are you using?

Jon
AJ0NR

3060. Fwd: [SGSatellites] Balloon Prediction Software?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-07 23:52:24 UTC
From: Joe Lynch
Topic: 3060 Message: 3060

Dear Colleagues,

The following was posted on the SGSatellites listserv (Space Grant Foundation). Perhaps someone can give Mark a hand. Please correspond directly to him to the address below. Thank you.

73,

Joe Lynch, N6CL

Mark Ford <markus@...> wrote:
Greetings,

We're getting ready to conduct our first launch on or about Sunday, April 22nd from Bethel, ME. I would like to be able to predict the balloon's track and estimated landing location. What are people using for software?

I've tinkered with Balloon Track from EOSS (still trying to figure out how to get a prediction out of it) and the On-Line Near Space Flight Track Prediction Utility from Near Space Ventures. We'll be using UI-View32, so it would be great to generate an overlay for that.

If anyone has built a prediction utility in MS Access, that would be really cool.

Thanks,
-- Mark

Mark Ford
- English Teacher, Telstar High School
- Coach, USM Scientific Ballooning Group

Home:
103 Thyngs Mill Road
North Waterboro, Maine 04061
C: 207-590-4736
H: 207-793-4397
Email: markus@...
Ham: KB1MSA

School:
English Department - Rm 209
Telstar Middle/High School
284 Walkers Mills Rd.
Bethel, Maine 04217
S: 207-824-2136
Email: fordm@...

_____
SGSatellites mailing list
SGSatellites@...
http://spacegrant.org/mailman/listinfo/sgsatellites_spacegrant.org

3061. Mike's Email

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-09 14:12:08 UTC
From: PAUL VERHAGE
Topic: 3061 Message: 3061

Mike, I was trying to send you a message, but I have a bad email address. Can you send me the correct one?

Paul

3062. Balloon lost near Ephrata, WA

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-09 18:11:17 UTC
From: mconner1@gmail.com
Topic: 3062 Message: 3062

Got this article forwarded to me from Mike N0QBH:

http://www.makezine.com/blog/archive/2007/04/ahab_update.html
http://www.makezine.com/blog/archive/2007/04/near_space_balloon_update.html

I don't know any more about the flight than what's contained in the article, not even if it contained an APRS transmitter. Their search area is about 20 miles NW of Ephrata, WA and 20 miles west of the Grand Coulee Dam.

73 de Mark N9XTN

3063. Fw: Amateur Radio High Altitude Ballooning

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-09 19:15:57 UTC
From: Ralph Wallio, W0RPK
Topic: 3063 Message: 3063

Regarding Mark's posting, I stumbled on web pages for this group
(http://balloon.pbwiki.com/) and
sent the attached message. No response to date. -- Ralph W0RPK

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
To: <eric@...>
Sent: Friday, April 06, 2007 2:59 PM
Subject: Amateur Radio High Altitude Ballooning

Eric --

I stumbled on your very interesting high altitude balloon experiment web pages. There are several
Amateur Radio High Altitude Ballooning groups (ARHAB) across the US (and Canada and Europe). Most
groups have extensive web pages for which you will find many links via
http://showcase.netins.net/web/wallio/ARHABlinks.htm. The closest active groups are TVNSP centered
on Boise ID and Northwest Nazarene University also in Idaho. Flights have also been launched from
Fire in the Sky, http://www.fireinthesky.org/.

You are welcome to submit ARHAB Launch Announcements which would be posted to
http://showcase.netins.net/web/wallio/ARHABlaunchannouncements.htm.

You are welcome to submit ARHAB Record entries. See
http://showcase.netins.net/web/wallio/ARHABrecords.htm for our numerous categories.

Collectively there are ~115 ARHAB flights annually.

More discussion if/when it will help.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3064. Re: [GPSL] Balloon lost near Ephrata, WA

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-09 19:19:52 UTC
From: wb8elk@aol.com
Topic: 3062 Message: 3064

From what I could find doing a google search for their project name of AHAB:

http://balloon.pbwiki.com/ (http://balloon.pbwiki.com/)

I believe it's Washington University's group.

Callsign:

KE7GRE-11

********** See what's free at http://www.aol.com.

3065. High-altitude ballooning featured on spaceweather.com

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-10 14:41:39 UTC
From: mconner1@gmail.com
Topic: 3065 Message: 3065

http://spaceweather.com/

STRATOSPHERIC PHOTOGRAPHY: Consider it a test flight. Swedish University students Jörgen Hedin and Michael Erneland wondered what it would be like to send an ordinary digital camera into the stratosphere and take a picture of the scenery. So on March 28th they launched a weather balloon with a Samsung DigiMax Pro 815 onboard, and here is the result:

"This photo was taken about two and a half hours into the flight at an altitude of 25 km," says Hedin. "The balloon was straight above the city of Rovaniemi in Finland and the camera was pointing east. In the high resolution image one can see the Swedish/Norwegian mountains in the distance."

At an altitude of 25 km, the balloon was above 95% of Earth's atmosphere. The air was only a few percent as dense as air at sea level, and the temperature was about 55 degrees C below zero. These are conditions typical of the planet Mars! How appropriate that the black of space is visible just over the horizon.

The test flight was a big success and more flights are planned. Stay tuned for photos of meteors, auroras, stars and planets--the possibilities are stratospheric.

3066. Email Down

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-16 14:10:02 UTC
From: PAUL VERHAGE
Topic: 3066 Message: 3066

My email was down from Thursday. If you sent me any email, could you do so again?

Thanks,
Paul

3067. QSO record distances via ANSR-37

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-16 18:44:05 UTC
From: Ralph Wallio, W0RPK
Topic: 3067 Message: 3067

QSO info has been received verifying the following distance records via ANSR-37:

N8DEZ/6 (Stephen) CA <> N5QO (Dale) NM
34 48'46.47"N 32 deg 46.766'N
119 08'43.56"W 105 deg 49.178'W
8,800ft ASL 9,160ft ASL
QSO great circle distance: 777mi (#1 ARHAB record)

KQ6UP (Chris) CA <> N5QO (Dale) NM
N35 02 00.0 32 deg 46.766'
W118 29 12.7 105 deg 49.178'
7,205ft ASL 9,160ft ASL
QSO great circle distance: 742mi (#2 ARHAB record)

KQ6UP (Chris) CA <> N5PAX (Bob) & KE5INE (Steve) NM
N35 02 00.0 35deg 47'13.02"N
W118 29 12.7 105deg 48'31.46"W
7,205ft ASL 10,289ft ASL
QSO great circle distance: 715mi (#3 ARHAB record)

Congratulations and thanks to everyone!

ARHAB Records have been updated.
http://showcase.netins.net/web/wallio/ARHABrecords.htm

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3068. Superlaunch website correction

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-17 02:22:24 UTC
From: Roger Hammond
Topic: 3068 Message: 3068

It was brought to my attention that there is an error on the
www.superlaunch.org website for GPSL 2007 here in Grand Island, NE.
In the Getting to Grand Island section it reads:

Grand Island is home to the Central Nebraska Regional Airport (GRI). There
are a few air carrier flights daily on commuter size aircraft. Lincoln (LNK)
is about an hour west of Grand Island on I-80, while Omaha (OMA) is about
2.5 hours west of Grand Island on I-80. Both Lincoln and Omaha have
regularly scheduled flights on several of the airlines.

The references to Omaha and Lincoln being west of Grand Island are
incorrect. They are both EAST of Grand Island. I mistakenly passed along the
incorrect information to Zack, who is keeping the website updated for me.

If any of you new GPSL list members are considering attending this year's
conference and launch, and have any questions regarding the event please
don't hesitate to email on or off this list.

Sorry about the error.

Thanks,

Roger KCØMWM
rahammond@...
www.cnnsp.org

3069. [Fwd: Jean Laby, Australian scientist]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-19 23:15:17 UTC
From: Mike Manes
Topic: 3069 Message: 3069

Norm asked me to forward this on to the reflectors.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: Jean Laby, Australian scientist
Date: Thu, 19 Apr 2007 09:05:25 -0600
From: Norman T. Kjome <Kjome@...>
To: Mike Manes <manes@...>, <Ballooning@yahoogroups.com>
CC: Bill Brown, WB8ELK <WB8ELK@...>, <stratocat.iespana.es@...>
References: <c78.10e99e66.3357be56@...>
<4626EAF9.8020004@...>

Hi Mike,

An interview of Jean Laby can be found on this website. A copy of a paper she wrote on this technique of floating a rubber balloon may still be in my old lab in Laramie - I suppose I need to phone to see what has been (will be) done with all that stuff.

She used a ping-pong ball, as I remember, and maybe there was a small spring to keep it seated. A cage around the ball/seat assembly kept the string from getting tangled (it was loosely coiled around the outside of the cage prior to launch). The neck of the balloon has to be modified, likely mostly cut away and then glued/tied around the valve assembly.

Norm

http://www.science.org.au/scientists/jl.htm

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3070. Re: [Ballooning] newbie question/zeropressure balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-19 22:26:37 UTC
From: Mike Manes
Topic: 3070 Message: 3070

Hi Luis,

Well done, sir!

She was quite the pioneer in ballooning as well in high altitude
physics. Norm was fortunate to have met her at her home some time
ago.

73 de Mike W5VSI

Luis Eduardo Pacheco wrote:
> Laby, Dr. Jean Laby. I've forgot that!
>
> An interview is here: http://www.science.org.au/scientists/jl.htm
>
> Best regards
>
> Luis Eduardo Pacheco
> StratoCat - (english version: http://stratocat.com.ar/indexe.html)
> Historical recopilation project on the use of
> stratospheric balloons in the scientific research,
> the military field and the aerospace activity
>
>
>
> 2007/4/19, Mike Manes <manes@... <mailto:manes@...>>:
>
> According to Norm, that technique was developed in the 30's or so by
> an Aussie lady named Jean (?). She was researching the newly-discovered
> cosmic rays using photographic plates loitering for many hours above
> 100K' under a valved neoprene balloon. The string was affixed to the
> inside top of the balloon by tying it around a cork, pushing it thru
> the nozzle/valve and tying the cork to the balloon skin with cord on
> the outside. The string was sized to the expected balloon diameter
> at the desired float altitude. The other end of the string was attached
> to a rubber ball that was held by gravity into a valve seat around which
> the balloon nozzle was secured.
>
> Norm: Do you have the URL for that site about Jean handy?
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3071. [Fwd: Returned mail: delivery problems encountered]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-20 22:35:47 UTC
From: Mike Manes
Topic: 729 Message: 3071
Attachments: 2 described; binary payloads are missing from this source WARC

Is anyone else encountering email daemons to Roger lately?
73 de Mike W5VSI

-------- Original Message --------
Subject: Returned mail: delivery problems encountered
Date: 20 Apr 2007 5:05:41 +0000
From: Mail Delivery Subsystem <mailer-daemon@...>
To: <manes@...>

A message (from <manes@...>) was received at 19 Apr 2007 4:24:40 +0000.

The following addresses had delivery problems:

rahammond@...
Persistent Transient Failure: Delivery time expired
Delivery last attempted at 19 Apr 2007 4:24:42 +0000

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3072. Re: [Balloon_Sked] {OT} New balloon mailing list announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-22 06:01:24 UTC
From: Mike Manes
Topic: 3072 Message: 3072

Hi Art,

You might also consider getting on the GPSL reflector, which has
sort of become the ad hoc prop-head balloonatic reflector recently.
I've taken the liberty of cc'ing it.

73 de Mike W5VSI

Art wrote:
> Greetings all,
>
> Please excuse me as I know this is slightly off topic here.
>
> But, I have established a new mailing list for all technical issues
> related to high altitude balloon flights called HABTT (High Altitude
> Balloon Tech Talk). Appropriate topics can be anything from how to float
> a balloon for long duration flights, how to set up your tracker, how to
> convert cheap FRS radios to the 440 ham band, which after market GPS to
> buy etc.
>
> It is a closed group, but only to prevent spam. For this reason, you
> must ask to join-and say a few words about why you're interested in the
> group. There is no moderation and your first spam within the group will
> be your last-no exceptions. After you are a member, you may post to the
> group.
>
> Please pass the word to any and all groups and/or individuals that might
> be interested. And, note that this is NOT a yahho mailing list-it is a
> google list. It has a files area and other yahho-like features. Except,
> google doesn't spam you, doesn't sell your email address or require you
> to associate your primary email address with your google list
> membership-nuff said::>
>
> Join at:
>
> http://groups.google.com/group/ <http://groups.google.com/group/habtt/>
> *habtt* <http://groups.google.com/group/habtt/>
>
> GL to all.
>
> Art

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3073. Near Space Article in May issue of Monitoring Times

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-24 22:00:29 UTC
From: wb8elk@aol.com
Topic: 3073 Message: 3073

I wrote an article entitled "New Heights for Amateur Radio" for the May issue (page 12) of Monitoring Times magazine which just hit the magazine racks at my local bookstore. The May issue is their annual ham radio oriented issue. There is also a good article on 10 meter propagation beacons.

This came about when my HiBall-10 flight landed just a mile away from the magazine's headquarters and near the publisher's home (Bob Grove W8JHD of Grove Enterprises in Brasstown, NC) who took part in the hunt.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3074. GPSL 2007 flight coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-27 12:52:51 UTC
From: Roger Hammond
Topic: 3074 Message: 3074

It's time to start thinking about your flight train for GPSL 2007. If you or your group intends to fly this year, please provide me with the following:

(Note: Even if you're not sure of all the parameters at this point but do intend to fly, please let me know so that I can assign time slots and anticipate the gas requirements.)

1. Name of your group
2. Website for your group
3. Callsign(s) of your payload
4. A cell phone number that will be carried on the chase (for post-recovery coordination)
5. Number of transmitters and their band (specific frequencies only if you're
rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq).
6. Size of balloon
7. Approx number of helium tanks required (K or T)
8. Total flight weight
9. Expected ascent/descent rate
10. Projected burst altitude
11. Special requirements/requests for the GPSL coordinator
12. Short description of your payload including cameras, transmission modes, experiments, etc.

73,

Roger KCØMWM
rahammond@...
www.cnnsp.org

3075. Re: [GPSL] GPSL 2007 flight coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-27 17:38:02 UTC
From: wb8elk@aol.com
Topic: 3074 Message: 3075

1. Name of your group - WB8ELK
2. Website for your group - _http://www.wb8elk.com_ (http://www.wb8elk.com)
3. Callsign(s) of your payload - WB8ELK-11 & WB8ELK-12
4. A cell phone number that will be carried on the chase (for post-recovery coordination) Will be emailed directly to you Roger
5. APRS (1 on 2m and 1 on 446.025 MHz), Simplex repeater on 146.43, ATV on 439.25, 434 or can time slot with EOSS on 426.25 - 20 MHz PSK31 on 14.065 MHz
6. Size of balloon - 1500 or 2000 gram
7. Approx number of helium tanks required (K or T) - 1
8. Total flight weight - 6 to 8 pounds
9. Expected ascent/descent rate - 1000/1300
10. Projected burst altitude - 100,000
11. Special requirements/11. Special requirements/<WBR>r
12. Short description of your payload including cameras, transmission modes, experiments, etc. Live ATV - Simplex repeater

********** See what's free at http://www.aol.com.

3076. Re: [GPSL] GPSL 2007 flight coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-27 18:42:45 UTC
From: Harry M
Topic: 3074 Message: 3076

1. Name of your group - Oklahoma Research Balloons
2. Website for your group - http://members.cox.net/hhm_74775/orb/
3. Callsign(s) of your payload - KC5TRB-11
4. A cell phone number - Will know closer to GPSL.
5. Number of transmitters and their band - 2 on VHF / 1 on UHF
6. Size of balloon - 900g ???
7. Approx number of helium tanks (K or T) - ONE (not sure of size yet)
8. Total flight weight - 3 to 4 lbs
9. Expected ascent/descent rate - 800-1000 fpm / 1400-1600 fpm
10. Projected burst altitude - 90,000
11. Special requirements/requests - None at this time.
12. Short description of payload - VHF APRS,VHF FM/CW BCN,UHF Parrot Rptr,2 Digital Cameras

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3077. something different

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-28 22:22:31 UTC
From: Brek Brixius
Topic: 3077 Message: 3077

http://www.eternalascent.com/services.html

Sounds like a nice way to go.

Brek - KC0YOE

Ahhh...imagining that irresistible "new car" smell?
Check outnew cars at Yahoo! Autos.

3078. Re: [GPSL] something different

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-28 22:54:57 UTC
From: Joe
Topic: 3077 Message: 3078

I thought I was the only one to think of this yet thought us
balloonists would be the only ones interested.

Brek Brixius wrote:

> http://www.eternalascent.com/services.html
>
> Sounds like a nice way to go.
>
> Brek - KC0YOE
>
> ---
> Ahhh...imagining that irresistible "new car" smell?
> Check out new cars at Yahoo! Autos.
> <http://us.rd.yahoo.com/evt=48245/*http://autos.yahoo.com/new_cars.html;_ylc=X3oDMTE1YW1
jcXJ2BF9TAzk3MTA3MDc2BHNlYwNtYWlsdGFncwRzbGsDbmV3LWNhcnM->
>

3079. RE: [GPSL] something different

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-28 23:36:26 UTC
From: Rick von Glahn
Topic: 3077 Message: 3079

That's amusing but I note they haven't a clue why the balloon bursts! :-)

73 -- Rick, NØKKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Saturday, April 28, 2007 4:55 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] something different

I thought I was the only one to think of this yet thought us balloonists
would be the only ones interested.

Brek Brixius wrote:

http://www.eternalascent.com/services.html

Sounds like a nice way to go.

Brek - KC0YOE

Ahhh...imagining that irresistible "new car" smell?
Check out new
<http://us.rd.yahoo.com/evt=48245/*http://autos.yahoo.com/new_cars.html;_ylc=X
3oDMTE1YW1jcXJ2BF9TAzk3MTA3MDc2BHNlYwNtYWlsdGFncwRzbGsDbmV3LWNhcnM-> cars at
Yahoo! Autos.

3080. Re: [GPSL] something different

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-28 23:52:14 UTC
From: Joe
Topic: 3077 Message: 3080

yeah it's freezing,, I did have a chuckle on that part

Joe

Rick von Glahn wrote:

> That's amusing but I note they haven't a clue why the balloon bursts! :-)
>
>
> 73 -- Rick, N?KKZ
>
>
>
> ---
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of Joe
> Sent: Saturday, April 28, 2007 4:55 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] something different
>
> I thought I was the only one to think of this yet thought us
> balloonists would be the only ones interested.
>
> Brek Brixius wrote:
>
>> http://www.eternalascent.com/services.html
>>
>> Sounds like a nice way to go.
>>
>> Brek - KC0YOE
>> ---
>> Ahhh...imagining that irresistible "new car" smell?
>> Check out new cars at Yahoo! Autos.
>> <http://us.rd.yahoo.com/evt=48245/*http://autos.yahoo.com/new_cars.html;_ylc=X3oDMTE1YW
1jcXJ2BF9TAzk3MTA3MDc2BHNlYwNtYWlsdGFncwRzbGsDbmV3LWNhcnM->
>
>
>

3081. Introducing New York Near Space Research (NYNSR)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-29 12:49:45 UTC
From: javier_ndrsn
Topic: 3081 Message: 3081

The Irvington High School Science Club is announcing the creation of a New High Altitude Balloon group. The group will be called "New York Near Space Research" or NYNSR for short and will be conducting flights by late Spring next year in the Lower Hudson Valley. We are hoping to have a website purchased by the end of this weekend and have some more information available. We have started a public Google group under the name New York Near Space Research already and you may join if you like.

73 to all,
Javier Anderson, KC2MFC

3082. GPSL 2007 flight coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-29 21:31:33 UTC
From: Nick Hanks
Topic: 3074 Message: 3082
Attachments: 1 described; binary payloads are missing from this source WARC

Rog,

Here's the data for the EOSS flight at GPSL.

73,

Nick
N?LP

1. Name of your group Edge of Space Sciences (EOSS)
2. Website for your group www.eoss.org
3. Callsign(s) of your payload AEOSS-11
4. A cell phone number that will be carried on the chase (for post-recovery coordination) 303-601-5369, Mike Morgan, N0MPM
5. Number of transmitters and their band (specific frequencies only if > you're rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq): Three, two on 2 meters and one (ATV) on 70 cm.
6. Size of balloon: 1200g
7. Approx number of helium tanks required (K or T): Full T or 1.5 K. (Nice to have a spare or two)
8. Total flight weight: 9.5 lb.
9. Expected ascent/descent rate 1200-1500 ft/min
10. Projected burst altitude 95,000 ft.
11. Special requirements/requests for the GPSL coordinator: None at this time.
12. Short description of your payload including cameras, transmission modes, experiments, etc.: Real-time ATV with position overlay fed by Zigbee B-Lan from GPS, temperature & barometric altimeter data in downlink telemetry, APRS for tracking, cutaway/beacon for track & recovery

----- Original Message -----
From: Roger Hammond
To: GPSL list
Sent: Friday, April 27, 2007 6:52 AM
Subject: [GPSL] GPSL 2007 flight coordination

It's time to start thinking about your flight train for GPSL 2007. If you or your group intends to fly this year, please provide me with the following:

(Note: Even if you're not sure of all the parameters at this point but do intend to fly, please let me know so that I can assign time slots and anticipate the gas requirements.)

3083. Re: [GPSL] GPSL 2007 flight coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-30 04:48:35 UTC
From: Brek Brixius
Topic: 3074 Message: 3083

Here is the infor for BUNS

Brek - KC0YOE

1. Name of group: BUNS (Balloons Up Near Space)
2. Website for group: None
3. Callsign of payload: KC0YOE-11
4. Cell Phone: Will email Roger Direct
5. Number of Transmitters and band: 1 Byonics Microtrak 300 on 144.39
6. Size of Balloon: 1200g.
7. Approx. number of helium tanks required: 1 T tank.
8. Total Flight Weight: 3.5 pounds
9. Expected ascent / descent rate: 1120 ft./min
10. Projected burst altitude: Timed cut away between 70k and 80k
11. Special requirements / requests for the GPSL coordinator: none at this time.
12. Short description of payload: 1 Microtrak 300 APRS, 1 Garmin Etrex, 1 Batman camera and timer, 1 timed cutdown unit powered by a 2CR5 battery, 12 AA lithium batteries powering the camera, GPS and Radio.

Ahhh...imagining that irresistible "new car" smell?
Check outnew cars at Yahoo! Autos.

3084. Re: [GPSL] Introducing New York Near Space Research (NYNSR)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-30 06:28:41 UTC
From: Mike Manes
Topic: 3081 Message: 3084

Hi Javier,

Welcome to the Balloonacy World! We look forward to hearing of
some outstanding success with your first flight.

Towards that end, I'd recommend that you join the balloon_sked
yahoo group. That will get your flight announcements out on
Ralph Wallio's quite thorough announcement list.

If you need some tips or help getting your first payload up and
back home, here's the place to ask. You're also welcome to browse
the EOSS site, www.eoss.org, for stuff gleaned over 16 years and
117 flights and recoveries.

73 de Mike W5VSI
Prez EOSS

javier_ndrsn wrote:
> The Irvington High School Science Club is announcing the creation of a
> New High Altitude Balloon group. The group will be called
> "New York Near Space Research" or NYNSR for short and will be
> conducting flights by late Spring next year in the Lower Hudson
> Valley. We are hoping to have a website purchased by the end of this
> weekend and have some more information available. We have started a
> public Google group under the name New York Near Space Research
> already and you may join if you like.
>
> 73 to all,
> Javier Anderson, KC2MFC
>
>
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3085. Re: [GPSL] GPSL 2007 flight coordination

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-30 15:17:37 UTC
From: PAUL VERHAGE
Topic: 3074 Message: 3085

Here's mine.

NearSys
nearsys.org
KD4STH-11
(208) 631-7162
Two radios, both at 144.390
Probably a 1200 gram
1-1/2 tanks
Around 10 pounds
between 85-90,000 feet
No special needs
Camera, camcorder, glider, Idaho cluster bomb, Peeps, and BalloonSats.

Thanks,
Paul

>>> "Roger Hammond" <rahammond@...> 4/27/2007 6:52 am >>>
It's time to start thinking about your flight train for GPSL 2007. If
you
or your group intends to fly this year, please provide me with the
following:

(Note: Even if you're not sure of all the parameters at this point but
do
intend to fly, please let me know so that I can assign time slots and
anticipate the gas requirements.)

1. Name of your group
2. Website for your group
3. Callsign(s) of your payload
4. A cell phone number that will be carried on the chase (for
post-recovery
coordination)
5. Number of transmitters and their band (specific frequencies only if
you're
rock-bound or don't wish to be time-slotted with others on the
144.34/39
freq).
6. Size of balloon
7. Approx number of helium tanks required (K or T)
8. Total flight weight
9. Expected ascent/descent rate
10. Projected burst altitude
11. Special requirements/requests for the GPSL coordinator
12. Short description of your payload including cameras, transmission

modes,
experiments, etc.

73,

Roger KCØMWM
rahammond@...
www.cnnsp.org

Yahoo! Groups Links

3086. Re: Introducing New York Near Space Research (NYNSR)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-30 15:24:40 UTC
From: shermane2001
Topic: 3081 Message: 3086

Hi, Javier. This is from the MECSAT balloon group in New York.
Although we're based in Brooklyn, our flights are at our base in
Paradox, NY. Since last year, we've been flying both BalloonSATS and
ozonesondes. We also have high school students from both NY and
Vermont involved in our flights now and have an upcoming flight in
Paradox (May 7) with our students and high school students from
southern Vermont. We're flying all summer and you're welcome to join us.

--- In GPSL@yahoogroups.com, "javier_ndrsn" <javanderson@...> wrote:
>
> The Irvington High School Science Club is announcing the creation of a
> New High Altitude Balloon group. The group will be called
> "New York Near Space Research" or NYNSR for short and will be
> conducting flights by late Spring next year in the Lower Hudson
> Valley. We are hoping to have a website purchased by the end of this
> weekend and have some more information available. We have started a
> public Google group under the name New York Near Space Research
> already and you may join if you like.
>
> 73 to all,
> Javier Anderson, KC2MFC
>

3087. GPSL Press Release request

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-30 16:45:27 UTC
From: Roger Hammond
Topic: 3087 Message: 3087

Does anyone have a nicely written press release from a previous GPSL
that I could edit and use for this year's event?

73 de Roger KC0MWM
rahammond@charter.net
www.cnnsp.org

3088. Boulder Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2007-04-30 20:49:33 UTC
From: PAUL VERHAGE
Topic: 3088 Message: 3088

Mike, Bill, and I attended the LCANS conference last week.

One thing I got from LCANS is the concern over work force development. We're not graduating enough engineers and near space is looked at as one way to develop the work force. A lot of our experiments are looked at as toy science. So we need to sell our amateur programs as a means to get students interested in math, science, and engineering rather than doing real science.

The university space grants now have to account for every dollar they spend and how many people that money reaches. We'll get bigger exposure if we can may our launches web based or get a lot of students involved. If our launches can reach a lot of students, we can apply for space grant funding. If they don't reach a lot, we'll have to look for funding from other sources. I'd like to look at grants for small amounts of money, places like Target or Walmart that have helped schools before.

There's a pent up demand for launches that are tens to hundreds of pounds. NASA's balloon office (CSBF) is filling the need for the big heavy stuff (observatory class missions) but nothing is really doing the smaller stuff. One solution is for multiple experiments to share a balloon lift. But that's not something we can help with. Where I think ARHAB could help out with testing individuals sensors or circuits, rather than entire payloads. That may be of interest to researchers if we let them know we can launch a test for them. It's not that we'd be certifying an experiment, rather that we'd be showing that the sensor is worth pursuing in bigger payloads because it produced something useful on one of our flights.

So anyhow, those are my thoughts.

Paul

3089. [Fwd: [Ballooning] UTARC UX-12 onboard video]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-01 04:51:57 UTC
From: Mike Manes
Topic: 3089 Message: 3089

-------- Original Message --------
Subject: [Ballooning] UTARC UX-12 onboard video
Date: Mon, 30 Apr 2007 06:35:19 -0400
From: Greg Williams <k4hsm@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

http://www.youtube.com/watch?v=bQ5QzfLDnOc

Video from UTARC (Univ. of Tenn. Amateur Radio Club) of UX-12, from
April 21, 2007.

Some of the highlights of the flight, prelaunch, launch, cutdown, and
recovery.

Enjoy.

--
Greg Williams
K4HSM
k4hsm@...

http://www.twiar.org
http://www.etskywarn.net

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3090. Looking for contacts in KS, west TX, OK, MO or IL for Arbonet balloon record

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-05 01:48:01 UTC
From: wb8elk@aol.com
Topic: 3090 Message: 3090

I'll be attempting a EBE record 2 way contact through the crossband repeater on the Arbonet balloon Saturday morning from NE Texas....I'm just south of Huntsville, AL at grid square EM64oj on Wilson Mountain with a very good shot at it from 420 miles out. The potential exists to get close to a contact of 800 miles distance...any takers out in middle and western TX, OK, KS, MO or IL? Wichita, Salina, Kansas City are all in range. There may also be a station 80 miles closer from western AL (KU4WW) on the air as well who will most likely be in range a lot longer than I will be.

445.80 uplink....147.56 down

K5FRC-11 on APRS

7.260 HF net

details at _http://www.arhab.org_ (http://www.arhab.org)

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3091. Re: [GPSL] Looking for contacts in KS, west TX, OK, MO or IL for Arbonet balloon record

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-05 02:01:41 UTC
From: Zack Clobes
Topic: 3090 Message: 3091

What time? I don't have any beams in the air, but can give it a shot
from Hutchinson, KS.

Zack Clobes, W0ZC

wb8elk@... wrote:
>
> I'll be attempting a EBE record 2 way contact through the crossband
> repeater on the Arbonet balloon Saturday morning from NE Texas....I'm
> just south of Huntsville, AL at grid square EM64oj on Wilson Mountain
> with a very good shot at it from 420 miles out. The potential
> exists to get close to a contact of 800 miles distance...any takers
> out in middle and western TX, OK, KS, MO or IL? Wichita, Salina,
> Kansas City are all in range. There may also be a station 80 miles
> closer from western AL (KU4WW) on the air as well who will most
> likely be in range a lot longer than I will be.
>
> 445.80 uplink....147.56 down
>
> K5FRC-11 on APRS
>
> 7.260 HF net
>
> details at http://www.arhab.org <http://www.arhab.org>
>
> - Bill WB8ELK
>
>
>
>
>
>
> ---
> See what's free at AOL.com
> <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

3092. Re: [GPSL] Looking for contacts in KS, west TX, OK, MO or IL for Arbonet ball...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-05 02:05:38 UTC
From: wb8elk@aol.com
Topic: 3092 Message: 3092

Hi Zack....Arbonet launches at 9:30 am CDT

********** See what's free at http://www.aol.com.

3093. 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-05 14:44:26 UTC
From: Roger Hammond
Topic: 3093 Message: 3093
Attachments: 1 described; binary payloads are missing from this source WARC

I have secured pricing on the helium for this year's GPSL. Attached is the order form in .PDF
If paying by mail, please include a copy of this form. If you are using PayPal, please include a comment stating the name of the individual and/or group.

Zack has recently updated the website www.superlaunch.org with the latest information I've provided him.

Please place your orders as soon as possible so I can give the supplier ample time to meet delivery.

73 de Roger KCØMWM
rahammond@...
www.cnnsp.org

3094. GPSL flight coordination for NSTAR

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-05 17:45:36 UTC
From: Mark Conner
Topic: 3094 Message: 3094

1. Name of your group
Nebraska Stratospheric Amateur Radio (NSTAR)

2. Website for your group
www.nstar.org

3. Callsign(s) of your payload
N9XTN-11 (pri) N9XTN-12 (alt)

4. A cell phone number that will be carried on the chase (for post-recovery coordination)
402-201-4422

5. Number of transmitters and their band (specific frequencies only if you're
rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq).
2 APRS trackers (2m VFO)
SSTV (2m, prefer 147.585 MHz) or simplex repeater (70cm, prefer 446.300)

6. Size of balloon
1200g or 1500g (possibly 3000g if conditions are excellent)

7. Approx number of helium tanks required (K or T)
1 T if 1200g or 1500g, 1 1/3 T if 3000g

8. Total flight weight
Approx 10 lbs

9. Expected ascent/descent rate
1000/1000 ft/min

10. Projected burst altitude
90kft if 1200/1500, 107kft if 3000g

11. Special requirements/requests for the GPSL coordinator
none at this time

12. Short description of your payload including cameras, transmission modes, experiments, etc.
Digital camera
SSTV, if used, will be Robot 36

3095. Re: DTMF servo control

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-06 02:44:27 UTC
From: Mike Manes
Topic: 3095 Message: 3095

Hi Don,

This is how we did it on one of our older ATV modules. But the round tuit needed to put it the new one has been evasive.

Suggest using a Basic Stamp I or II with a DTMF decoder driven by a 2m rcvr (or 70cm if you're not running 70cm ATV). The BSC's have PWM output commands, and most PWM-style R/C servos will lock to a new commanded position within about 10 cycles of a new PWM command; no need to drive the servo continuously. You could pack that code into the same BSC chip that you're using as an ATV audio channel IDer, and even mix the in the command receiver audio to make for a cross band repeater of sorts.

73 de Mike W5VSI

Arledge, Don wrote:
> Mike,
>
> Hope all is well with you and yours. I writing too see what you might
> know about controlling a servo with dtmf. Very soon (as in the next two
> or three launches) I will add on board video to my flight package and
> controlling the pan/tilt module via a joy stick remote control seems
> complicated and the delay would be pretty high I would guess. So I want
> to use dtmf that way after launch I could send a dtmf sequence to deploy
> the camera then another to pan 180 degrees left to right, ect. I have no
> experience with this and I though you might be able to advise me as to
> whether this is possible or perhaps there's a better way.
>
> With highest regards,
>
> Don
>
> *****
>
> The information transmitted is intended only for the person or entity to
> which it is addressed and may contain confidential, proprietary, and/or
> privileged material. Any review, retransmission, dissemination or other
> use of, or taking of any action in reliance upon this information by
> persons or entities other than the intended recipient is prohibited. If
> you received this in error, please contact the sender and delete the
> material from all computers. GA622
>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

3096. Re: [Ballooning] multipath fading

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-06 03:05:44 UTC
From: Mike Manes
Topic: 3096 Message: 3096

Classic post-burst chaos. I think it's probably driven by parachute instablity, where the high-pressure bubble under the canopy tries to sneak out from under the skirt - and it does that asymmetrically, thus producing thrust that pushes the 'chute farther off vertical, thus causing more dumping and thrust, until the canopy is largely deflated. Then it moves back upwards to a near-vertical position, before starting a new cycle. A generous vent at the apex is very effective in attenuating PBC, but it's also important to get rid of the balloon shards hanging off the apex ASAP as well, since they almost guarantee an asymmetrical parachute. I did a pitch on this at last year's GPSL

I've not yet abandoned the question of localized high-Mach drag rise as a contributing factor. At the SWRI LACANS conference, Tim Lachenmeir of Near Space Corp (formerly GSSL) stated that he's observed trans-sonic airspeeds during pullout of glider dropped from 100K'.

73 de Mike W5VSI, EOSS

mgray@... wrote:
> In the past we have flown a video camera in one of the payloads. The
> following link shows some captures during the burst/descent phase. From
> the video you can see the payload doing end over end tumbles. The camera
> was setup to point up towards the balloon and cross band repeater and its
> antenna.
>
> http://www.kd7lmo.net/ansr/ansr_26_video.html
>
>
>
> On Sat, 5 May 2007, Bob N5PAX wrote:
>
>> We were using 2- Icom 208H, each with a Tram 1180 dual band antenna. One radio for transmit and one for receive. Fading? Huh, that's what that was? I don't remember that from two other previous flights. What I do remember that was distinct on this flight is the burst. Our reception was immediately affected. I turned to Steve and said "we just had burst". This was confirmed shortly by the ANSR team. Interesting.
>> 73 to all,
>> Bob N5PAX
>>
>> Dale Harris <n5qo@...> wrote:
>> I have a hard time imaginging that at nearly 100,000
>> feet, the air is thick enough to cause this much
>> swinging. After all, the balloon, payloads and
>> antennas are moving with the same airmass unless there
>> is an area of considerable shear. A few degrees of
>> movement shouldn't cause this much phase change.

>> These fades are deeeep on the order of several
>> s-units. Also, it occurs throughout the flight, not
>> just at burst. When I asked KD7LMO about it, he says
>> the signals are solid. Did any other distant stations
>> notice this? Chris, Bob, Steve? What type of
>> antennas were you using?
>>
>> I would imagine that if the swinging antenna is
>> causing it, it would be heard locally also. How were
>> the local stations hearing it?
>>
>> Would the information from the GPS indicate the amount
>> of swinging?
>>
>> Lots of questions!
>>
>> CUL and 73,
>> Dale
>>
>> _____
>> Do You Yahoo!?
>> Tired of spam? Yahoo! Mail has the best spam protection around
>> http://mail.yahoo.com
>>
>>
>>
>>
>>
>> ---
>> Be a PS3 game guru.
>> Get your game face on with the latest PS3 news and previews at Yahoo! Games.
>>
>> ---
>> Ahhh...imagining that irresistible "new car" smell?
>> Check outnew cars at Yahoo! Autos.
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:

>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
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>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3097. share flight expenses X 2

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-06 16:27:33 UTC
From: Roger Hammond
Topic: 3097 Message: 3097

Are there any groups attending GPSL 2007 that have the extra capacity for a 3 - 5 pound payload?
We have a new group in Nebraska, BUNS headed up by Brek Brixius, that will be flying for the first time with an unproven APRS tracker that is willing to share expenses with anyone that has the capacity for a 3 - 5 lb payload.
Also, Zack WØZC from Traveler is trying to squeeze GPSL into his busy schedule and may have a new payload weighing in around 3 - 4 lb that he'd like to try out and also "hitch a ride" with someone.

If someone has the payload space available, let us know.

Rog KCØMWM

3098. Re: [GPSL] share flight expenses X 2

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-07 01:35:58 UTC
From: Mike Manes
Topic: 3097 Message: 3098

Hi Rog,

EOSS is up to 9.5 lb of payload right now - only 2.5 lb spare under the
12 lb Part 101 exempt limit. We can share unused Helium if another
group needs it for a heavier load, and we don't need it for our spare.

73 de Mike W5VSI

Roger Hammond wrote:
> Are there any groups attending GPSL 2007 that have the extra capacity
> for a 3 - 5 pound payload?
> We have a new group in Nebraska, BUNS headed up by Brek Brixius, that
> will be flying for the first time with an unproven APRS tracker that is
> willing to share expenses with anyone that has the capacity for a 3 - 5
> lb payload. Also, Zack WØZC from Traveler is trying to squeeze GPSL into
> his busy schedule and may have a new payload weighing in around 3 - 4 lb
> that he'd like to try out and also "hitch a ride" with someone.
>
> If someone has the payload space available, let us know.
>
> Rog KCØMWM
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3099. Taylor BSAT 45

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-08 16:27:31 UTC
From: Jeff Dailey
Topic: 3099 Message: 3099

Taylor will be flying 5-9-2007

Time: 5:30PM to 6:30PM

Callsign: KB9ZNZ-11

Freq: 144.39

Thanks

Jeff Dailey

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3100. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-09 13:37:33 UTC
From: PAUL VERHAGE
Topic: 3093 Message: 3100

I could use a half tank of helium. Can I split a tank with someone?

Paul

>>> "Roger Hammond" <rahammond@...> 5/5/2007 8:44 am >>>
I have secured pricing on the helium for this year's GPSL. Attached is
the
order form in .PDF
If paying by mail, please include a copy of this form. If you are
using
PayPal, please include a comment stating the name of the individual
and/or
group.

Zack has recently updated the website www.superlaunch.org with the
latest
information I've provided him.

Please place your orders as soon as possible so I can give the
supplier
ample time to meet delivery.

73 de Roger KCØMWM
rahammond@...
www.cnnsp.org

3101. Re: FAA issues?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-09 21:45:06 UTC
From: Mike Manes
Topic: 3101 Message: 3101

Hi Don,

The FAA proposed some new regs re Unmanned Air Devices in civil aispace as an NPRM - published Feb 6 in the Fed Register as Docket FAA-226-25714. You can see the NPRM and comments submitted by ALPA and EOSS by browsing under dms.dot.gov and looking for that docket number. Unfortunately, the comment period expired a few days ago, so all we can do keep fingers crossed.

EOSS had 2 issues with the NPRM:

1. Its scope was broad enough to encompass all Part 101 devices. From some follow-up emails, it's kinda clear that the folks at UAPO who published the NPRM that they were not aware of unmanned balloons, how they operate or what they do. It seems that all they were thinking of was DoD "Predator" and "Global Hawk" birds, although they did acknowledge development of smaller unmanned aircraft - all powered and ground-launched, however.

2. It also placed unreasonable restrictions on emerging development of steerable balloon descent devices, like sport parachutes, etc.

The EOSS comments requested an explicit exemption of 14 CFR 101 devices and reasonable accomadation of slow, light unpowered steerable unmanned balloon payload descent devices.

Thanks for your interest, and I wish I'd got wind of this NPRM earlier so more ARHAB folks could have commented.

73 de Mike W5VSI

Arledge, Don wrote:
> Mike,
>
> I heard from Mike Herod KJ0R that there is an issue with the FAA that
> could jeopardize high altitude balloon flights in the future? Could you
> tell me what is going on with the FAA and what I can do to help.
>
> With highest regards,
>
> Don KI4QVO
>
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3102. [Fwd: Location of LCANS talks online]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-09 23:30:33 UTC
From: Mike Manes
Topic: 3102 Message: 3102

From the Southwest Research Inst Low Cost Access to Near Space
workshop in Boulder CO on 4/26-28/07, FYI.

73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: Location of LCANS talks online
Date: Wed, 9 May 2007 15:15:31 -0600 (MDT)
From: Eliot Young <efy@...>
To: lcans@...

Dear LCANS Workshop participants,

Several of you have asked me where to find the presentations from our
workshop on Low-Cost Access to Near Space. The program of speakers is
online:

<http://www.boulder.swri.edu/LCANS/LCANS_SpeakerList.html>

and nearly every talk is linked to its electronic incarnation.

Regards,
-Eliot

==
Eliot Young, Sc.D. efy@...
Southwest Research Institute www.boulder.swri.edu/~efy/
1050 Walnut St 303-546-6807
Boulder, CO 80302 303-546-9687 FAX
==

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3103. Re: [EOSS] Re: FAA issues?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-09 22:37:38 UTC
From: Joe
Topic: 3101 Message: 3103

Mike,,

I tried to find this and no place could the file be found,, could you
stuff in in the yahoo group or on the eoss website for the rest of us?

Joe
Near Space Sciences

Mike Manes wrote:

>Hi Don,
>
>The FAA proposed some new regs re Unmanned Air Devices in civil aispace
>as an NPRM - published Feb 6 in the Fed Register as Docket FAA-226-25714.
>You can see the NPRM and comments submitted by ALPA and EOSS by browsing
>under dms.dot.gov and looking for that docket number. Unfortunately, the
>comment period expired a few days ago, so all we can do keep fingers
>crossed.
>
>EOSS had 2 issues with the NPRM:
>
>1. Its scope was broad enough to encompass all Part 101 devices. From
>some follow-up emails, it's kinda clear that the folks at UAPO who
>published the NPRM that they were not aware of unmanned balloons, how they
>operate or what they do. It seems that all they were thinking of was
>DoD "Predator" and "Global Hawk" birds, although they did acknowledge
>development of smaller unmanned aircraft - all powered and ground-
>launched, however.
>
>2. It also placed unreasonable restrictions on emerging development of
>steerable balloon descent devices, like sport parachutes, etc.
>
>The EOSS comments requested an explicit exemption of 14 CFR 101 devices
>and reasonable accomadation of slow, light unpowered steerable unmanned
>balloon payload descent devices.
>
>Thanks for your interest, and I wish I'd got wind of this NPRM earlier
>so more ARHAB folks could have commented.
>
>73 de Mike W5VSI
>
>Arledge, Don wrote:
>
>
>>Mike,
>>

>>I heard from Mike Herod KJ0R that there is an issue with the FAA that
>>could jeopardize high altitude balloon flights in the future? Could you
>>tell me what is going on with the FAA and what I can do to help.
>>
>>With highest regards,
>>
>>Don KI4QVO
>>
>>
>>

3104. Re: [GPSL] Re: [EOSS] Re: FAA issues?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-09 23:46:38 UTC
From: Mike Manes
Topic: 3101 Message: 3104

Hi Joe,

Try this URL:

http://dms.dot.gov/search/searchFormSimple.cfm

Then enter 25714 in the docket number window.

Too much filesize to attach to an email.

73 de Mike W5VSI

Joe wrote:
> Mike,,
>
> I tried to find this and no place could the file be found,, could you
> stuff in in the yahoo group or on the eoss website for the rest of us?
>
> Joe
> Near Space Sciences
>
> Mike Manes wrote:
>
>> Hi Don,
>>
>> The FAA proposed some new regs re Unmanned Air Devices in civil aispace
>> as an NPRM - published Feb 6 in the Fed Register as Docket FAA-226-25714.
>> You can see the NPRM and comments submitted by ALPA and EOSS by browsing
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>> comment period expired a few days ago, so all we can do keep fingers
>> crossed.
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>> EOSS had 2 issues with the NPRM:
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>> some follow-up emails, it's kinda clear that the folks at UAPO who
>> published the NPRM that they were not aware of unmanned balloons, how they
>> operate or what they do. It seems that all they were thinking of was
>> DoD "Predator" and "Global Hawk" birds, although they did acknowledge
>> development of smaller unmanned aircraft - all powered and ground-
>> launched, however.
>>
>> 2. It also placed unreasonable restrictions on emerging development of
>> steerable balloon descent devices, like sport parachutes, etc.
>>
>> The EOSS comments requested an explicit exemption of 14 CFR 101 devices

>> and reasonable accomadation of slow, light unpowered steerable unmanned
>> balloon payload descent devices.
>>
>> Thanks for your interest, and I wish I'd got wind of this NPRM earlier
>> so more ARHAB folks could have commented.
>>
>> 73 de Mike W5VSI
>>
>> Arledge, Don wrote:
>>
>>
>>> Mike,
>>>
>>> I heard from Mike Herod KJ0R that there is an issue with the FAA that
>>> could jeopardize high altitude balloon flights in the future? Could you
>>> tell me what is going on with the FAA and what I can do to help.
>>>
>>> With highest regards,
>>>
>>> Don KI4QVO
>>>
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>
> Yahoo! Groups Links
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>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3105. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-10 13:40:13 UTC
From: PAUL VERHAGE
Topic: 3093 Message: 3105

Can I split a tank of helium with someone? I only need to order 1-1/2
tanks.

Thanks,
Paul

>>> "Roger Hammond" <rahammond@...> 5/5/2007 8:44:26 am >>>
I have secured pricing on the helium for this year's GPSL. Attached is
the
order form in .PDF
If paying by mail, please include a copy of this form. If you are
using
PayPal, please include a comment stating the name of the individual
and/or
group.

Zack has recently updated the website www.superlaunch.org with the
latest
information I've provided him.

Please place your orders as soon as possible so I can give the
supplier
ample time to meet delivery.

73 de Roger KCØMWM
rahammond@...
www.cnnsp.org

3106. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-10 13:47:06 UTC
From: nss@mwt.net
Topic: 3093 Message: 3106

So,

When are we going to know what the final decision, and or new rules are to be and go into effect when?

Joe

3107. Spring campaign started in Fort Sumner

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-10 20:02:59 UTC
From: Luis Eduardo Pacheco
Topic: 3107 Message: 3107
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3108. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-09 23:57:16 UTC
From: Mike Manes
Topic: 3093 Message: 3108

How many cuft He do you need, Paul? Half a K bottle (110 cuft) won't go far.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I could use a half tank of helium. Can I split a tank with someone?
>
> Paul
>
>>>> "Roger Hammond" <rahammond@...> 5/5/2007 8:44 am >>>
> I have secured pricing on the helium for this year's GPSL. Attached is
> the
> order form in .PDF
> If paying by mail, please include a copy of this form. If you are
> using
> PayPal, please include a comment stating the name of the individual
> and/or
> group.
>
> Zack has recently updated the website www.superlaunch.org with the
> latest
> information I've provided him.
>
> Please place your orders as soon as possible so I can give the
> supplier
> ample time to meet delivery.
>
> 73 de Roger KCØMWM
> rahammond@...
> www.cnnsp.org
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>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3109. FAA NPRM re UAS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-11 00:45:54 UTC
From: Mike Manes
Topic: 3093 Message: 3109

Hi Joe,

I've not heard about when and how these new regs will be published.

The FCC's NPRMs typically go into effect immediately after the 90-day comment period ends. But those dox are written a lot more formally than the the one on UAS. So I don't know for sure. However, our experience and that of Space Data Corp and NSC is that the FAA has been treating steerable unmanned balloon payload descent devices as UAVs, so unless the EOSS comments get favorable consideration, the question is moot for now.

Keep your fingers crossed.

73 de Mike W5VSI, EOSS

nss@... wrote:
> So,
>
> When are we going to know what the final decision, and or new rules are
> to be and go into effect when?
>
> Joe
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3110. Re: FW: high altitude balloon payload science

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-11 04:38:21 UTC
From: Mike Manes
Topic: 3110 Message: 3110

Hi Rob,

Apologies for the eoss.org email not making it thru the system. My ISP has taken a passionate dislike of that URL, despite my efforts to "white list" its traffic. BTW, it wouldn't have made it to me anyway, since my username on eoss.org is w5vsi, not v5vsi.

But rest assured that my primary address works fine:

manes@...

Now on to your question:

A scientific payload that light should have no problem hitching a ride on any number of EOSS's "heavies" - however, since we don't have an FAA-qualified strobe light per 14 CFR 101, we don't fly at night. And your payload should be prepared to withstand some extremely cold ambient temperatures at night, absent the sun's IR flux.

Nor should it present a problem for one of our peer balloon groups who operate much closer to Dartmouth. So I've taken the liberty of cc'ing a couple of reflectors that many of them receive.

Few fly at night, but there are a few who are working on long-duration balloons, i.e., overnight flights. The downside is that those overnight flights also travel very far downwind, especially in the winter. During the spring and fall polar cyclone "turnaround", however, it's possible to attain a near-stationary position in the stratosphere. Those are tight windows and are difficult to predict with confidence, however.

Now, if you are willing to kiss your payload goodbye, then it may be possible to telemeter your photometry data in real time during the flight. I assume that your data bandwidth is no more than a few 10's of bps. This is also not a great challenge, since most balloon groups also telemeter their GPS data in flight.

I just read your attached paper on a station-keeping high-altitude airship, and your acknowledgment of SWRI's Bill Perry's collaborative work. It occurred to me that you would have enjoyed attending the 26-28 April 07 SWRI Low Cost Access to Near Space workshop in Boulder. There's an online "proceedings" from that conference at:

http://www.boulder.swri.edu/LCANS/LCANS_SpeakerList.html

Jerry Knoblach's presentation on Space Data's developments may be of particular interest. Jerry presents a persuasive economic argument for the use of a series of low-cost latex balloons in lieu of a station-keeping airship. Space Data has perfected valved latex balloons to keep near

space cell site coverage over a target area for several days. He may even entertain giving you a lift, since Space Data is also doing some DoD work.

Let's discuss your needs in more detail, perhaps even in person during our flight for Colorado Space Grant, HQ'ed at CU, set for 16 June out of our launch site in Deer Trail CO, about 50 mi E of Denver on I-70. Does that fit your travel plans?

Best regards,
Mike Manes W5VSI
Prez EOSS

Rick von Glahn wrote:
>
>
>
> 73 -- Rick, NØKKZ
>
>
> -----Original Message-----
> From: Robert Fesen [mailto:fesen@...]
> Sent: Thursday, May 10, 2007 12:33 PM
> To: webmaster@...
> Cc: fesen@...
> Subject: high altitude balloon payload science
>
> Dear Mr. Rick von Glahn:
>
> I sent the email attached below last week to Mr Manes but have not received a
> reply. Maybe I sent it to the wrong address.
>
> In any case, could you please pass this along to him or whoever is the right
> person.
>
> Thanks.
>
> Sincerely,
>
> -Rob Fesen (fesen@...)
> Dartmouth College
>
> ------------ Begin Forwarded Message ------------
>
> Date: Wed, 2 May 2007 17:38:00 -0400 (EDT)
> From: Robert Fesen <fesen>
> Subject: high altitude balloon payload science
> To: v5vsi@...
> Cc: fesen@...
> MIME-Version: 1.0
> X-Keywords:
>

> Dear Mr. Mike Manes:
>
> I'm a professor in the Dept. of Physics and Astronomy at Dartmouth College
> (Hanover, NH). I and colleagues at Harvard are exploring using high-altitude
> platforms to make astronomical observations. (I've an attached pdf file with a
> paper I wrote last year on this general topic).
>
> One of the unknowns that we would like to find out about concerns just how
> dark the sky is at altitudes between 70,000 ft and 85,000 ft - both at night
> and during the day.
> We have a small photometry system (1-1.5 lbs) are exploring the possibility of
> a flight on a high-altitude weather balloon system in order obtain
> quantitative measurements.
>
> Knowing that groups such as the EOSS organization have experience launching
> and recovering payloads in this weight class up to this altitudes, we thought
> we should contact you to see what are the possibilities of a flight or two
> through EOSS.
>
> What is needed to be involved in a flight? Cost-wise, equipment-wise (what
> sort of weight, power restrictions are there), and how far-out in time would a
> new flight be? Any information or guidance you could give would be greatly
> appreciated.
>
> Sincerely,
>
> -Rob Fesen
>
>
> PS: I worked in Boulder at CU for many years and travel back there
> fairly often and, in fact, I plan to be out there again for about a week
> in early June.
>
>
>
> ------------- End Forwarded Message -------------
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3111. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-11 13:20:54 UTC
From: PAUL VERHAGE
Topic: 3093 Message: 3111

I'll need a tank and a half for my balloon. So I'm ordering one tank and hoping to split the cost of a second tank.

Paul

>>> Mike Manes <manes@attglobal.net> 5/9/2007 5:57 pm >>>
How many cuft He do you need, Paul? Half a K bottle (110 cuft) won't go far

3112. Re: EOSS-120 / GPSL '07 Draqft payload plan

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-11 05:32:00 UTC
From: Mike Manes
Topic: 3112 Message: 3112

Hi Brek,

"Things should be made as light as possible, but not more so"

So if your camera weighs just a few oz, then adding some LiSO2 batts for cold temp operation and a foamcore enclosure with some added foam insulation inside should keep you under 1 lb - and we can manage that easy.

All we ask is that you use the thru-tube line attach method so your enclosure doesn't have to carry the payload line tension. Make sure the tube ends are well de-burred!

You could also tie off to a couple of loops on our line, but that doesn't keep your payload axis aligned, and it's at greater risk of getting wiped off during parachute drag.

You could also test your cutdown by putting it on a short section of lift line that's shunted by another main thru line that's not cut.

And don't worry about weighing us down. The sooner the balloon bursts, the sooner we get to lunch!

Watch out for those "bargain" outdated balloons. It's no bargain if it blows after you've dumped $50 of He into it! It's happened.

And don't waste $$$ on a regulator. Nothing but trouble, since they tend to freeze up. Just get a 10 ft length of 1/2" reinforced rubber hose and use the tank valve to control the fill flow. Use a 8" length of PVC pipe for your 1200 gm fill tube, with a cemented PVC reducer to 1/2" NPT to mate the nipple on your fill hose. Use a hose clamp or 2 to hold the balloon neck tight on the filler tube. Some nylon line tied just above the PVC reducer provides a place to tie off your tare weight.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> Hi Mike:
>
> Thanks for the offer. I don't want to weigh EOSS down. Roger and I had
> talked about my sharing a ride with someone to increase my odds of
> having a successful outcome. It makes sense but, I don't want to be a
> burden to anyone either.
>
> My program really has only two objectives. 1. Is to take and return a
> picture (or more) from up there. 2. Is to test my cutdown.
>
> My cameras are only 1.3 megapixel but they are very light. One I

> assembled recently is just over 2 ounces with batteries (but no
> insulation). If EOSS were willing to take one of my cameras along, then
> I would have a much better chance of achieving #1. Even if I lost my
> balloon then, it wouldn't be a total loss for me. Let me know if you
> are interested in just carrying a camera Mike. Give me a weight target
> and some specs about how it would attach and I'll see if I can get it
> packaged.
>
> Flying with someone else doesn't prevent me from testing the cutdown by
> dropping something or just cutting a string but, I was looking forward
> to flying my own balloon and doing an actual cut away.
>
> I am not quite prepared to fly my own balloon but I am moving in that
> direction as fast as possible. What I am lacking is filler equipment
> and experience. I have ordered a pressure regulator (the one listed in
> the footnotes in Paul's book). I still need hose and fittings.
>
> I have one old 1200 gram balloon and will probably order another one
> (old surplus) as backup. I have ordered and paid for a T tank of
> helium. I have a 60" Spherachute TM (I am planning on being pretty
> light). My module and tracking system are working as tested here on the
> ground. I need to tidy up the package and get it ready to fly. I am
> planning on going with the wooden separator ring as described in Paul's
> book. I ordered and received today a Microhunt CW beacon that I will
> incorporate per Roger's suggestion. I also ordered a kit for WB2HOL's
> tape measure beam kit. My wife (KC0YOF) is showing some interest in
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> attending GPSL this year. She is smarter than me but doesn't have
> experience flying balloons either.
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> several tests here on the ground. I am working on a cleaner smaller
> version. What I am doing is integrating a 555 and a couple of 4017's to
> provide the time delay to a redrawn version of the FTU described in
> Paul's book. I also have a couple of stand alone FTU's assembled from
> the plans in Paul's book. One of those has been successfully test fired
> with a manually applied signal but I have not prepared timers for those
> units.
>
> I welcome any comments or suggestions Mike, Roger, anybody.
> Brek - KC0YOE
>
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> */Mike Manes <manes@...>/* wrote:
>
> Hi Guys,
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> At last night's EOSS meeting, we learned that Chris KB0YRZ, our mobile
> ATV downlink, can't make GPSL this year. So we decided to replace the
> ATV on 426.25 and the ZigBee link with the crossband repeater. Seems

> the last time we flew this payload was on EOSS-92 during GPSL '05.
> About time it flew again! And we'll also fly the mini-DVR.
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> The repeater is rockbound on 445.975 up / 147.555 down, 100 duty cycle.
> APRS beacons are overlaid on the downlink.
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> Our new payload weight is now down to 8.0 lb, so we have 4.0 lb to
> spare under the Part 101 exempt limit. If Brek wants to fly his APRS
> on 144.39, and it's under 4 lb, then we can haul it up. But we sure
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3113. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-12 00:29:16 UTC
From: Mike Manes
Topic: 3093 Message: 3113

Hi Paul,

Roger says that his suppliers will take untapped bottles back for a
refund. So we ought to "pool" the attendees to drain as many bottles
as possible, leaving as many as possible untapped.

EOSS is ordering 2 T bottles, although we will need just 280 cuft if our
1200 gm fill goes uneventfully. You can have the remaining 20 cuft, gratis!!

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I'll need a tank and a half for my balloon. So I'm ordering one tank and hoping to split
the cost of a second tank.
>
> Paul
>
>>>> Mike Manes <manes@...> 5/9/2007 5:57 pm >>>
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> Yahoo! Groups Links
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3114. Re: [GPSL] Re: EOSS-120 / GPSL '07 Draqft payload plan

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-12 01:35:27 UTC
From: Brek Brixius
Topic: 3112 Message: 3114

Thanks Mike. I'll work on packaging a camera in some certafoam with a through tube. When I get that done I can mail it to you folks in advance so you can inspect it.

I already have a regulator and I made arrangements with a welding shop to fabricate the hose for it today. As for wasting money, I have and wish I hadn't but, I'm not sure how to avoid it. I guess it is the cost of education.

Asking questions helps. I sure feel like a dummy asking some of these things but, I have learned that I better ask. Thanks for the advice Mike and everybody.

In your note to Paul it looked to me like you expect 150 cu ft. per T -tank? I was thinking they were bigger than that. Maybe I need more gas. Also, I don't want to put up a light payload on a balloon that is underfilled and might not burst. Then if my cutdown fails, I'm stuck.

What I have read said that helium would lift approx. 1 oz per cubic foot at sea level. Is that what you figure?

Thanks
Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

"Things should be made as light as possible, but not more so"

So if your camera weighs just a few oz, then adding some LiSO2 batts for
cold temp operation and a foamcore enclosure with some added foam insulation
inside should keep you under 1 lb - and we can manage that easy.

All we ask is that you use the thru-tube line attach method so your
enclosure doesn't have to carry the payload line tension. Make sure
the tube ends are well de-burred!

You could also tie off to a couple of loops on our line, but that doesn't keep
your payload axis aligned, and it's at greater risk of getting wiped off
during parachute drag.

You could also test your cutdown by putting it on a short section of
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And don't worry about weighing us down. The sooner the balloon bursts,
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Watch out for those "bargain" outdated balloons. It's no bargain if it
blows after you've dumped $50 of He into it! It's happened.

And don't waste $$$ on a regulator. Nothing but trouble, since they tend to freeze up. Just get a 10 ft length of 1/2" reinforced rubber hose and use the tank valve to control the fill flow. Use a 8" length of PVC pipe for your 1200 gm fill tube, with a cemented PVC reducer to 1/2" NPT to mate the nipple on your fill hose. Use a hose clamp or 2 to hold the balloon neck tight on the filler tube. Some nylon line tied just above the PVC reducer provides a place to tie off your tare weight.

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---
Luggage? GPS? Comic books?
Check out fitting gifts for grads at Yahoo! Search.

Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge to see what's on, when.

3115. Re: [Ballooning] Spring campaign started in Fort Sumner

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-12 14:08:52 UTC
From: Joe
Topic: 3107 Message: 3115

Hi All,

I just started reading some of the info at the below web site. And, there is something strange,
It was talking about when they were testing a new film, and a "Click here" to see the balloons path. Which i did, at http://stratocat.com.ar/globos/mapas/map_568NT.gif
Thing is uhhhh,, the circle I have seen before,,,, But the perfect 90 deg left turn seems un real. I'm suspecting just bad tracking,, but at the same time find that hard to beleive that their tracking could be so much worse that any of us amateurs.

Joe & NSS
Luis Eduardo Pacheco wrote:

>
> Spring campaign started in Fort Sumner (5/10/2007)
>
>
> Fort Sumner Aerial ViewFort Sumner, (New Mexico).- After waiting
> several days -apparently waiting the right conditions- on May 9th was
> launched the first balloon of the spring campaign conducted every year
> by NASA's Columbia Scientific Balloon Facility from the Fort Sumner
> airport in New Mexico (Image)
>
> This first flight numbered as 568NT (the three fisrt digits being the
> flight number, the first letter signaling a launch made outside
> Palestine (TX) base and the last letter pointing to a technological
> flight instead of a scientific one) was launched near 15:00 utc with
> the aim of testing a new balloon made of a material called Stratofilm
> SF-450. According to the flight parameters, the 40.000.000 cu ft
> balloon performed well and after near 5 hours of leveled flight at
> 129.000 feet it was terminated, landing some miles southeast of Logan,
> New Mexico. To see a complete map of the balloon flight path click
> here <http://stratocat.com.ar/globos/mapas/map_568NT.gif>.
>
> More on this and other scientific balloon related news, at
> http://stratocat.com.ar/indexe.html
>
> ------------------------
> Luis Eduardo Pacheco
> StratoCat - Historical recopilation project on the use of
> stratospheric balloons
> in the scientific research, the military field and the aerospace activity
>

3116. Re: [GPSL] Re: [Ballooning] Spring campaign started in Fort Sumner

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-12 19:16:20 UTC
From: Mark Conner
Topic: 3107 Message: 3116

The track doesn't look too odd - I think the lazy circle on the left
was much tighter during the faster descent and ended up looking like a
90-degree turn. They may have had a few tracking glitches near I-40,
though.

See the relatively sharp turns during this flight:
http://www.nstar.org/KNSP/knsp98.html#98C

73 de Mark N9XTN

On 5/12/07, Joe <nss@...> wrote:
>
>
> Hi All,
>
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strange,
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un real. I'm suspecting just bad tracking,, but at the same time find that hard to beleive
that their tracking could be so much worse that any of us amateurs.
>
> Joe & NSS

3117. Re: [GPSL] Re: EOSS-120 / GPSL '07 Draqft payload plan

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-13 00:02:43 UTC
From: Mike Manes
Topic: 3112 Message: 3117

Hi Brek,

You don't have to send me your payload - not that tough to fix on the spot at GPSL if there are any issues.

And I know a T bottle holds about 300 cuft - I was referring to Paul's request for half a bottle.

Paul's book is a valuable resource, but it is limited to Paul's preferred techniques w/o ref to other group's ideas. EOSS has its own version of a handbook on the EOSS web site - it's pretty long in tooth and doesn't include a lot new stuff that we've developed since. But it does present an alternative view, particularly with respect to tracking and recovery methods.

We used to use a regulator - and it froze up on me at GPSL 2003 in KS humidity. So I just took it out of the line and used the tank valve - worked great, and we've used that method ever since. The regulator just protects against one hazard - a kinked fill hose that will burst under full tank pressure - so that's why I mentioned the use of a reinforced hose. Some folks use garden hose, and that's where a regulator is needed - but the economics don't pan out for the system.

73 de Mike W5VSI

Brek Brixius wrote:
> Thanks Mike. I'll work on packaging a camera in some certafoam with a
> through tube. When I get that done I can mail it to you folks in
> advance so you can inspect it.
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> I already have a regulator and I made arrangements with a welding shop
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> wish I hadn't but, I'm not sure how to avoid it. I guess it is the cost
> of education.
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> Asking questions helps. I sure feel like a dummy asking some of these
> things but, I have learned that I better ask. Thanks for the advice
> Mike and everybody.
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> In your note to Paul it looked to me like you expect 150 cu ft. per T
> -tank? I was thinking they were bigger than that. Maybe I need more
> gas. Also, I don't want to put up a light payload on a balloon that is
> underfilled and might not burst. Then if my cutdown fails, I'm stuck.
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> What I have read said that helium would lift approx. 1 oz per cubic foot
> at sea level. Is that what you figure?

>
> Thanks
> Brek - KC0YOE
>
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> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> ---
> Luggage? GPS? Comic books?
> Check out fitting gifts for grads
> <http://us.rd.yahoo.com/evt=48249/*http://search.yahoo.com/search?fr=oni_on_mail&p=gradu
ation+gifts&cs=bz>
> at Yahoo! Search.
>
> ---
> Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge
> <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222>to
> see what's on, when.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3118. Re: [Ballooning] Spring campaign started in Fort Sumner

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-13 00:19:44 UTC
From: Mike Manes
Topic: 3107 Message: 3118

Hi Joe,

I haven't visited that site, but at GPSL 03 or 04, there was a 90 deg wind shear at about 30K' that affected the trajectories of all 6 balloons that day. And one one of the "heavies" - an 8-hour ZP at 100K' in the summer - we tracked the balloon over a 200-mile long x 50-mile wide oval at altitude, and we cut it down when it returned to nearly the same point where it hit 100K'.

I'm sure that CBF gear is at least as good as the stuff we fly!

73 de Mike W5VSI, EOSS

Joe wrote:
> Hi All,
>
> I just started reading some of the info at the below web site. And,
> there is something strange,
> It was talking about when they were testing a new film, and a "Click
> here" to see the balloons path. Which i did, at
> http://stratocat.com.ar/globos/mapas/map_568NT.gif
> Thing is uhhhh,, the circle I have seen before,,,, But the perfect 90
> deg left turn seems un real. I'm suspecting just bad tracking,, but at
> the same time find that hard to beleive that their tracking could be so
> much worse that any of us amateurs.
>
> Joe & NSS
> Luis Eduardo Pacheco wrote:
>>
>>
>> Spring campaign started in Fort Sumner (5/10/2007)
>>
>>
>> Fort Sumner Aerial View*Fort Sumner, (New Mexico)*.- After waiting
>> several days -apparently waiting the right conditions- on May 9th was
>> launched the first balloon of the spring campaign conducted every year
>> by NASA's Columbia Scientific Balloon Facility from the Fort Sumner
>> airport in New Mexico (Image)
>>
>> This first flight numbered as *568NT* (/the three fisrt digits being
>> the flight number, the first letter signaling a launch made outside
>> Palestine (TX) base and the last letter pointing to a technological
>> flight instead of a scientific one/) was launched near 15:00 utc with
>> the aim of testing a new balloon made of a material called Stratofilm
>> SF-450. According to the flight parameters, the 40.000.000 cu ft
>> balloon performed well and after near 5 hours of leveled flight at

>> 129.000 feet it was terminated, landing some miles southeast of Logan,
>> New Mexico. To see a complete map of the balloon flight path click
>> here <http://stratocat.com.ar/globos/mapas/map_568NT.gif>.
>>
>> More on this and other scientific balloon related news, at
>> http://stratocat.com.ar/indexe.html
>>
>> ------------------------
>> Luis Eduardo Pacheco
>> StratoCat - Historical recopilation project on the use of
>> stratospheric balloons
>> in the scientific research, the military field and the aerospace activity
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3119. HEllo from the EOSRED in MAINE balloon group ideas to share.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-13 04:57:39 UTC
From: w1lwt
Topic: 3119 Message: 3119

when I did my cut down device testing I used a series 4 foot adivitiseng red, blue balloons with ornge mrking tape tails at 50 foot each with one emergency blanket on each as a trailer to be seen from a distance that i would watch with a spotting scope to see responce to my testing and radio contact back to the launch site to hook up the next one and pull safety pin to cutting device.on a 6 lb test line at 200 +- feet and at cutting device I used 38 lb test line for a measure of 2 foot in the middle with device i tested line responce and device distance cutting effect and I had One person at the field at the house to monitor it and each cut down i did in series of 3 and 5 miles then 10 than 20 and 25 and I would watch with a spotting scope each one was also vcr taped to veiw later . and a few times with a minuture security amera like you buy at walmart for 75.00 bucks and I had thos connected to below the cutting dive and on its own parachute so when i cutt it the camera recorded what i needded and the drop to the ground and the blloon would take of and i watch it to verify launch and time and on the letter package i had a return letter for finders out there. after a group of 12 test over a few week ends i found it was a good system for me to use i designed and use for launches. up to 25 miles line of sight and reliable. but mind you 99.99 % of my launches oour over the ocean and 2 out of 15 launches was found . the others are still floating out there. but I gave up about worring about recovery I enjoy the launches and tracking and information gathered for the next and shareing the projects with all HAMS in Maine on the NETs.

w1lwt- LEE
EOSRED Project manager

And

K1JJS- John
GROUND NET CONTROL ONE

Check out our Yahoo groups at EOS-2 and EOSRED and W1LWT

see ya at the GPSL look for the plad shirts

3120. If you are flying at GPSL 2007...Please read.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-14 02:51:03 UTC
From: Roger Hammond
Topic: 3120 Message: 3120

This is a copy of an email I submitted about 3 weeks ago. If you are planning to fly at GPSL this year please send me as much information about the transmitters you will be flying as you can. I'm trying coordinate frequencies, time-slotting, and I-gates so that everyone's payload can be accommodated. If I missed you in the first round, I apologize but please send me your information again. Here are the groups I've heard from:

WB8ELK
EOSS
BUNS
NSTAR
ORB

1. Name of your group
2. Website for your group
3. Callsign(s) of your payload
4. A cell phone number that will be carried on the chase (for post-recovery coordination)
5. Number of transmitters and their band (specific frequencies only if you're rock-bound or don't wish to be time-slotted with others on the 144.34/39 freq).
6. Size of balloon
7. Approx number of helium tanks required (K or T)
8. Total flight weight
9. Expected ascent/descent rate
10. Projected burst altitude
11. Special requirements/requests for the GPSL coordinator
12. Short description of your payload including cameras, transmission modes, experiments, etc.

73,

Roger KCØMWM
<mailto:rahammond%40charter.net> rahammond@...
www.cnnsp.org

3121. Re: [GPSL] Re: EOSS-120 / GPSL '07 Draqft payload plan

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-14 05:37:02 UTC
From: Brek Brixius
Topic: 3112 Message: 3121

OK Mike. I won't mail it. I did finish it though. It is a small foam cooler with a through tube, coroplast base pallette, the tube was sanded smooth. I am using 100lb braided dacron looped back on itself 2X (4 strands) and I glued the knots. If I throw in a log tag (temperature logger), the module loaded with camera and batteries weighs right at 1 pound.

I posted some pics to the group. Take a look and tell me if you see anything that needs changed.

One thing I noticed about the through tube, the module spins rather freely. My camera is prone to motion blur. When I fly a like camera from a kite, I have to use a picavet suspension. Is there a way to prevent rotation of a through tube module? Maybe glue the bottom knot to the tube?

Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

You don't have to send me your payload - not that tough to fix on the
spot at GPSL if there are any issues.

And I know a T bottle holds about 300 cuft - I was referring to Paul's
request for half a bottle.

Paul's book is a valuable resource, but it is limited to Paul's preferred
techniques w/o ref to other group's ideas. EOSS has its own version of
a handbook on the EOSS web site - it's pretty long in tooth and doesn't
include a lot new stuff that we've developed since. But it does present
an alternative view, particularly with respect to tracking and recovery
methods.

We used to use a regulator - and it froze up on me at GPSL 2003 in
KS humidity. So I just took it out of the line and used the tank
valve - worked great, and we've used that method ever since. The
regulator just protects against one hazard - a kinked fill hose that
will burst under full tank pressure - so that's why I mentioned the use
of a reinforced hose. Some folks use garden hose, and that's where
a regulator is needed - but the economics don't pan out for the system.

73 de Mike W5VSI

Brek Brixius wrote:
> Thanks Mike. I'll work on packaging a camera in some certafoam with a
> through tube. When I get that done I can mail it to you folks in
> advance so you can inspect it.
>
> I already have a regulator and I made arrangements with a welding shop

> to fabricate the hose for it today. As for wasting money, I have and
> wish I hadn't but, I'm not sure how to avoid it. I guess it is the cost
> of education.
>
> Asking questions helps. I sure feel like a dummy asking some of these
> things but, I have learned that I better ask. Thanks for the advice
> Mike and everybody.
>
> In your note to Paul it looked to me like you expect 150 cu ft. per T
> -tank? I was thinking they were bigger than that. Maybe I need more
> gas. Also, I don't want to put up a light payload on a balloon that is
> underfilled and might not burst. Then if my cutdown fails, I'm stuck.
>
> What I have read said that helium would lift approx. 1 oz per cubic foot
> at sea level. Is that what you figure?
>
> Thanks
> Brek - KC0YOE
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Brek,
>
> "Things should be made as light as possible, but not more so"
>
> So if your camera weighs just a few oz, then adding some LiSO2 batts for
> cold temp operation and a foamcore enclosure with some added foam
> insulation
> inside should keep you under 1 lb - and we can manage that easy.
>
> All we ask is that you use the thru-tube line attach method so your
> enclosure doesn't have to carry the payload line tension. Make sure
> the tube ends are well de-burred!
>
> You could also tie off to a couple of loops on our line, but that
> doesn't keep
> your payload axis aligned, and it's at greater risk of getting wiped off
> during parachute drag.
>
> You could also test your cutdown by putting it on a short section of
> lift line that's shunted by another main thru line that's not cut.
>
> And don't worry about weighing us down. The sooner the balloon bursts,
> the sooner we get to lunch!
>
> Watch out for those "bargain" outdated balloons. It's no bargain if it
> blows after you've dumped $50 of He into it! It's happened.
>
> And don't waste $$$ on a regulator. Nothing but trouble, since they tend
> to freeze up. Just get a 10 ft length of 1/2" reinforced rubber hose and

> use the tank valve to control the fill flow. Use a 8" length of PVC pipe
> for your 1200 gm fill tube, with a cemented PVC reducer to 1/2" NPT
> to mate
> the nipple on your fill hose. Use a hose clamp or 2 to hold the
> balloon neck
> tight on the filler tube. Some nylon line tied just above the PVC
> reducer
> provides a place to tie off your tare weight.
>
> 73 de Mike W5VSI, EOSS
>
> Brek Brixius wrote:
> > Hi Mike:
> >
> > Thanks for the offer. I don't want to weigh EOSS down. Roger and
> I had
> > talked about my sharing a ride with someone to increase my odds of
> > having a successful outcome. It makes sense but, I don't want to
> be a
> > burden to anyone either.
> >
> > My program really has only two objectives. 1. Is to take and
> return a
> > picture (or more) from up there. 2. Is to test my cutdown.
> >
> > My cameras are only 1.3 megapixel but they are very light. One I
> > assembled recently is just over 2 ounces with batteries (but no
> > insulation). If EOSS were willing to take one of my cameras
> along, then
> > I would have a much better chance of achieving #1. Even if I lost my
> > balloon then, it wouldn't be a total loss for me. Let me know if you
> > are interested in just carrying a camera Mike. Give me a weight
> target
> > and some specs about how it would attach and I'll see if I can
> get it
> > packaged.
> >
> > Flying with someone else doesn't prevent me from testing the
> cutdown by
> > dropping something or just cutting a string but, I was looking
> forward
> > to flying my own balloon and doing an actual cut away.
> >
> > I am not quite prepared to fly my own balloon but I am moving in
> that
> > direction as fast as possible. What I am lacking is filler equipment
> > and experience. I have ordered a pressure regulator (the one
> listed in
> > the footnotes in Paul's book). I still need hose and fittings.
> >

> > I have one old 1200 gram balloon and will probably order another one
> > (old surplus) as backup. I have ordered and paid for a T tank of
> > helium. I have a 60" Spherachute TM (I am planning on being pretty
> > light). My module and tracking system are working as tested here
> on the
> > ground. I need to tidy up the package and get it ready to fly. I am
> > planning on going with the wooden separator ring as described in
> Paul's
> > book. I ordered and received today a Microhunt CW beacon that I will
> > incorporate per Roger's suggestion. I also ordered a kit for
> WB2HOL's
> > tape measure beam kit. My wife (KC0YOF) is showing some interest in
> > helping assemble that. It will probably just be me and my wife
> > attending GPSL this year. She is smarter than me but doesn't have
> > experience flying balloons either.
> >
> > As for the cutdown, I have one that is pretty ugly but has worked in
> > several tests here on the ground. I am working on a cleaner smaller
> > version. What I am doing is integrating a 555 and a couple of
> 4017's to
> > provide the time delay to a redrawn version of the FTU described in
> > Paul's book. I also have a couple of stand alone FTU's assembled
> from
> > the plans in Paul's book. One of those has been successfully test
> fired
> > with a manually applied signal but I have not prepared timers for
> those
> > units.
> >
> > I welcome any comments or suggestions Mike, Roger, anybody.
> > Brek - KC0YOE
> >
> >
> > */Mike Manes <manes@...
> <mailto:manes%40attglobal.net>>/* wrote:
> >
> > Hi Guys,
> >
> > At last night's EOSS meeting, we learned that Chris KB0YRZ, our
> mobile
> > ATV downlink, can't make GPSL this year. So we decided to replace the
> > ATV on 426.25 and the ZigBee link with the crossband repeater. Seems
> > the last time we flew this payload was on EOSS-92 during GPSL '05.
> > About time it flew again! And we'll also fly the mini-DVR.
> >
> > The repeater is rockbound on 445.975 up / 147.555 down, 100 duty
> cycle.
> > APRS beacons are overlaid on the downlink.
> >
> > Our new payload weight is now down to 8.0 lb, so we have 4.0 lb to

> > spare under the Part 101 exempt limit. If Brek wants to fly his APRS
> > on 144.39, and it's under 4 lb, then we can haul it up. But we sure
> > won't hit 90K'+ under a 1200 gm balloon with that much load.
> >
> > 73 de Mike W5VSI, EOSS
> >
> > --
> > Mike Manes manes@... <mailto:manes%40attglobal.net>
> Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
> >
> >
> > ---
> > It's here! Your new message!
> > Get new email alerts
> >
> <http://us.rd.yahoo.com/evt=49938/*http://tools.search.yahoo.com/toolbar/features/mail/
>
<http://us.rd.yahoo.com/evt=49938/*http://tools.search.yahoo.com/toolbar/features/mail/>>
>
> > with the free Yahoo! Toolbar. <
> >
> http://us.rd.yahoo.com/evt=49938/*http://tools.search.yahoo.com/toolbar/features/mail/
>
<http://us.rd.yahoo.com/evt=49938/*http://tools.search.yahoo.com/toolbar/features/mail/>>
>
> >
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
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>
>
> ---
> Luggage? GPS? Comic books?
> Check out fitting gifts for grads
> <http://us.rd.yahoo.com/evt=48249/*http://search.yahoo.com/search?fr=oni_on_mail&p=gradu
ation+gifts&cs=bz>
> at Yahoo! Search.
>
> ---
> Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge
> <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222>to
> see what's on, when.

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

---

Get the Yahoo! toolbar and be alerted to new email wherever you're surfing.

Luggage? GPS? Comic books?
Check out fitting gifts for grads at Yahoo! Search.

3122. Re: [GPSL] 2007 Helium orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-14 14:38:25 UTC
From: PAUL VERHAGE
Topic: 3093 Message: 3122

I'd be happy to split a tank. After talking to Roger, I see he plans to have a spare tank for this situation. Guess I better save my pennies.

Paul

>>> Mike Manes <manes@...> 5/11/2007 6:29 pm >>>
Hi Paul,

Roger says that his suppliers will take untapped bottles back for a
refund. So we ought to "pool" the attendees to drain as many bottles
as possible, leaving as many as possible untapped.

EOSS is ordering 2 T bottles, although we will need just 280 cuft if our
1200 gm fill goes uneventfully. You can have the remaining 20 cuft, gratis!!

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I'll need a tank and a half for my balloon. So I'm ordering one tank and hoping to split the cost of a second tank.
>
> Paul
>
>>>> Mike Manes <manes@...> 5/9/2007 5:57 pm >>>
> How many cuft He do you need, Paul? Half a K bottle (110 cuft) won't go far
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

3123. Re: Requesting assistance with Flight Package

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 03:45:58 UTC
From: Mike Manes
Topic: 3123 Message: 3123

Hi Don,

Since you have a KPC-3+, you already have 2 analog telemetry ports (8-bit,
0 to +5V) available on the DB-25 pins 11 & 18. See the ANAlog writeup
in the command ref part of the KPC-3+ manual. We use the Nat Semi LM335
temperature sensor which yields an output of 10 mV/deg K; e.g., +2.73V appears
at 0 deg C (273 deg K). Note that the LM335 does dissipate a few mw, so
you must use a convective heat sink to get good coupling to the ambient
air - which is pretty thin at 10 mbar! Also shield the outside sensor and
sink from the sun and paint it flat white. Don't forget that the sensor
reads its OWN temp, not necessarily that of the medium it's embedded in.

Set up the TELEMetry command to determine how often the analog telemetry
gets beaconed.

Now, if you want the BS to send its own stuff, then you'll need to convert
the TTL levels to RS-232 levels and have the BS issue Unproto data to the
serial port (first go to Converse mode using <ctrl-C> K <cr>), and then
sending a line of telemetry in 7-bit ASCII followed by a <cr>. It will go
out as a beacon sent to your UNProto address and path.

73 de Mike W5VSI, EOSS

Arledge, Don wrote:
> Gentlemen,
>
> I am requesting your input and assistance with a little conundrum I
> have. I'm working on the flight package for my next launch. One of the
> components I have is a temperature sensor for monitoring the temperature
> inside and outside the flight package, its built using a basic stamp.
> What I need to do is get my TNC to transmit the data so I can receive
> and read it on my laptop computer. I'm using a KPC3+ and the DB9 port is
> set up for my HT and GPS. It has been tested and works well. The only
> port I have left is the DB25 but I'm not sure how to connect the basic
> stamp to the DB25, then get the TNC to send the data, and finally I need
> to be able to view it on my laptop preferably via a hyper terminal
> window or such. Any help or suggestions would be greatly appreciated.
>
> With highest regards,
>
> Don KI4QVO
>
> *****
>
> The information transmitted is intended only for the person or entity to
> which it is addressed and may contain confidential, proprietary, and/or

> privileged material. Any review, retransmission, dissemination or other
> use of, or taking of any action in reliance upon this information by
> persons or entities other than the intended recipient is prohibited. If
> you received this in error, please contact the sender and delete the
> material from all computers. GA623
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3124. [Fwd: [Ballooning] Helping LiftPort]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 04:27:46 UTC
From: Mike Manes
Topic: 3124 Message: 3124

FYI - not sure Wikinomics is or how balloons tie into the LiftPort, wotever THAT is (tethered synchronous satellite??).

73 de Mike W5VSI

-------- Original Message --------
Subject: [Ballooning] Helping LiftPort
Date: Mon, 14 May 2007 13:29:35 -0000
From: Herbert Murray <hcm1955@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Last week I posted this request on the National Space Society Chapter for Space Elevator group. I would like to expand to a larger audience , hence this post. Liftport's new vision and goal is an open source and highly collaborative organization adopting the Wikinomics paradigm. Not everyone agrees one on what that means,(or understands what that means) but that is not important for the work that needs to be done in the near future. There are two general areas were Michael needs lots of help:

A. Helping with LiftPort's high altitude balloon effort.
B. Building content on the LiftPort's Part of the Wikinomics site

I will receive specific to-do lists in the very near future. Mean time I would like to start organizing a list of volunteers who are interest in helping with these efforts. If you are interest in building content on the Wikinomics site, you should start looking through it. I have place links at the end of this message.

I believe this is an opportunity to really make a difference in making the elevator to space a step closer to reality, and certainly helping Michael and Liftport, so please spread the word.

If you are interested the choices for contacting me are:

A Reply to this post
B Email me at hcm1955@...
C Call me at work: 301 698 3382
D IM: Yahoo at hcm1955

Links

LiftPort's Wikinomics:
http://tinyurl.com/2o334o

LiftPort's Home Site
http://www.liftport.com/

Thanks,
BertMurray
http://seattlewebcrafters.com/nsecc/?q=node/view/2

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3125. Balloon Soup

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 04:26:12 UTC
From: Brek Brixius
Topic: 3125 Message: 3125

I have an old balloon and was considering buying another old one as a backup. I might be interested in buying a new one though. Where is the best place to get a sigle balloon?

Also, I read in an old manual somewhere that if the Balloon was past date that it could be used but should be placed in boiling water first. Anybody ever heard of that?

Brek - KC0YOE

Boardwalk for $500? In 2007? Ha!
Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.

3126. Re: [GPSL] Balloon Soup

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 13:05:55 UTC
From: Mike Manes
Topic: 3125 Message: 3126

Kaymont Consolidated sells Totex balloons (www.kaymont.com), and Scientific Sales sells another brand that's not on our preferred vendor list. I think they sell onesies. Availability may be an issue, since we've had to wait a couple of months for shipment from Japan if Kaymont is out of stock.

I've not heard of boiling an old balloon, but Norm Kjome has soaked 'em in kerosene - in fact, that's how he made the 121.5K' record with an old 3000 gm and a 3 lb payload. BTW, old balloons have a pretty bad record of wasting a load of helium. Like putting used motor oil in a Ferrari; it pays off, for a while ...

73 de Mike W5VSI

Brek Brixius wrote:
> I have an old balloon and was considering buying another old one as a
> backup. I might be interested in buying a new one though. Where is the
> best place to get a sigle balloon?
>
> Also, I read in an old manual somewhere that if the Balloon was past
> date that it could be used but should be placed in boiling water first.
> Anybody ever heard of that?
>
> Brek - KC0YOE
>
> ---
> Boardwalk for $500? In 2007? Ha!
> Play Monopoly Here and Now
> <http://us.rd.yahoo.com/evt=48223/*http://get.games.yahoo.com/proddesc?gamekey=monopolyherenow>
> (it's updated for today's economy) at Yahoo! Games.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3127. Re: [GPSL] Balloon Soup

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 12:42:00 UTC
From: nss@mwt.net
Topic: 3125 Message: 3127

BTW, old balloons have a pretty bad record
> of wasting a load of helium. Like putting used motor oil in a Ferrari;
> it pays off, for a while ...

Wouldn't you really mean,

"Like putting top grade synthetic oil into a 77 vega?

3128. Re: [GPSL] Re: Requesting assistance with Flight Package

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 13:15:17 UTC
From: mconner1@gmail.com
Topic: 3123 Message: 3128
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3129. Re: [GPSL] If you are flying at GPSL 2007...Please read.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 13:45:33 UTC
From: BASE
Topic: 3120 Message: 3129

--- Roger Hammond <rahammond@...> wrote:

>
> 1. Name of your group: BASE (DePauw)
> 2. Website for your group:
www.depauw.edu/acad/physics/base
> 3. Callsign(s) of your payload: BASE 7
> 4. A cell phone number that will be carried on the
> chase (for post-recovery
> coordination): (765) 721-4179
> 5. Number of transmitters and their band (specific
> frequencies only if
> you're rock-bound or don't wish to be time-slotted
> with others on the
> 144.34/39 freq).
Primary transmitter: 902-928 MHz FreeWave (ala Jeff
Dailey)
Secondary: 144.39 MHz

> 6. Size of balloon: 1500 gram
> 7. Approx number of helium tanks required (K or T):
2 T tanks (will use about 1.6 tanks)
> 8. Total flight weight: 5 kg
> 9. Expected ascent/descent rate: Ascent 900 ft/min
Descent: 1200 ft/min
> 10. Projected burst altitude: 90,000 ft
> 11. Special requirements/requests for the GPSL
> coordinator
> 12. Short description of your payload including
> cameras, transmission modes,
> experiments, etc.
Solar cell performance experiment
Assorted wavelength photometric measurements
Muon Detector System
HALO Network Demonstrator
Multiple Digital Still Cameras
Digital Video Camera (no live downlink)

>
> 73,
>
> Roger KC?MWM
> <mailto:rahammond%40charter.net>
> rahammond@...
> www.cnnsp.org
>

Howard Brooks
DePauw University
Greencastle, IN 46135
hlbrooks@...
or
basedepauw@...

Moody friends. Drama queens. Your life? Nope! - their life, your story. Play Sims Stories at Yahoo! Games.
http://sims.yahoo.com/

3130. [GPSL] Re: Requesting assistance with Flight Package

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 14:54:22 UTC
From: PAUL VERHAGE
Topic: 3123 Message: 3130

My book on Parallax describes how to do this also.

If you're starting from scratch it's easier and cheaper to use a Tiny Trak.

Paul

>>> Mike Manes <manes@...> 5/14/2007 9:45:58 pm >>>
Hi Don,

Since you have a KPC-3+, you already have 2 analog telemetry ports (8-bit,
0 to +5V) available on the DB-25 pins 11 & 18. See the ANAlog writeup
in the command ref part of the KPC-3+ manual. We use the Nat Semi LM335
temperature sensor which yields an output of 10 mV/deg K; e.g., +2.73V appears
at 0 deg C (273 deg K). Note that the LM335 does dissipate a few mw, so
you must use a convective heat sink to get good coupling to the ambient
air - which is pretty thin at 10 mbar! Also shield the outside sensor and
sink from the sun and paint it flat white. Don't forget that the sensor
reads its OWN temp, not necessarily that of the medium it's embedded in.

Set up the TELEMetry command to determine how often the analog telemetry
gets beaconed.

Now, if you want the BS to send its own stuff, then you'll need to convert
the TTL levels to RS-232 levels and have the BS issue Unproto data to the
serial port (first go to Converse mode using <ctrl-C> K <cr>), and then
sending a line of telemetry in 7-bit ASCII followed by a <cr>. It will go
out as a beacon sent to your UNProto address and path.

73 de Mike W5VSI, EOSS

Arledge, Don wrote:
> Gentlemen,
>
> I am requesting your input and assistance with a little conundrum I
> have. I'm working on the flight package for my next launch. One of the
> components I have is a temperature sensor for monitoring the temperature
> inside and outside the flight package, its built using a basic stamp.
> What I need to do is get my TNC to transmit the data so I can receive
> and read it on my laptop computer. I'm using a KPC3+ and the DB9 port is
> set up for my HT and GPS. It has been tested and works well. The only
> port I have left is the DB25 but I'm not sure how to connect the basic
> stamp to the DB25, then get the TNC to send the data, and finally I need
> to be able to view it on my laptop preferably via a hyper terminal
> window or such. Any help or suggestions would be greatly appreciated.
>
> With highest regards,
>

> Don KI4QVO
>
> *****
>
> The information transmitted is intended only for the person or entity to
> which it is addressed and may contain confidential, proprietary, and/or
> privileged material. Any review, retransmission, dissemination or other
> use of, or taking of any action in reliance upon this information by
> persons or entities other than the intended recipient is prohibited. If
> you received this in error, please contact the sender and delete the
> material from all computers. GA623
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

3131. Re: [GPSL] Balloon Soup

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 14:53:03 UTC
From: PAUL VERHAGE
Topic: 3125 Message: 3131

I always purchase balloons from Kaymont (www.kaymont.com). I just got two 1200 gram balloons for $130 including the shipping.

I heard that Norm Kjome recommends soaking old balloons in kerosene before filling them. Perhaps EOSS can fill us in on this strange practice.

Paul

>>> Brek Brixius <gofly2007@...> 5/14/2007 10:26:12 pm >>>
I have an old balloon and was considering buying another old one as a backup. I might be interested in buying a new one though. Where is the best place to get a sigle balloon?

Also, I read in an old manual somewhere that if the Balloon was past date that it could be used but should be placed in boiling water first. Anybody ever heard of that?

Brek - KC0YOE

Boardwalk for $500? In 2007? Ha!
Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.

3132. Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 19:40:29 UTC
From: Ralph Wallio, W0RPK
Topic: 3132 Message: 3132
Attachments: 3 described; binary payloads are missing from this source WARC

Photos available if they do not make it through the listserver.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "T. Gregory Guzik" <guzik@...>
To: "Student Satellite" <SGSatellites@...>
Sent: Tuesday, May 15, 2007 2:31 PM
Subject: [SGSatellites] Lost and Found?

Found: Amateur / student latex balloon payload on beachfront of Radisson Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning (~7 am) on Sunday, May 6, 2007. Balloon payload appears to consist of (see attached images) one box construction of ?" foam board containing an upward looking video camera plus ATV antenna and transmitter, one box also constructed of ?" foam board containing a GPS received and telemetry transmitter, a clear plastic parachute, latex balloon remnant and flight string. No identity tags were found on the payload. Payload boxes and electronics were recovered by T. Gregory Guzik of Louisiana State University. If this payload is yours, please contact me at guzik@... and I will ship the component to you.

Cheers,

Greg Guzik

3133. Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 20:33:11 UTC
From: Ralph Wallio, W0RPK
Topic: 3132 Message: 3133

Photos available via Greg or myself.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "T. Gregory Guzik" <guzik@...>
To: "Student Satellite" <SGSatellites@...>
Sent: Tuesday, May 15, 2007 2:31 PM
Subject: [SGSatellites] Lost and Found?

Found: Amateur / student latex balloon payload on beachfront of Radisson Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning (~7 am) on Sunday, May 6, 2007. Balloon payload appears to consist of (see attached images) one box construction of ?" foam board containing an upward looking video camera plus ATV antenna and transmitter, one box also constructed of ?" foam board containing a GPS received and telemetry transmitter, a clear plastic parachute, latex balloon remnant and flight string. No identity tags were found on the payload. Payload boxes and electronics were recovered by T. Gregory Guzik of Louisiana State University. If this payload is yours, please contact me at guzik@... and I will ship the component to you.

Cheers,

Greg Guzik

3134. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 20:40:22 UTC
From: Joe
Topic: 3132 Message: 3134

well who has a flight that would have come down there,, that should
narrow the owner greatly i would think

Ralph Wallio, W0RPK wrote:

>Photos available via Greg or myself.
>
>TNX es 73 de Ralph Wallio, W?RPK
>W0RPK@...
>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
>
>
>----- Original Message -----
>From: "T. Gregory Guzik" <guzik@...>
>To: "Student Satellite" <SGSatellites@...>
>Sent: Tuesday, May 15, 2007 2:31 PM
>Subject: [SGSatellites] Lost and Found?
>
>
>Found: Amateur / student latex balloon payload on beachfront of Radisson
>Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning (~7 am)
>on Sunday, May 6, 2007. Balloon payload appears to consist of (see attached
>images) one box construction of ?" foam board containing an upward looking
>video camera plus ATV antenna and transmitter, one box also constructed of
>?" foam board containing a GPS received and telemetry transmitter, a clear
>plastic parachute, latex balloon remnant and flight string. No identity
>tags were found on the payload. Payload boxes and electronics were
>recovered by T. Gregory Guzik of Louisiana State University. If this
>payload is yours, please contact me at guzik@... and I will
>ship the component to you.
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>
>Cheers,
>
>Greg Guzik
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>Yahoo! Groups Links
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3135. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 20:42:25 UTC
From: Joe
Topic: 3132 Message: 3135

as nasty as that looks,,, I wonder if it was a splashdown and finally
washed ashore?

Joe

Ralph Wallio, W0RPK wrote:

>Photos available if they do not make it through the listserver.
>
>TNX es 73 de Ralph Wallio, W?RPK
>W0RPK@...
>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
>----- Original Message -----
>From: "T. Gregory Guzik" <guzik@...>
>To: "Student Satellite" <SGSatellites@...>
>Sent: Tuesday, May 15, 2007 2:31 PM
>Subject: [SGSatellites] Lost and Found?
>
>
>Found: Amateur / student latex balloon payload on beachfront of Radisson
>Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning (~7 am)
>on Sunday, May 6, 2007. Balloon payload appears to consist of (see attached
>images) one box construction of ?" foam board containing an upward looking
>video camera plus ATV antenna and transmitter, one box also constructed of
>?" foam board containing a GPS received and telemetry transmitter, a clear
>plastic parachute, latex balloon remnant and flight string. No identity
>tags were found on the payload. Payload boxes and electronics were
>recovered by T. Gregory Guzik of Louisiana State University. If this
>payload is yours, please contact me at guzik@... and I will
>ship the component to you.
>
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>
>Cheers,
>
>Greg Guzik
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>Yahoo! Groups Links

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3136. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 21:43:56 UTC
From: mconner1@gmail.com
Topic: 3132 Message: 3136
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3137. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 23:20:03 UTC
From: wb8elk@aol.com
Topic: 3132 Message: 3137

I would agree with Mark that it probably was fairly recently lost due to the duct tape still being intact and the Little Wheel ATV antenna doesn't look very corroded and probably splashed down at sea perhaps some distance away.....I would venture to guess it's someone along the Atlantic Seaboard and could've have drifted at sea for some distance....perhaps the Puerto Rico group. Although I've personally dropped 8 payloads into the Atlantic (got one back that landed next to a speedboat in Boston Harbor) and Gary Dion N4TXI also of Huntsville AL has dropped one or two out there in the Bermuda Triangle...none of them had ATV onboard.....Lee W1LWT in Maine did however drop a number of payloads at sea including ATV I believe...I'll email him to see if this one is his.

I would imagine that the tracker chip may still have the callsign embedded in it....and the make of the tracker could be a clue too....if it's a MIM chip...then it's been out to sea for awhile....might be a new entry for "longest recovery time"

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3138. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 23:50:49 UTC
From: PAUL VERHAGE
Topic: 3132 Message: 3138

Something from the Bermuda Triangle?

Paul

>>> Joe <nss@...> 5/15/2007 2:40:22 pm >>>
well who has a flight that would have come down there,, that should
narrow the owner greatly i would think

Ralph Wallio, W0RPK wrote:

>Photos available via Greg or myself.
>
>TNX es 73 de Ralph Wallio, WØRPK
>W0RPK@...
>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
>
>
>----- Original Message -----
>From: "T. Gregory Guzik" <guzik@...>
>To: "Student Satellite" <SGSatellites@...>
>Sent: Tuesday, May 15, 2007 2:31 PM
>Subject: [SGSatellites] Lost and Found?
>
>
>Found: Amateur / student latex balloon payload on beachfront of
Radisson
>Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning
(~7 am)
>on Sunday, May 6, 2007. Balloon payload appears to consist of (see
attached
>images) one box construction of ½" foam board containing an upward
looking
>video camera plus ATV antenna and transmitter, one box also
constructed of
>½" foam board containing a GPS received and telemetry transmitter, a
clear
>plastic parachute, latex balloon remnant and flight string. No
identity
>tags were found on the payload. Payload boxes and electronics were
>recovered by T. Gregory Guzik of Louisiana State University. If this
>payload is yours, please contact me at guzik@... and I
will
>ship the component to you.
>
>

>
>Cheers,
>
>Greg Guzik
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>Yahoo! Groups Links
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Yahoo! Groups Links

3139. Re: [GPSL] Re: Requesting assistance with Flight Package

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-15 21:13:24 UTC
From: Mike Manes
Topic: 3123 Message: 3139

The Tiny Trak is just a dumb APRS beacon, however, and doesn't support telemetry or digipeating. It's also kind of susceptible to counterpoise RF, requiring some Black Art from time to time to yield a clean packet signal. It is cheap and light, however. And although it can be time slotted, the slot timing re GPS is set just once on the first valid RMC or GGA sentence, and then drifts based on the PIC clock freq error - it can slip 10-15 sec over 3 hours.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> My book on Parallax describes how to do this also.
>
> If you're starting from scratch it's easier and cheaper to use a Tiny Trak.
>
> Paul
>
>>>> Mike Manes <manes@...> 5/14/2007 9:45:58 pm >>>
> Hi Don,
>
> Since you have a KPC-3+, you already have 2 analog telemetry ports (8-bit,
> 0 to +5V) available on the DB-25 pins 11 & 18. See the ANAlog writeup
> in the command ref part of the KPC-3+ manual. We use the Nat Semi LM335
> temperature sensor which yields an output of 10 mV/deg K; e.g., +2.73V appears
> at 0 deg C (273 deg K). Note that the LM335 does dissipate a few mw, so
> you must use a convective heat sink to get good coupling to the ambient
> air - which is pretty thin at 10 mbar! Also shield the outside sensor and
> sink from the sun and paint it flat white. Don't forget that the sensor
> reads its OWN temp, not necessarily that of the medium it's embedded in.
>
> Set up the TELEMetry command to determine how often the analog telemetry
> gets beaconed.
>
> Now, if you want the BS to send its own stuff, then you'll need to convert
> the TTL levels to RS-232 levels and have the BS issue Unproto data to the
> serial port (first go to Converse mode using <ctrl-C> K <cr>), and then
> sending a line of telemetry in 7-bit ASCII followed by a <cr>. It will go
> out as a beacon sent to your UNProto address and path.
>
> 73 de Mike W5VSI, EOSS
>
> Arledge, Don wrote:
>> Gentlemen,
>>
>> I am requesting your input and assistance with a little conundrum I

>> have. I'm working on the flight package for my next launch. One of the
>> components I have is a temperature sensor for monitoring the temperature
>> inside and outside the flight package, its built using a basic stamp.
>> What I need to do is get my TNC to transmit the data so I can receive
>> and read it on my laptop computer. I'm using a KPC3+ and the DB9 port is
>> set up for my HT and GPS. It has been tested and works well. The only
>> port I have left is the DB25 but I'm not sure how to connect the basic
>> stamp to the DB25, then get the TNC to send the data, and finally I need
>> to be able to view it on my laptop preferably via a hyper terminal
>> window or such. Any help or suggestions would be greatly appreciated.
>>
>> With highest regards,
>>
>> Don KI4QVO
>>
>> *****
>>
>> The information transmitted is intended only for the person or entity to
>> which it is addressed and may contain confidential, proprietary, and/or
>> privileged material. Any review, retransmission, dissemination or other
>> use of, or taking of any action in reliance upon this information by
>> persons or entities other than the intended recipient is prohibited. If
>> you received this in error, please contact the sender and delete the
>> material from all computers. GA623
>>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3140. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-16 05:07:38 UTC
From: Mike Manes
Topic: 3132 Message: 3140

From appearances, that's the more likely scenario. The gulf stream runs
N along the E coast of FL, so it might have been one of the U PR flights.
I'll forward the email with the pix to Oscar.

73 de Mike W5VSI

Joe wrote:
> as nasty as that looks,,, I wonder if it was a splashdown and finally
> washed ashore?
>
> Joe
>
> Ralph Wallio, W0RPK wrote:
>
>> Photos available if they do not make it through the listserver.
>>
>> TNX es 73 de Ralph Wallio, WØRPK
>> W0RPK@...
>> http://showcase.netins.net/web/wallio/
>> Hubbert's Peak - The Mother of all Perfect Storms
>>
>>
>>
>>
>> ----- Original Message -----
>> From: "T. Gregory Guzik" <guzik@...u.edu>
>> To: "Student Satellite" <SGSatellites@...>
>> Sent: Tuesday, May 15, 2007 2:31 PM
>> Subject: [SGSatellites] Lost and Found?
>>
>>
>> Found: Amateur / student latex balloon payload on beachfront of Radisson
>> Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning (~7 am)
>> on Sunday, May 6, 2007. Balloon payload appears to consist of (see attached
>> images) one box construction of ½" foam board containing an upward looking
>> video camera plus ATV antenna and transmitter, one box also constructed of
>> ½" foam board containing a GPS received and telemetry transmitter, a clear
>> plastic parachute, latex balloon remnant and flight string. No identity
>> tags were found on the payload. Payload boxes and electronics were
>> recovered by T. Gregory Guzik of Louisiana State University. If this
>> payload is yours, please contact me at guzik@phunds.phys.lsu.edu and I will
>> ship the component to you.
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>> Cheers,
>>
>> Greg Guzik
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>> Yahoo! Groups Links
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3141. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-16 05:21:54 UTC
From: Mike Manes
Topic: 3132 Message: 3141

The gulf stream runs N along the Atlantic coast, so it'd be real weird
if was launched as far N as Maine. And brass does stand up pretty well
in sea water - that's why it's used on boats.

It may have landed in the Gulf of Mexico or Caribbean as well - the gulf
current starts there.

I forwarded Ralph's email to Oscar Rento KP4RF at U PR.

73 de Mike

wb8elk@... wrote:
> I would agree with Mark that it probably was fairly recently lost due to
> the duct tape still being intact and the Little Wheel ATV antenna
> doesn't look very corroded and probably splashed down at sea perhaps
> some distance away.....I would venture to guess it's someone along the
> Atlantic Seaboard and could've have drifted at sea for some
> distance....perhaps the Puerto Rico group. Although I've personally
> dropped 8 payloads into the Atlantic (got one back that landed next to a
> speedboat in Boston Harbor) and Gary Dion N4TXI also of Huntsville AL
> has dropped one or two out there in the Bermuda Triangle...none of them
> had ATV onboard.....Lee W1LWT in Maine did however drop a number of
> payloads at sea including ATV I believe...I'll email him to see if this
> one is his.
>
> I would imagine that the tracker chip may still have the callsign
> embedded in it....and the make of the tracker could be a clue too....if
> it's a MIM chip...then it's been out to sea for awhile....might be a new
> entry for "longest recovery time"
>
> - Bill WB8ELK
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>
> ---
> See what's free at AOL.com <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3142. Re: [GPSL] Fw: [SGSatellites] Lost and Found?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-16 05:07:34 UTC
From: wb8elk@aol.com
Topic: 3132 Message: 3142

Paul...if it came from the Bermuda Triangle...then it may have come from the future and not been launched yet.

I heard from Hector N1TKK in Puerto Rico and Lee W1LWT in Maine and it's not one of theirs even though both groups have lost payloads in the Atlantic.

I did however, find out that there is a student program out of UCF that flies from the Cape and that's very close by....so it very likely may be one of theirs....I emailed one of their people to see.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3143. Payload owner identified

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-16 14:48:14 UTC
From: Ralph Wallio, W0RPK
Topic: 3143 Message: 3143

----- Original Message -----
From: "T. Gregory Guzik" <guzik@...>
To: "Student Satellite" <SGSatellites@...>; <W0RPK@...>; <jmukherj@...>
Sent: Wednesday, May 16, 2007 9:35 AM
Subject: And we have a winner!

From: T. Gregory Guzik [mailto:guzik@...]
Sent: Wednesday, May 16, 2007 9:33 AM
To: 'Robert Eppig'
Subject: RE: [SGSatellites] Lost and Found?

Robert,

With the payload in reasonably good condition, I suspected that it could not have been in the water very long. Do you have any pictures of the launch? It would be interesting to compare the before and after shots. Send me an address where you want the components shipped and I will get it in the mail within the next few days.

Cheers,

Greg

From: Robert Eppig [mailto:reppig@...]
Sent: Wednesday, May 16, 2007 7:30 AM
To: 'T. Gregory Guzik'
Subject: RE: [SGSatellites] Lost and Found?

It is ours. I work with the Florida Space Institute(FSI) under the University of Central Florida. FSI runs Florida Space Grant and I work with Space Grant also. Space Grant and Space Florida (a state entity) team up and hold "Florida Space Academies" for college, high school, and middle school students. It is usually 1 week of putting the payloads together and tours of KSC/ Cape Canaveral Air Station. The academies are designed to encourage students to stay in school and further their education in Florida and to stay in Florida working in the space industry(hopefully). The main players in the academies are: Mr. Tony Gannon, Education & Workforce Development with Space Florida, Dr. Larry Chew education coordinator from UCF, and myself engineering tech.

The payload you found was from the academy class that ran from Apr. 30 - May 4 with the launch on May 4th. The winds were not that strong that day. We lost the balloon just off shore from where you found it.

What do I need to do to get the payload back???

"Education is what remains after one has forgotten what one has learned in school." - Albert Einstein

Robert Eppig
Florida Space Institute
MS: FSI Bldg: M6-306
Kennedy Space Center, FL 32899
321-452-9834 ext 218

3144. Re: [GPSL] Payload owner identified

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-16 14:58:31 UTC
From: mconner1@gmail.com
Topic: 3143 Message: 3144
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3145. Re: [GPSL] Fw: [SGSatellites] Lost and Found?]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-16 18:29:37 UTC
From: Mike Manes
Topic: 3145 Message: 3145

Hi Oscar,

OK, and I guess this shows the importance of putting a "return to sender" label on your payloads!

Good luck on your upcoming flights!

BTW, the U PR email server has taken a dislike to me ... sez I'm an "untrusted mailer" :={. Geez, was it something I said?

73 de Mike W5VSI

Oscar Resto wrote:
> Thanks Mike, but this are not ours. I hope we can find the owner.
>
> Oscar KP4RF
>
>
> ----- Original Message ----- From: "Mike Manes" <manes@...>
> To: "Oscar Resto" <oscar@...>; "Oscar Resto" <kp4rf@...>; "Bill
> Brown, WB8ELK" <WB8ELK@...>
> Sent: Wednesday, May 16, 2007 1:10 AM
> Subject: [Fwd: [GPSL] Fw: [SGSatellites] Lost and Found?]
>
>
> Hi Oscar & Bill,
>
> Do these pix look familiar?
>
> 73 de Mike W5VSI, EOSS
>
> -------- Original Message --------
> Subject: [GPSL] Fw: [SGSatellites] Lost and Found?
> Date: Tue, 15 May 2007 14:40:29 -0500
> From: Ralph Wallio, W0RPK <W0RPK@...>
> Reply-To: GPSL@yahoogroups.com
> To: GPSL <GPSL@yahoogroups.com>
>
> Photos available if they do not make it through the listserver.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>

>
>
> ----- Original Message -----
> From: "T. Gregory Guzik" <guzik@...>
> To: "Student Satellite" <SGSatellites@...>
> Sent: Tuesday, May 15, 2007 2:31 PM
> Subject: [SGSatellites] Lost and Found?
>
>
> Found: Amateur / student latex balloon payload on beachfront of Radisson
> Suite Hotel (3101 North Highway A1A, Indialantic, FL) early morning (~7 am)
> on Sunday, May 6, 2007. Balloon payload appears to consist of (see
> attached
> images) one box construction of ½" foam board containing an upward looking
> video camera plus ATV antenna and transmitter, one box also constructed of
> ½" foam board containing a GPS received and telemetry transmitter, a clear
> plastic parachute, latex balloon remnant and flight string. No identity
> tags were found on the payload. Payload boxes and electronics were
> recovered by T. Gregory Guzik of Louisiana State University. If this
> payload is yours, please contact me at guzik@... and I will
> ship the component to you.
>
>
>
> Cheers,
>
> Greg Guzik
>
>
>
>
> Yahoo! Groups Links
>
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3146. Freq / Time Slotting GPSL 2007 (prelim)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-19 14:41:25 UTC
From: Roger Hammond
Topic: 3146 Message: 3146
Attachments: 1 described; binary payloads are missing from this source WARC

Attached is the preliminary frequency assignments and time slots.
There are 11 flights confirmed, I'm still waiting to hear from MECSAT, which would make 12.

Here is the list of confirmed flights:

Bill Brown
EOSS
BUNS
NSTAR
Near Space Ventures
NearSys
ORB
BASE
Taylor University
Nick Stich
Reach For Space

If anyone sees a problem or if I've missed someone's transmitter, let me know as soon as possible.

73 de Roger KCØMWM
rahammond@charter.net
www.cnnsp.org
www.superlaunc.org

3147. superlaunch website correction

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-19 14:53:55 UTC
From: Roger Hammond
Topic: 3147 Message: 3147

It looks like my fingers weren't following my brain on the last email.
The superlaunch website URL is:

www.superlaunch.org

73 de Roger KCØMWM

3148. New file uploaded to GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-20 21:20:09 UTC
From: GPSL@yahoogroups.com
Topic: 1529 Message: 3148

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the GPSL
group.

File : /GPSL 2007/GPSL_Freq.pdf
Uploaded by : kc0mwm <rahammond@...>
Description : Freq and time-slotting, (draft)

You can access this file at the URL:
http://groups.yahoo.com/group/GPSL/files/GPSL%202007/GPSL_Freq.pdf

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/help/us/groups/files

Regards,

kc0mwm <rahammond@...>

3149. GPSL 2007 post-recovery addition

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-23 01:24:29 UTC
From: Roger Hammond
Topic: 3149 Message: 3149

For anyone interested we're adding a little something new to the GPSL weekend. Saturday after the launch, chase, and recovery we'd like all of the groups to reassemble back at the hotel for a "How Did It Go?" session. Each group can have about 5 to 10 minutes to tell us about their flight and recovery. After the session anyone that would like to participate in the social hour is welcome to join us. The hotel will provide a cash bar during this time. Here are the additions to Saturday's schedule.

For Saturday, 7 July add:
3:00 PM Cottonwood Room How Did It Go? Informal review of the morning's flights by each group (5-10 mins per group)
5:00 PM Cottonwood Room Social Hour (non-tech session attendees very welcome)
7:00 PM Local Restaurants Dinner

My thanks to Nick from EOSS for his assistance in lining this up.

73 de Roger KCØMWM

3150. GPSL 2007 Primary Launch Site

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-23 01:56:55 UTC
From: Roger Hammond
Topic: 3150 Message: 3150
Attachments: 2 described; binary payloads are missing from this source WARC

I think this will likely be the primary launch site for GPSL 2007. I've attached a couple of photos I took this afternoon, to give everyone an idea of what to expect. This is the relatively new Webb Road Sports Field that was finished a couple of years ago. It's primarily a soccer complex, but it has a nice large parking lot. I've been in touch with the city parks department and we're on the schedule for July 7, 2007. There holding tournaments there the following day, so we wouldn't be able to use it if we end up scrubbing on Saturday. It's a nice wide open space in the middle of Grand Island and the only obstacle is a cell tower several blocks away. Unfortunately there are no wind blocks. If you look it up on Google Maps, the field is obscured by clouds.

Here are the coordinates to the front gate:

N40 54.547 W98 22.713

73 de Roger KCØMWM

3151. GPSL 2007 Frequency & Time Slotting update

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-23 03:18:27 UTC
From: Roger Hammond
Topic: 3151 Message: 3151
Attachments: 1 described; binary payloads are missing from this source WARC

I've added EOSRED's frequencies to the list. I made one change to the APRS time/freq table. NSTAR's secondary payload will now be on 144.36 instead of 144.39.

I'll upload the PDF to the file section for those who don't receive individual emails.

I've heard from everyone regarding their payloads/transmitters, except for MECSAT. I've tried the only email address that I have for them, but no response. If anyone knows how I might get a hold of them, please let me know. In December they were still planning on attending GPSL 2007.

Time is running short.

73 de Roger KCØMWM

3152. Re: Balloons and kerosene

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-25 22:05:00 UTC
From: Mike Manes
Topic: 3152 Message: 3152

Thanks, Norm

I always know whom to go to for answers to the tough ones :=}.
And I recall watching you dunk that 3000 --- and yeah, it sure didn't
want to burst, did it?

73 de Mike W5VSI

Norman T. Kjome wrote:
> Hi Mike, Hi Robert,
>
> Yes, all the balloons were latex, not neoprene.
>
> In the arctic the Canadians had tried soaking balloons in kerosene to
> increase their flexibility and thereby getting to higher altitudes. The
> Danes had also done this in Thule, Greenland, with something closer to
> diesel fuel, or maybe it was some kind of lamp oil. Oh, and the Russians
> had also done this when we worked on an experiment there - they just
> dunked the balloons one at a time into a bucket of kerosene and washed
> it around, keeping the neck out so the kerosene did not go inside. They
> steamed their balloons first, too.
>
> So I tried the kerosene washing with some 10-year-old 3000-gram latex
> balloons that had been made in Japan by Totex. I got varied results, but
> one at least got a really good burst height. (I'm surprised that my
> record still is there on Ralph Wallio's page.)
>
> It is a very messy process. The problem is that the entire outside of
> the balloon must be coated as evenly as possible. I used a 5-gallon
> bucket and a gallon of kerosene, but would have done better with a
> larger bucket and much more kerosene. And some help. I think this
> coating cannot be done except on the day of launch, or the rubber will
> deteriorate.
>
> I had thought about maybe spraying a balloon with the kerosene after
> filling it out with helium, but decided that the mist would make an
> explosive air-fuel mixture -- way too dangerous.
>
> Norm
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3153. Re: GPSL FIght String

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-25 22:10:54 UTC
From: Mike Manes
Topic: 3153 Message: 3153

Thanks, Brek

Just digging into my accumulated email after 6 days in Berlin. So
not sure if you passed this info to Roger KC0MWM or not - he's cc'ed
on this reply.

And those freqs shouldn't be a issue for the EOSS flight string.

73 de Mike W5VSI

Brek Brixius wrote:
> Balloons Up Near Space (BUNS). :)
>
> BTW - Thanks in advance to you and the EOSS crew for the assistance at
> GPSL 2007 and helping make my dream come true.
>
> Regarding your questions about my hardware. The microtrack is preset to
> 144.390mhz and can't be adjusted. If I remember correctly (been a while
> since I have been in the setups) it configures the same as a Tiny Track
> III. The APRS will identify as KC0YOE-11
>
> My CW beacon is a Microhunt on 146.565mhz (also not adjustable). The
> beacon is on for 30 seconds / off for 30 seconds. It sends MOE (four or
> five times) then my call sign.
>
> Brek - KC0YOE
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Brek,
>
> OK - wasn't sure ... now, BUNS stands for ...?
>
> 73 de Mike W5VSI
>
> Brek Brixius wrote:
> > I might not have got Mike's reply to my email w/ similar info.
> The last
> > thing I remember seeing in my email was Mike's message that if
> Brek is
> > BUNS then yes, we are teaming up.
> >
> > Was there more?
> >
> > By the way, BUNS is me (Brek) and my wife who is also a licensed ham
> > (KC0YOF).

> >
> > Brek - KC0YOE
> >
> > */Mike Manes /* wrote:
> >
> > Roger, Roger :=}
> > See my reply to Brek's email w/ similar info.
> > 73 de Mike W5VSI
> >
> > Roger Hammond wrote:
> > > Brek,
> > >
> > > I'm a little clearer on what's going on now, thanks. I'll copy
> > Mike on
> > > this so he's a aware of the situation. I may be able to round up
> > some
> > > experienced help to give you a hand with filling, etc.
> > >
> > > Thanks,
> > >
> > > Rog KCØMWM
> > >
> > > -----Original Message-----
> > > *From:* Brek Brixius [mailto:gofly2007@...]
> > > *Sent:* Wednesday, May 16, 2007 3:04 PM
> > > *To:* Roger Hammond
> > > *Subject:* RE: GPSL Flght String
> > >
> > > Sorry for all the confusion. My understanding is that EOSS was
> > > willing to carry a 1 pound module for me. That contains a camera
> > > and a Logtag and weighs 1 pound. That is all I wanted to put on the
> > > EOSS flight string. I can provide dimensions if they need as well.
> > >
> > > I was still hoping to fly my own 1200g balloon with the Microtrack
> > > APRS rockbound on 144.39 and the Microhunt rockbound (taking
> > > rockbound to mean can't change frequency) on 146.565. The Microhunt
> > > is on for 30 seconds / off for 30 seconds. If I am ready to fly on
> > > the day then the BUNS balloon would carry a single module with a
> > > camera, Microtrack, Microhunt, Garmin Etrex and one or two timed
> > > cutdown units with total weight of the payload and recovery system
> > > around 4 pounds.
> > >
> > > And folks may wonder why I wouldn't just add the one pound camera
> > > module to my own balloon? The idea was that because this is my
> > > first flight that If I loose it, at least I am pretty sure to get
> > > the camera back from the EOSS flight. At least I wouldn't come up
> > > empty handed.
> > >
> > > I did order a new 1200g balloon from Scientific Sales and have paid
> > > for a tank of gas. If EOSS wanted to team up and add a second

> > > flight with my balloon and gas, my payload and whatever they
> want to
> > > tack on - I'm willing to do that as well. I would be happy to have
> > > some help at launch if they have manpower available.
> > >
> > > Brek - KC0YOE
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > >
> > > */Roger Hammond /* wrote:
> > >
> > > I've got the most recent payload plan from EOSS, with mini video
> > > camera and
> > > the deletion of the ATV module.
> > > I sort of assumed that EOSS and BUNS were teaming up. Let me
> > > know if that
> > > isn't true. I'm waiting to hear from two groups so that I can
> > > get the time
> > > slotting assigned.
> > >
> > > Rog
> > >
> > >
> > >
> > > -----Original Message-----
> > > From: Mike Manes [mailto:manes@...]
> > > Sent: Tuesday, May 15, 2007 4:06 PM
> > > To: Nick Hanks; Brek Brixius KC0YOE; Roger Hammond KC0MWM
> > > Subject: Re: GPSL Flght String
> > >
> > >
> > > Hi Guys,
> > >
> > > I'm just the middle man here. I think Brek just wants to fly his
> > > camera
> > > module, but I don't have a weight yet. And Brek did mention that
> > > he has an
> > > APRS module, and we haven't discussed much about flying it at
> > > GPSL. But if
> > > he does, then it'll be on 144.39 as KC0YOE-11 with slots at
> > > wherever Roger
> > > assigns it.
> > >
> > > A more important reason for my having held off on a final plan
> > > is that the

> > > only 1200 gm balloon that I found at Merle's place was over 10
> > > years old - a
> > > refugee from Norm's stash at U Wyo. I just learned this AM that
> > > Paul at
> > > Kaymont does have KCI1200's in stock at $60/each - so I'm gonna
> > > order 2 x
> > > for GPSL today plus the gas to fill 'em from Roger.
> > >
> > > I'd order more, but the EOSS checking account is getting pretty
> > > slim since I
> > > haven't yet figured out how to move Colo SGC's payment for
> > > 116/117 to our
> > > PayPal account over to checking yet.
> > >
> > > Brek: Pls reply All with the weight, freq, power, etc info for your
> > > payload(s) needed for the EOSS GPSL payload plan.
> > >
> > > 73 de Mike W5VSI
> > >
> > > Nick Hanks wrote:
> > > > Mike,
> > > > >
> > > > > I probably need to get an email off to Rodger in Grand Island
> > > telling
> > > > > him we've changed our payload string. So the ATV is out, the
> > > crossband,
> > > > > B-Lan test from K0SCC, and a payload from Brek (KC0YOE) are
> > > in. What's
> > > > > the freq for Brek's payload? I think I missed that in the
> > > traffic.
> > > > >
> > > > > Nick
> > > > >
> > > >
> > > > --
> > > > Mike Manes manes@... Tel: 303-979-4899
> > > > "Things should be made as simple as possible, but not more so."
> > > > A. Einstein
> > > >
> > > >
> > > >
> > > >
> > > >
> > > >
> > >
> > > --
> > > > Looking for a deal? Find great prices on flights and hotels
> > > >
> > > > with Yahoo! FareChase.
> > >
> > > --

> > Mike Manes manes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so." A.
> > Einstein
> >
> >
> >
> >
> > _____
> > Do You Yahoo!?
> > Tired of spam? Yahoo! Mail has the best spam protection around
> > http://mail.yahoo.com
> >
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
>
>
> ---
> Get the free Yahoo! toolbar
> <http://us.rd.yahoo.com/evt=48226/*http://new.toolbar.yahoo.com/toolbar/features/norton/
index.php>
> and rest assured with the added security of spyware protection.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3154. Ed Yost - A ballooning legend dies

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-29 21:17:56 UTC
From: Luis Eduardo Pacheco
Topic: 3154 Message: 3154
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3155. Last chance for Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 00:32:34 UTC
From: Roger Hammond
Topic: 3155 Message: 3155

My local dealer does not stock T size cylinders. They have to be ordered ahead of time so I need to get the order placed soon. They stock the K size, but not in large quantities. All that being said, if you want to by Helium at the GPSL 2007 price of $40 / K or $50 / T, I need to have the money in hand very soon. The superlaunch website has the form along with a deadline of May 31, 2007 to get the order and the payment to me. I'll extend that to this following Monday, June 4. If I don't have your check or money order to me by then, I'll assume your bringing your own helium or acquiring it on your own.

I've received orders and payment from the following group(s):

BUNS - 1 T
Nick Stich - 1 T
EOSS - 2 Ts
BASE - 2 Ts
NearSys - 1 T
EOSRed - 1 K
NSTAR - 1 T
ORB - 1 K

73 de Roger KCØMWM
rahammond@...

3156. RE: [GPSL] Last chance for Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 00:40:33 UTC
From: Roger Hammond
Topic: 3155 Message: 3156

...I guess I should have proof-read. It should read:
if you want to BUY helium...perhaps purchase would have been a better choice of words.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Roger Hammond
Sent: Wednesday, May 30, 2007 7:33 PM
To: GPSL list
Subject: [GPSL] Last chance for Helium

My local dealer does not stock T size cylinders. They have to be ordered ahead of time so I need to get the order placed soon. They stock the K size, but not in large quantities. All that being said, if you want to by Helium at the GPSL 2007 price of $40 / K or $50 / T, I need to have the money in hand very soon. The superlaunch website has the form along with a deadline of May 31, 2007 to get the order and the payment to me. I'll extend that to this following Monday, June 4. If I don't have your check or money order to me by then, I'll assume your bringing your own helium or acquiring it on your own.

I've received orders and payment from the following group(s):

BUNS - 1 T
Nick Stich - 1 T
EOSS - 2 Ts
BASE - 2 Ts
NearSys - 1 T
EOSRed - 1 K
NSTAR - 1 T
ORB - 1 K

73 de Roger KCØMWM
rahammond@charter. <mailto:rahammond@charter.net> net

3157. Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 03:08:58 UTC
From: Brek Brixius
Topic: 3157 Message: 3157

There is an interesting item on ebay at the moment. #190117453841

It is an old balloon module made of foil covered cardboard (according to the ad.)

The second camera package I'm putting together for GPSL 2007 - the one for the BUNS balloon is a foil covered foam cooler. I have been debating if I want to leave the foil on or not. It will reflect sun light well. Might help in spotting it on the ground.

Anybody had any concerns about foil on the exterior of a package?

Brek - KC0YOE

Yahoo! oneSearch: Finally, mobile search that gives answers, not web links.

3158. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 03:16:52 UTC
From: Mark Conner
Topic: 3157 Message: 3158

Just make sure that the GPS you use is on the outside of the foil. It
may provide more RF shielding for the contents, which is usually a
good thing.

73 de Mark N9XTN

On 5/30/07, Brek Brixius <gofly2007@...> wrote:
>
>
>
> There is an interesting item on ebay at the moment. #190117453841
>
> It is an old balloon module made of foil covered cardboard (according to the ad.)
>
> The second camera package I'm putting together for GPSL 2007 - the one for the BUNS balloon is a foil covered foam cooler. I have been debating if I want to leave the foil on or not. It will reflect sun light well. Might help in spotting it on the ground.
>
> Anybody had any concerns about foil on the exterior of a package?
>
> Brek - KC0YOE
>
> _____

3159. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 13:33:25 UTC
From: PAUL VERHAGE
Topic: 3157 Message: 3159
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3160. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 13:35:07 UTC
From: PAUL VERHAGE
Topic: 3157 Message: 3160

I can second that. Several years ago I was part of a GPS experiment. Over a foot of Styrofoam wouldn't block the signal, but one sheet of aluminized Mylar did.

Paul

>>> "Mark Conner" <mconner1@...> 5/30/2007 9:16 PM >>>
Just make sure that the GPS you use is on the outside of the foil. It
may provide more RF shielding for the contents, which is usually a
good thing.

73 de Mark N9XTN

On 5/30/07, Brek Brixius <gofly2007@...> wrote:
>
>
>
> There is an interesting item on ebay at the moment. #190117453841
>
> It is an old balloon module made of foil covered cardboard (according to the ad.)
>
> The second camera package I'm putting together for GPSL 2007 - the one for the BUNS balloon is a foil covered foam cooler. I have been debating if I want to leave the foil on or not. It will reflect sun light well. Might help in spotting it on the ground.
>
> Anybody had any concerns about foil on the exterior of a package?
>
> Brek - KC0YOE
>
> ~-------------------------------~

Yahoo! Groups Links

3161. UTARC UX-14 balloon launch 6/9/07

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 14:02:07 UTC
From: David Hoffman
Topic: 3161 Message: 3161
Attachments: 1 described; binary payloads are missing from this source WARC

FOR IMMEDIATE RELEASE
May 29, 2007

Who: University of Tennessee Amateur Radio Club (UTARC) and the Radio Amateur Club of Knoxville (RACK)
What: UTARC UX-14 High-Altitude Balloon Launch
When: Saturday, June 9, 2007 - Time: 9:30 AM Eastern Time
Where: Knoxville Hamfest and Electronics Exposition, Kerbela Temple, 315 Mimosa Avenue Knoxville, TN
Why: Demonstration of technology used to launch and recover high-altitude balloons as well as to videotape flight for replay later at the Hamfest if recovered in time.

The University of Tennessee Amateur Radio Club (UTARC) in cooperation with the Radio Amateur Club of Knoxville (RACK) will conduct a high-altitude balloon launch on Saturday, June 9, 2007 during the 41st Annual RACK Hamfest at the Kerbela Temple in Knoxville, Tennessee. Launch is currently scheduled for 9:30 AM Eastern Time.

The payload, nicknamed ?Eye in the Sky? will contain a video camera that will record the entire flight from lift-off to landing and recovery. This payload is planned for return to the Hamfest in time for replay to the attendees.

Along with a video camera, a 2-meter transceiver and 70cm beacon will be placed on board for tracking in real-time. A GPS receiver will provide telemetry to the transceiver and to an APRS (Automated Position Reporting System) controller that will send coordinates back to ground stations working to intercept and recover the payload after its decent from altitudes exceeding 50,000 feet (weather and prevailing winds permitting).

ABOUT UTARC: The University of Tennessee Amateur Radio Club is celebrating it?s 60th year of operation. UTARC has been launching high-altitude balloons since May of 2005 and their missions have been featured in Make magazine, or publications and the tech web site Slashdot. This launch will be the 14th balloon launch for UTARC. Their balloon missions have taken them as high as 116,000 feet. The payload radio transmissions have been heard as far away as Vancouver, BC and the Caribbean. This year?s balloon launch will mark the 2nd year UTARC has launched from the Hamfest.

ABOUT RACK: The Radio Amateur Club of Knoxville is celebrating its 41st year of hosting the RACK Hamfest, an annual gathering of amateur radio operators and electronics enthusiasts to buy, sell, and trade amateur

radio equipment and participate in seminars dedicated to the amateur radio hobby. The Radio Amateur Club of Knoxville was founded in the 1950s and has served the residents of East Tennessee in times of emergency and public service during its years in operation.

ABOUT THE RACK HAMFEST: The 41st Annual RACK Hamfest and Computer Exposition will be held at the Kerbela Temple in South Knoxville near Baptist Hopsital. This year?s hamfest marks the 2nd consecutive year that the hamfest has been held at Kerbela Temple. Along with the hamfest, the Tennessee section of the American Radio Relay League (ARRL) will conduct its state convention at this year?s event. Various forums including demonstrations of satellite communications, astronomy, HF communications, and youth activities are scheduled.

More information on the web:
UTARC: http://www.utarc.org
RACK: http://w4bbb.org

For additional information, please contact Greg Williams, UTARC, at 865-588-9252; or David Bower, Hamfest Director, at 865-690-8360 (e-mail at d.bower@...)

# # #

David Hoffman - KE4FGW

3162. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 14:04:58 UTC
From: David Hoffman
Topic: 3157 Message: 3162

We made that mistake on one of the UTARC flights. We stuck the GPS in one
of those anti-static bags to keep the rain out.

David Hoffman - KE4FGW

> I can second that. Several years ago I was part of a GPS experiment.
> Over a foot of Styrofoam wouldn't block the signal, but one sheet of
> aluminized Mylar did.
>
> Paul
>
>>>> "Mark Conner" <mconner1@...> 5/30/2007 9:16 PM >>>
> Just make sure that the GPS you use is on the outside of the foil. It
> may provide more RF shielding for the contents, which is usually a
> good thing.
>
> 73 de Mark N9XTN
>

3163. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 17:47:59 UTC
From: Harry M
Topic: 3157 Message: 3163

My APRS capsule has always been covered by foil of some sort. I usually use Christmas wrapping paper or solar blankets. I use 3M-77 spray glue for an adhesive. The APRS capsule now has about 13 flights on it and the foil is still looking good. I also have other capsules covered the same. The foil has definatly aided in finding it on the ground and in trees. As mentioned in other replies, do not cover the GPS antenna with any of it. Ground test when in doubt!

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3164. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 19:54:33 UTC
From: Joe
Topic: 3157 Message: 3164
Attachments: 2 described; binary payloads are missing from this source WARC

Here at NSS we have ALWAYS covered the box in some sort of a foil. except as already stated, Don't cover the GPS antenna, or if it's a Video or imaging flight of some sort of course you don't want it there either.
but ours are always easy to spot.

Joe WB9SBD
Near Space Sciences

Brek Brixius wrote:

There is an interesting item on ebay at the moment. #190117453841

It is an old balloon module made of foil covered cardboard (according to the ad.)

The second camera package I'm putting together for GPSL 2007 - the one for the BUNS balloon is a foil covered foam cooler. I have been debating if I want to leave the foil on or not. It will reflect sun light well. Might help in spotting it on the ground.

Anybody had any concerns about foil on the exterior of a package?

Brek - KC0YOE

Yahoo! oneSearch: Finally, mobile search that gives answers (http://us.rd.yahoo.com/evt=48252/*http://mobile.yahoo.com/mobileweb/onesearch?refer=1ONXIC), not web links.

3165. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-05-31 23:37:10 UTC
From: Mike Manes
Topic: 3157 Message: 3165

Hi Berk,

I guess the answer depends on whether you need help from the sun in keeping your payload warm or not. If the foil is flat and smooth, then it will help its visibility on the ground only if it's reflecting an image that's in sharp contrast to it's surroundings. Depending on its orientation re your eye, it could simply reflect an image of its surroundings. DayGlo orange generally does that quite well on this side of the MS River :=}.

BTW, you may want to consider a sunshade for your camera - even good lenses with anti-reflective coatings can produce sun flair in your pix if the sun hits the lens. We made one out of foamcore sheet, painted flat black. Works OK.

73 de Mike W5VSI

Brek Brixius wrote:
> There is an interesting item on ebay at the moment. #190117453841
>
> It is an old balloon module made of foil covered cardboard (according to
> the ad.)
>
> The second camera package I'm putting together for GPSL 2007 - the one
> for the BUNS balloon is a foil covered foam cooler. I have been
> debating if I want to leave the foil on or not. It will reflect sun
> light well. Might help in spotting it on the ground.
>
> Anybody had any concerns about foil on the exterior of a package?
>
> Brek - KC0YOE
>
> ---
> Yahoo! oneSearch: Finally, mobile search that gives answers
> <http://us.rd.yahoo.com/evt=48252/*http://mobile.yahoo.com/mobileweb/onesearch?refer=1ONXIC>,
> not web links.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3166. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-01 00:06:22 UTC
From: Mike Manes
Topic: 3157 Message: 3166

Emissivity of Al varies quite a bit over the IR spectrum. At long IR, it
radiates (and absorbs) quite nicely. And common black anodized Al like
on heatsinks actually reflects near IR (1.3 uM) like crazy!

73 de Mike W5VSI

PAUL VERHAGE wrote:
> It may rip. From my experiments, black stays warmer than a silver
> mylar. That's a bit surprising since aluminum has a low emissivity.
>
> Paul
>
> >>> Brek Brixius <gofly2007@...> 5/30/2007 9:08 PM >>>
> There is an interesting item on ebay at the moment. #190117453841
>
> It is an old balloon module made of foil covered cardboard (according to
> the ad.)
>
> The second camera package I'm putting together for GPSL 2007 - the one
> for the BUNS balloon is a foil covered foam cooler. I have been
> debating if I want to leave the foil on or not. It will reflect sun
> light well. Might help in spotting it on the ground.
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> Anybody had any concerns about foil on the exterior of a package?
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> Brek - KC0YOE
>
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> not web links.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3167. Re: [GPSL] Foiled Again

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 16:06:45 UTC
From: Brek Brixius
Topic: 3157 Message: 3167

Thanks everyone for your comments on foil. I have decided to leave the foil on the camera module for the BUNS balloon. It is attached with hot glue and is not a smooth surface. Spray glue may have worked better but the foil is already on. It is not as nice looking as the NSS module (thanks for the photos) :)

My foil covered camera module contains two cameras. One of the cameras is set very deep in the foam. I had to carve out the foam to open clear the camera's field of view. I am hoping that the foam hole that the camera looks through will serve as sun shade enough. I may need to add a sun shade to the other camera that does not set as deep.

My APRS and Beacon are in a separate radio module. Right now, the radio module is in a nice looking white foam cooler. I am thinking about painting the radio module black in hopes of keeping it warmer.

Thanks again to everyone.
Brek - KC0YOE

Mike Manes <manes@...> wrote:
Emissivity of Al varies quite a bit over the IR spectrum. At long IR, it
radiates (and absorbs) quite nicely. And common black anodized Al like
on heatsinks actually reflects near IR (1.3 uM) like crazy!

73 de Mike W5VSI

PAUL VERHAGE wrote:
> It may rip. From my experiments, black stays warmer than a silver
> mylar. That's a bit surprising since aluminum has a low emissivity.
>
> Paul
>
> >>> Brek Brixius <gofly2007@...> 5/30/2007 9:08 PM >>>
> There is an interesting item on ebay at the moment. #190117453841
>
> It is an old balloon module made of foil covered cardboard (according to
> the ad.)
>
> The second camera package I'm putting together for GPSL 2007 - the one
> for the BUNS balloon is a foil covered foam cooler. I have been
> debating if I want to leave the foil on or not. It will reflect sun
> light well. Might help in spotting it on the ground.
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> Anybody had any concerns about foil on the exterior of a package?
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> Brek - KC0YOE
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Mike Manes manes@... Tel: 303-979-4899
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3168. Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 17:13:11 UTC
From: Brek Brixius
Topic: 3168 Message: 3168

For some time I have been working on a cutdown unit for the BUNS balloon. It is a time delayed cutdown and consists of a 555 timer that drives a 4017b counter/divider in divider mode which drives a second 4017b in counter mode. The purpose of using two 4017b ICs is to produce a long time delay with a relatively small capacitor in the 555 timing circuit.

The next to last output of the second 4017b is tied to the burner circuit which is essentially the same as the FTU described in Paul's book. That lights the nichrome coil and severs the cord to the balloon. The final ouput of the second 4017b is tied to it's own clock inhibit which prevents the burner from lighting more than once.

The timing on my cutdown is fixed at 81 minutes. I chose that time delay because I would like to cut away about 80,000 feet and am hoping to get about 1000 to 1100 feet / minute ascent rate. The reason I don't want to fly to burst is, I would like to be free of the balloon before burst to avoid post burst chaos. I would also like to limit the time in the cold in hopes that it will improve the odds of the batteries/electronics remaining operational. I also like the idea of knowing when the descent phase will begin. Finally, If the balloon is not up as long, hopefully the recovery won't be as far down range as it would if I flew until burst.

The cutdown has been performing well in tests. It runs for 81 minutes 19 seconds and switches on the coil for about 1 minute. The coil then shuts down and remains off. The cutdown has severed 100 lb dacron in about 5 seconds and 145 lb nylon in 8 seconds.

What has concerned me though is that in tests, the cord has produced a flame and a molten glob of dacron/nylon on the earthward side of the cord. The flame burned on after the coil had shut down. In fact the flame burned long enough that my wife decided to step up and blow out the flame.

I should add that the cutdown is packaged in a certafoam block with good clearance for the burner. We did have the lid off to observe the tests.

After brainstorming with my wife some ways we might avoid having the flame, we decided to try some 3M shrink tube - shrunk to fit snuggly on the portion of the 145 lb nylon that runs through the burner coil.

This seemed to work well. When the coil started to glow, the shrink tube produced a lot of smoke but no visible flame. We could see glowing embers inside the coil but very shortly afer the coil stopped glowing, so did the embers. Also the smoke stopped when the coil shut down. There was a black residue left inside the coil which I thought might be difficult to clean out but turned out it wasn't. It crumbled to a fine black powder and was easily removed. The 145 lb. cord took approx. 4 seconds longer to sever with the shrink tube cover. Separation was as effective as without the shrink tube.

Brek - KC0YOE

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3169. RE: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 17:23:28 UTC
From: Roger Hammond
Topic: 3168 Message: 3169

Brek,

At 80,000 ft there won't be enough O2 to support a flame, so that shouldn't be a problem.

Roger KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Sunday, June 03, 2007 12:13 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] Smoking Cutdown

For some time I have been working on a cutdown unit for the BUNS balloon. It is a time delayed cutdown and consists of a 555 timer that drives a 4017b counter/divider in divider mode which drives a second 4017b in counter mode. The purpose of using two 4017b ICs is to produce a long time delay with a relatively small capacitor in the 555 timing circuit.

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The timing on my cutdown is fixed at 81 minutes. I chose that time delay because I would like to cut away about 80,000 feet and am hoping to get about 1000 to 1100 feet / minute ascent rate. The reason I don't want to fly to burst is, I would like to be free of the balloon before burst to avoid post burst chaos. I would also like to limit the time in the cold in hopes that it will improve the odds of the batteries/electronics remaining operational. I also like the idea of knowing when the descent phase will begin. Finally, If the balloon is not up as long, hopefully the recovery won't be as far down range as it would if I flew until burst.

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Brek - KC0YOE

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3170. RE: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 17:54:28 UTC
From: Brek Brixius
Topic: 3168 Message: 3170

We considered that there isn't much Oxygen up there. We are just concerned for the case where it might get hung up in a tree or have an early burst for some reason and not be at 80,000 ft. when it is ready to cut.

The other thing my wife was concerned about is that the cutdown itself weighs 0.7 lbs packaged in a 6"x6"x8" certafoam block. I am wanting to position it 15 feet above the parachute and tethered to the chute (I want the cutdown back). My wife is concerned that the cutdown unit would fall on and collapse the chute. I have read that the long line between the balloon and the parachute is to allow the burst balloon to fall over the side of the parachute to avoid collapsing the chue. The way I figure, we are either dragging back a 0.7 lb cutdown or a heavier burst balloon.

What do you think?

Thanks Roger.

Brek - KC0YOE

Roger Hammond <rahammond@...> wrote:
Brek,

At 80,000 ft there won't be enough O2 to support a flame, so that shouldn't be a problem.

Roger KC?MWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Sunday, June 03, 2007 12:13 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] Smoking Cutdown

For some time I have been working on a cutdown unit for the BUNS balloon. It is a time delayed cutdown and consists of a 555 timer that drives a 4017b counter/divider in divider mode which drives a second 4017b in counter mode. The purpose of using two 4017b ICs is to produce a long time delay with a relatively small capacitor in the 555 timing circuit.

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Brek - KC0YOE

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3171. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 18:13:57 UTC
From: Joe
Topic: 3168 Message: 3171

Brek Brixius wrote:

>
> The timing on my cutdown is fixed at 81 minutes. I chose that time
> delay because I would like to cut away about 80,000 feet and am hoping
> to get about 1000 to 1100 feet / minute ascent rate. The reason I
> don't want to fly to burst is, I would like to be free of the balloon
> before burst to avoid post burst chaos.

I would think that you would still have the chaos, the chaos is not so
much the balloon popping but the lack of atmosphere to have the chute do
much of anything at all.

> I would also like to limit the time in the cold in hopes that it
> will improve the odds of the batteries/electronics remaining
> operational. I also like the idea of knowing when the descent phase
> will begin. Finally, If the balloon is not up as long, hopefully
> the recovery won't be as far down range as it would if I flew until burst.

how far down range depends more on the winds I.E. "time of the year"
than it does with the length of the flight. We've have had flights that
last over 3 hours and go to over 100,000 feet and land 10 miles away.
and then we've had flights that lasted only a hour or so,, got to
30,000 feet or so,, and traveled over 100 miles away.

>
>
>
> What has concerned me though is that in tests, the cord has produced a
> flame and a molten glob of dacron/nylon on the earthward side of
> the cord. The flame burned on after the coil had shut down. In fact
> the flame burned long enough that my wife decided to step up and blow
> out the flame.

no oxygen at that altitude, or surely not enough to support a flame,
never mind the wind it will shortly be having will put it out even if it
did start
Joe WB9SBD & Near Space Sciences

>
>
> Brek - KC0YOE
>

3172. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 19:00:56 UTC
From: Art
Topic: 3168 Message: 3172

I can't help you with the cut down issue you mention.

But, I strongly suggest that you do not use an RC network to determine the delay before actuating the cut down sequence.

R and C have very poor thermal stability. I don't know how well insulated against the outside temperature your payload will be. But, even the best cap is going to have a very big change in capacitive value at the temperatures the balloons payload will reach, even if it is insulated.

If you have accounted for the change in the value of your timing C, then you are fine. But, if you use a disc ceramic cap, you're probably in trouble though! I used a disc ceramic cap in a keyer clock circuit years ago and the variation in the keyers speed was horrible. I learned the hard way....but, I didn't risk losing a balloons payload as you do.

If you must use a capacitor, choose a mylar cap or any of the caps that are designed for use as timing caps.

Enjoy.

Art

3173. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 20:19:18 UTC
From: Joe
Topic: 3168 Message: 3173

As well as the resistor also. we had a flight that used a resistor for a timing portion of a message. and because of the cold it went into hyper speed,, soo fast no one could copy the code, computers were used to read the message and at one point it was like doing 70 WPM!

Joe NSS

Art wrote:

>I can't help you with the cut down issue you mention.
>
>But, I strongly suggest that you do not use an RC network to
>determine the delay before actuating the cut down sequence.
>
>R and C have very poor thermal stability. I don't know how well
>insulated against the outside temperature your payload will be. But,
>even the best cap is going to have a very big change in capacitive
>value at the temperatures the balloons payload will reach, even if it
>is insulated.
>
>If you have accounted for the change in the value of your timing C,
>then you are fine. But, if you use a disc ceramic cap, you're
>probably in trouble though! I used a disc ceramic cap in a keyer
>clock circuit years ago and the variation in the keyers speed was
>horrible. I learned the hard way....but, I didn't risk losing a
>balloons payload as you do.
>
>If you must use a capacitor, choose a mylar cap or any of the caps
>that are designed for use as timing caps.
>
>Enjoy.
>
>Art
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>Yahoo! Groups Links
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3174. GPSL t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-03 21:33:30 UTC
From: Mark Conner
Topic: 2315 Message: 3174

I'll be working on a GPSL 2007 shirt shortly - May has been a rather busy month. I'll be looking over the photos I have here, but if anyone has a high-quality digital photo you'd like to have considered for the back of the shirt, e-mail it to me directly at mconner1@.... I'd like to have one either from a payload at high altitude, or of a balloon or balloons at or shortly after launch. I'll need it within the next week or so in order to get the design finished so people can order shirts in time.

Ordering will be through Zazzle as it was last year. For those who don't want the headache of working the interface to customize the shirt with your callsign (it's not that hard, though), I'll be willing to do that, have the shirt shipped to my home and will bring it to GPSL on Friday morning. You'll need to order shirts about 7-10 days before you want it in hand.

Ballpark cost on the T-shirts is about $20 for the higher quality shirt. I recommend them as the printing is longer-lasting and more clear. A cheaper shirt can be had for around $14. Polos, kids' shirts, sweatshirts can also be made from the basic design.

E-mail me if you have any questions about shirts.

73 de Mark N9XTN

3175. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 03:01:05 UTC
From: Brek Brixius
Topic: 3168 Message: 3175

What would you use instead of the resistor and capacitor?

The cap I am using is a surface mount tantalum. The package is well insulated but, I have a hard time even imagining the degree of cold up there.

My cameras use the same timing circuit (though cheaper caps). Maybe they won't work either. If there is a good alternative, I would be interested. :)

If the cutdown doesn't perform the same as it does here on the ground, there are two possibilities as I see it: 1. The cutdown cuts early and I don't achieve my objective to take a picture of the curvature of the earth. But if the cutdown timer didn't work, the cameras might not eirther. 2. The cutdown cuts late. If it is real late, the balloon will still burst. I'm just up for longer than I figured on.

I guess I don't see a cutdown failure as catastrophic. Still, it would be nice to have some idea how it would perform in the cold. I can't duplicate the conditions up there but, I can remove it from the insulation and pop it in my freezer and see what it does there. If it changes, in my freezer I would guess it would change more on an actual flight.

If the cutdown doesn't do well in the freezer, I'll scratch it from the payload list.

Remember though, this is my first flight. If I scratched everything I wasn't sure of, I'd be flying a balloon with a string. :D

Thank you for your thoughts. I really appreciate hearing them.

Brek - KC0YOE

Art <KY1K@...> wrote:
I can't help you with the cut down issue you mention.

But, I strongly suggest that you do not use an RC network to
determine the delay before actuating the cut down sequence.

R and C have very poor thermal stability. I don't know how well
insulated against the outside temperature your payload will be. But,
even the best cap is going to have a very big change in capacitive
value at the temperatures the balloons payload will reach, even if it
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then you are fine. But, if you use a disc ceramic cap, you're
probably in trouble though! I used a disc ceramic cap in a keyer
clock circuit years ago and the variation in the keyers speed was
horrible. I learned the hard way....but, I didn't risk losing a
balloons payload as you do.

If you must use a capacitor, choose a mylar cap or any of the caps
that are designed for use as timing caps.

Enjoy.

Art

Don't be flakey. Get Yahoo! Mail for Mobile and
always stay connected to friends.

3176. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 04:28:53 UTC
From: Art
Topic: 3168 Message: 3176

I'd forget tantalum and electrolytic, they have bad tempco and
tolerances are generally -5 percent +40 percent. I'm not sure the
electrolyte would be stable at reduced pressure found in the upper
atmosphere. I don't believe electrolytics and tantalums are
hermetically sealed due to the nature of the beasts.

Any disk ceramic or ceramic 'anything' is probably not good.

I'd choose any type of cap made for a timing circuit or for an active
audio filter...Mylar is probably good and polypropylene is good.
Silver mica caps are good, if you can afford them-they're very pricey.

If you are on a tight budget and/or don't want to order a new cap
from a vendor, taking a silver mica cap off a junk pcb will be fine.

If you're writing your own code and have room left over in your PIC,
using the PIC as a timer is hard to beat. Nested (multiple) loops in
software easily obtain large delays with if you don't use a PIC that
has built in timer function(s). As long as your PIC has a quartz
crystal timebase, it will work-you can handle 200 ppm just fine!

If you test it in your freezer (at zero to 5 below zero F) and don't
get more than a 5 percent variance, you're probably fine too. Don't
get paranoid, but do beware::>

Maybe others have some ideas and will comment.

Hey Brek, good luck with the first launch!

Art

>What would you use instead of the resistor and capacitor?
>
>The cap I am using is a surface mount tantalum. The package is well
>insulated but, I have a hard time even imagining the degree of cold up there.
>
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>late, the balloon will still burst. I'm just up for longer than I figured on.
>

>I guess I don't see a cutdown failure as catastrophic. Still, it
>would be nice to have some idea how it would perform in the cold. I
>can't duplicate the conditions up there but, I can remove it from
>the insulation and pop it in my freezer and see what it does
>there. If it changes, in my freezer I would guess it would change
>more on an actual flight.
>
>If the cutdown doesn't do well in the freezer, I'll scratch it from
>the payload list.
>
>Remember though, this is my first flight. If I scratched everything
>I wasn't sure of, I'd be flying a balloon with a string. :D
>
>Thank you for your thoughts. I really appreciate hearing them.
>
>Brek - KC0YOE
>
>
>

3177. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 05:41:54 UTC
From: Brek Brixius
Topic: 3168 Message: 3177

Well I did the test in the freezer and here is what happened. I put the battery in insulation. I left the cutdown pcb (includes everything but the battery) outside the insulation. I put a log tag temperature recorder right next to the pcb. The log tag showed the temperature in my freezer at about 2.5 degrees F. It raised slightly when I would peek every 20 mins or so but averaged about 2.5 F.

At room temperature the cutdown burner switched on at 81 minutes 19 seconds on several consecutive tests. At 2.5 degrees F the cutdown burner switched on at 85 minutes 1 second.

So it runs a little longer.

If I could predict the actual performance, I could switch the cutdown on and hold the balloon for the needed time.

Alas, I am not a PIC programmer. I have often thought about trying it but have not yet made the leap.

Thanks again. I'm glad I did the freezer test and I wouldn't have if you hadn't suggested the effects of temperature on the resister / capacitor. :)

Brek - KC0YOE

Art <KY1K@...> wrote:
I'd forget tantalum and electrolytic, they have bad tempco and
tolerances are generally -5 percent +40 percent. I'm not sure the
electrolyte would be stable at reduced pressure found in the upper
atmosphere. I don't believe electrolytics and tantalums are
hermetically sealed due to the nature of the beasts.

Any disk ceramic or ceramic 'anything' is probably not good.

I'd choose any type of cap made for a timing circuit or for an active
audio filter...Mylar is probably good and polypropylene is good.
Silver mica caps are good, if you can afford them-they're very pricey.

If you are on a tight budget and/or don't want to order a new cap
from a vendor, taking a silver mica cap off a junk pcb will be fine.

If you're writing your own code and have room left over in your PIC,
using the PIC as a timer is hard to beat. Nested (multiple) loops in
software easily obtain large delays with if you don't use a PIC that
has built in timer function(s). As long as your PIC has a quartz
crystal timebase, it will work-you can handle 200 ppm just fine!

If you test it in your freezer (at zero to 5 below zero F) and don't
get more than a 5 percent variance, you're probably fine too. Don't
get paranoid, but do beware::>

Maybe others have some ideas and will comment.

Hey Brek, good luck with the first launch!

Art

>What would you use instead of the resistor and capacitor?
>
>The cap I am using is a surface mount tantalum. The package is well
>insulated but, I have a hard time even imagining the degree of cold up there.
>
>My cameras use the same timing circuit (though cheaper caps). Maybe
>they won't work either. If there is a good alternative, I would be
>interested. :)
>
>If the cutdown doesn't perform the same as it does here on the
>ground, there are two possibilities as I see it: 1. The cutdown
>cuts early and I don't achieve my objective to take a picture of the
>curvature of the earth. But if the cutdown timer didn't work, the
>cameras might not eirther. 2. The cutdown cuts late. If it is real
>late, the balloon will still burst. I'm just up for longer than I figured on.
>
>I guess I don't see a cutdown failure as catastrophic. Still, it
>would be nice to have some idea how it would perform in the cold. I
>can't duplicate the conditions up there but, I can remove it from
>the insulation and pop it in my freezer and see what it does
>there. If it changes, in my freezer I would guess it would change
>more on an actual flight.
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>the payload list.
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>Remember though, this is my first flight. If I scratched everything
>I wasn't sure of, I'd be flying a balloon with a string. :D
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>Thank you for your thoughts. I really appreciate hearing them.
>
>Brek - KC0YOE
>
>
>

Fussy? Opinionated? Impossible to please? Perfect. Join Yahoo!'s user panel and lay it on us.

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3178. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 06:52:06 UTC
From: wb8elk@aol.com
Topic: 3168 Message: 3178

The problem I can see besides the timing components shifting with cold temperatures is if your ascent rate is not exactly 1000 ft/min....even the best laid plans to achieve that rate will vary somewhat.....a more reliable way to have your balloon actually cut down at 80,000 feet or any other altitude you choose would be to use a method used by Norm Kjome.... the aneroid bellows circuit mentioned earlier on another post....these are available cheaply on eBay under "radiosonde"....the old VIZ style will work fine....basically the aneroid bellows is mounted on a U-shaped bracket with a microswitch that closes when the bellows hits it at altitude....you adjust the bellows with a screw mount.....but that does require a bell jar and vacuum pump to adjust it.....another way to do it without needing a bell jar and vacuum pump is to modify the sliding switch contacts on the original VIZ radiosonde such that the contact is closed when it hits the proper switch position....they usually have a calibration chart of pressure vs switch position on those older sondes and this method has worked for me very well in the past.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3179. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 13:27:00 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3179
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3180. Re: [GPSL] GPSL t-shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 13:32:15 UTC
From: PAUL VERHAGE
Topic: 2315 Message: 3180

Thanks for doing this. I'll order one when it's ready and have it sent to my house.

Paul

>>> "Mark Conner" <mconner1@...> 6/3/2007 3:33 PM >>>
I'll be working on a GPSL 2007 shirt shortly - May has been a rather
busy month. I'll be looking over the photos I have here, but if
anyone has a high-quality digital photo you'd like to have considered
for the back of the shirt, e-mail it to me directly at
mconner1@.... I'd like to have one either from a payload at
high altitude, or of a balloon or balloons at or shortly after launch.
I'll need it within the next week or so in order to get the design
finished so people can order shirts in time.

Ordering will be through Zazzle as it was last year. For those who
don't want the headache of working the interface to customize the
shirt with your callsign (it's not that hard, though), I'll be willing
to do that, have the shirt shipped to my home and will bring it to
GPSL on Friday morning. You'll need to order shirts about 7-10 days
before you want it in hand.

Ballpark cost on the T-shirts is about $20 for the higher quality
shirt. I recommend them as the printing is longer-lasting and more
clear. A cheaper shirt can be had for around $14. Polos, kids'
shirts, sweatshirts can also be made from the basic design.

E-mail me if you have any questions about shirts.

73 de Mark N9XTN

Yahoo! Groups Links

3181. RE: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 13:28:57 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3181
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3182. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 13:37:15 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3182
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3183. PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 14:27:21 UTC
From: mconner1@gmail.com
Topic: 3183 Message: 3183

PICAXE website:
http://www.rev-ed.co.uk/picaxe/

The 8-pin versions are $4. Nice alternative to PICs if you don't want to bother with getting/making a PIC programmer. About 80 lines of BASIC code available for use (shared with data memory). The resonators are internal so all you have to do is hook up +5V, ground, serial in/out for programming, and whatever sensor you want.

Looks extremely simple and powerful for non-complex tasks like timing circuits, making the barometric cutdown Paul mentioned, etc. You could make a combination time/baro cutdown - have it cut down at a predetermined pressure, or after X amount of time (in case your ascent rate is way too low and you want to avoid an unintentional long-duration flight). The most expensive part of the whole thing is probably the pressure sensor (about $30).

Total parts are probably the PICAXE, MOSFET to switch the nichrome on, pressure sensor, and batteries. You might include a small beeper to go off before the cutdown is engaged so that if it was turned on way before launch you'd have a chance to reset the cutdown rather than have it release your balloon while you're still holding the payloads. The beeper would also be a nice feature to verify correct operation (e.g., beep every 10 sec in normal mode, every 1 sec as a cutdown warning).

Might also want power to the PICAXE/sensors be isolated from the cutdown power (separate battery) so that you don't have a brownout when tripping the nichrome.

Sure wish I had the time to mess with this.

73 de Mark N9XTN

3184. Re: [GPSL] PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 14:40:49 UTC
From: PAUL VERHAGE
Topic: 3183 Message: 3184

One of the benefits of being a teacher is that I have the time to mess around with this stuff. Your idea is along the lines of what I was thinking. I'll add a pull pin to begin the timer, that way the count down doesn't begin until you're ready to launch.

Paul

>>> <mconner1@...> 6/4/2007 8:27 AM >>>
PICAXE website:
http://www.rev (http://www.rev/)-ed.co.uk/picaxe/

The 8-pin versions are $4. Nice alternative to PICs if you don't want to bother with getting/making a PIC programmer. About 80 lines of BASIC code available for use (shared with data memory). The resonators are internal so all you have to do is hook up +5V, ground, serial in/out for programming, and whatever sensor you want.

Looks extremely simple and powerful for non-complex tasks like timing circuits, making the barometric cutdown Paul mentioned, etc. You could make a combination time/baro cutdown - have it cut down at a predetermined pressure, or after X amount of time (in case your ascent rate is way too low and you want to avoid an unintentional long-duration flight). The most expensive part of the whole thing is probably the pressure sensor (about $30).

Total parts are probably the PICAXE, MOSFET to switch the nichrome on, pressure sensor, and batteries. You might include a small beeper to go off before the cutdown is engaged so that if it was turned on way before launch you'd have a chance to reset the cutdown rather than have it release your balloon while you're still holding the payloads. The beeper would also be a nice feature to verify correct operation (e.g., beep every 10 sec in normal mode, every 1 sec as a cutdown warning).

Might also want power to the PICAXE/sensors be isolated from the cutdown power (separate battery) so that you don't have a brownout when tripping the nichrome.

Sure wish I had the time to mess with this.

73 de Mark N9XTN

Yahoo! Groups Links

3185. Re: [GPSL] PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 14:56:18 UTC
From: mconner1@gmail.com
Topic: 3183 Message: 3185
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3186. Re: [GPSL] PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 16:02:12 UTC
From: PAUL VERHAGE
Topic: 3183 Message: 3186
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3187. Re: [GPSL] PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 21:05:33 UTC
From: wb8elk@aol.com
Topic: 3183 Message: 3187

One thing to note about solid state pressure sensors....I'd recommend using the conditioned and temperature compensated sensors that give you a 0 to 5V output...but even these have a calibration curve for temperatures outside of their calibrated range so watch for that....also many of them will not work well above 44,000 feet or so....The venerable MPX5100A by Motorola used to work great up to 99,000 feet but then they decided to cheapen their manufacturing process and now they don't work above 44,000 feet since they no longer work down to a pure vacuum....they didn't even modify their datasheets to reflect that change until a couple of years after making the change (early 90s), so I have a batch of them that still work and a batch that don't (only difference is the date of manufacture code)....so some testing might be in order....keep in mind also that as you go higher in altitude, the error of the sensor will be much greater since the voltage increment for each ADC count is now a significant fraction of near vacuum...so basically what would be a 100 foot error at sea level could be thousands of feet plus or minus at 90,000 feet......I've discovered that many existing pressure sensors by Sensym and the like are no longer in stock anywhere...they were bought out by Honeywell and my guess is that Honeywell is trying to weed out the Sensym line in preference of their own much more expensive line of transducers......part of the problem may also be presumably because of the RoHS mess as manufacturers try to make lead-free products.
If you look at Digikey under "Pressure Sensors" you'll see that there are lots of likely candidates for balloons but very few are actually in stock and only the terribly expensive ones seem to be available.

So, perhaps the best option (certainly the cheapest) is to use the surplus radiosonde pressure sensors..these are designed to maintain a decent error limit all the way up to above 110,000 feet so are a natural for ham ballooning....the VIZ ones use a slider over multiple switch contacts (I'll try to post a photo soon of how to modify one of these for altitude indication) - I built one to send down the switch contact number whenever it made a transition to a new level which tracked great on the way up...but doesn't work after burst since I only looked at the transition and not absolute switch position (i.e only works for ascending switch positions), post-burst chaos tends to make it bounce a bit as well, so this will only work for ascent but should work for specifying a cutdown altitude during ascent .... The newer Vaisala surplus sondes (also on eBay) use a variable capacitance pressure sensor....the chip on that board converts the capacitance sensors into an audio frequency which sequences through Pressure, Humidity, Temperature, Internal Temp and a high and low reference tone (to calibrate for temperature drift)....they send out these tones over the period of slightly greater than one second....I'm in the process of converting some surplus Vaisala RS80 sondes I got on eBay to decode the audio tones with a small microcontroller....this is exactly how the Ozonesonde decodes the Vaisala sensors and then converts it into an ASCII message that it sends down at 300 baud...it uses a PIC chip. The only problem with

this approach is that although Vaisala provides you with the calibration coefficients, they don't tell you the curve-fitting formula so you'd have to once again calibrate it with a vacuum bell jar....although one way around this would be to fly it on a GPS equipped balloon and compare the two and calibrate it that way (provided you are able to recover it)...a real-world vacuum chamber.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3188. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 00:05:55 UTC
From: Mike Manes
Topic: 3168 Message: 3188

Yeah, thin air and possible trans-sonic local airflow probably have
something to do with PBC. But the major culprit is parachute instability,
as I discussed at GPSL last year.

In a nutshell, parachute instability is caused by the high pressure bubble
under the canopy trying to vent out one side of the skirt, causing a
reaction force that tips the 'chute even farther. Parachutes don't work so
well flying sideways. This asymmetrical venting continues until the bubble
is depleted enough to let the 'chute re-erect, and the cycle starts all over.

The cures are:

1. Provide a generous vent at the apex, even tho it increases landing
vertical velocity. At least 4" diameter on a 5 ft, preferably 6".

2. Get rid of any shards hanging off the apex after burst (or release).
And do it PDQ before the shards have a shot at entangling the shroud lines.

3. Put your fastest-falling payload at the bottom of the flight string to
server as sort of a "plumb bob" to counter any incipient instability and
to expedite re-erection.

73 de Mike W5VSI, EOSS

Joe wrote:
>
>
> Brek Brixius wrote:
>>
>> The timing on my cutdown is fixed at 81 minutes. I chose that time
>> delay because I would like to cut away about 80,000 feet and am hoping
>> to get about 1000 to 1100 feet / minute ascent rate. The reason I
>> don't want to fly to burst is, I would like to be free of the balloon
>> before burst to avoid post burst chaos.
> /*I would think that you would still have the chaos, the chaos is not so
> much the balloon popping but the lack of atmosphere to have the chute do
> much of anything at all.*/
>> I would also like to limit the time in the cold in hopes that it
>> will improve the odds of the batteries/electronics remaining
>> operational. I also like the idea of knowing when the descent phase
>> will begin. Finally, If the balloon is not up as long, hopefully
>> the recovery won't be as far down range as it would if I flew until burst.
> /*how far down range depends more on the winds I.E. "time of the year"
> than it does with the length of the flight. We've have had flights that
> last over 3 hours and go to over 100,000 feet and land 10 miles away.
> and then we've had flights that lasted only a hour or so,, got to
> 30,000 feet or so,, and traveled over 100 miles away.*/

>>
>>
>>
>> What has concerned me though is that in tests, the cord has produced a
>> flame and a molten glob of dacron/nylon on the earthward side of
>> the cord. The flame burned on after the coil had shut down. In fact
>> the flame burned long enough that my wife decided to step up and blow
>> out the flame.
> /*no oxygen at that altitude, or surely not enough to support a flame,
> never mind the wind it will shortly be having will put it out even if it
> did start
> Joe WB9SBD & Near Space Sciences
> */
>>
>>
>> Brek - KC0YOE
>>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3189. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 22:39:30 UTC
From: Mike Manes
Topic: 3168 Message: 3189

Hi Brek,

Sounds as though you're overdriving your burner. It only has to get hot enough to melt the lift line enough so that it pulls apart under tension. The EOSS burner for the kind of line you're using is 2 ohms of #28 or #30 AWG NiCr fed from 2 seriesed CR123 LiSO2 N-cells thru a 5A relay. The coil is tight-wound over the line, but just tight enough to let the line move thru the coil so it can be placed properly. It gets the job done in 4 sec, so we limit our "burn" to 10 sec. If it glows brighter than a dull red in surface free air with no line, then it's too hot.

We cover the coil with some refractory ceramic insulation and enclose it in 1/2" thickness of styrofoam to keep the wind off. And another trick is to keep about 3" of the leads feeding the coil inside the foam enclosure to minimize conducted heat transfer thru the copper to the outside world. You'll notice that the coil gets hotter in the middle than at the ends where the leads attach.

With this configuration, the worst we've seen emerge from the burner is a wisp of smoke, and then it was with another club's timed cutter that failed before launch. With a 10-sec burn, nothing comes out except the melted lift line.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> For some time I have been working on a cutdown unit for the BUNS
> balloon. It is a time delayed cutdown and consists of a 555 timer that
> drives a 4017b counter/divider in divider mode which drives a second
> 4017b in counter mode. The purpose of using two 4017b ICs is to produce
> a long time delay with a relatively small capacitor in the 555 timing
> circuit.
>
> The next to last output of the second 4017b is tied to the burner
> circuit which is essentially the same as the FTU described in Paul's
> book. That lights the nichrome coil and severs the cord to the
> balloon. The final ouput of the second 4017b is tied to it's own clock
> inhibit which prevents the burner from lighting more than once.
>
> The timing on my cutdown is fixed at 81 minutes. I chose that time
> delay because I would like to cut away about 80,000 feet and am hoping
> to get about 1000 to 1100 feet / minute ascent rate. The reason I don't
> want to fly to burst is, I would like to be free of the balloon before
> burst to avoid post burst chaos. I would also like to limit the time in
> the cold in hopes that it will improve the odds of

> the batteries/electronics remaining operational. I also like the idea
> of knowing when the descent phase will begin. Finally, If the balloon
> is not up as long, hopefully the recovery won't be as far down range as
> it would if I flew until burst.
>
> The cutdown has been performing well in tests. It runs for 81 minutes
> 19 seconds and switches on the coil for about 1 minute. The coil then
> shuts down and remains off. The cutdown has severed 100 lb dacron in
> about 5 seconds and 145 lb nylon in 8 seconds.
>
> What has concerned me though is that in tests, the cord has produced a
> flame and a molten glob of dacron/nylon on the earthward side of
> the cord. The flame burned on after the coil had shut down. In fact
> the flame burned long enough that my wife decided to step up and blow
> out the flame.
>
> I should add that the cutdown is packaged in a certafoam block with
> good clearance for the burner. We did have the lid off to observe the
> tests.
>
> After brainstorming with my wife some ways we might avoid having the
> flame, we decided to try some 3M shrink tube - shrunk to fit snuggly on
> the portion of the 145 lb nylon that runs through the burner coil.
>
> This seemed to work well. When the coil started to glow, the shrink
> tube produced a lot of smoke but no visible flame. We could see glowing
> embers inside the coil but very shortly afer the coil stopped glowing,
> so did the embers. Also the smoke stopped when the coil shut down.
> There was a black residue left inside the coil which I thought might be
> difficult to clean out but turned out it wasn't. It crumbled to a fine
> black powder and was easily removed. The 145 lb. cord took approx. 4
> seconds longer to sever with the shrink tube cover. Separation was as
> effective as without the shrink tube.
>
> Brek - KC0YOE
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>
>
>
>
>
>
> ---
> Moody friends. Drama queens. Your life? Nope! - their life, your story.
> Play Sims Stories at Yahoo! Games.
> <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3190. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-04 23:52:56 UTC
From: Mike Manes
Topic: 3168 Message: 3190

Hi Brek,

Holy shamoley! The EOSS mechanical baro-armed release with backup burner weighs just 168 gm (0.4 lb) and is rigidly bound to the load risers at the apex. We carry the batteries and relays (100 gm) in a pouch sewn to the inside of the parachute canopy about 2 ft below the apex. That 0.7 lb chunk above the 'chute is as likely to destabilize it as much as the shards from a normally-burst 1200 gm bag. Suggest thinning down your enclosure and attaching it directly to the 'chute apex above the vent (at least 4" diameter for a 5' 'chute).]

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> We considered that there isn't much Oxygen up there. We are just
> concerned for the case where it might get hung up in a tree or have an
> early burst for some reason and not be at 80,000 ft. when it is ready to
> cut.
>
> The other thing my wife was concerned about is that the cutdown itself
> weighs 0.7 lbs packaged in a 6"x6"x8" certafoam block. I am wanting to
> position it 15 feet above the parachute and tethered to the chute (I
> want the cutdown back). My wife is concerned that the cutdown unit
> would fall on and collapse the chute. I have read that the long line
> between the balloon and the parachute is to allow the burst balloon to
> fall over the side of the parachute to avoid collapsing the chue. The
> way I figure, we are either dragging back a 0.7 lb cutdown or a
> heavier burst balloon.
>
> What do you think?
>
> Thanks Roger.
>
> Brek - KC0YOE
>
> */Roger Hammond <rahammond@...>/* wrote:
>
> Brek,
>
> At 80,000 ft there won't be enough O2 to support a flame, so that
> shouldn't be a problem.
>
> Roger KCØMWM
>
>
>

> -----Original Message-----
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> Behalf Of *Brek Brixius
> *Sent:* Sunday, June 03, 2007 12:13 PM
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] Smoking Cutdown
>
> For some time I have been working on a cutdown unit for the BUNS
> balloon. It is a time delayed cutdown and consists of a 555
> timer that drives a 4017b counter/divider in divider mode which
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> that it will improve the odds of the batteries/electronics
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>
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> could see glowing embers inside the coil but very shortly afer
> the coil stopped glowing, so did the embers. Also the smoke
> stopped when the coil shut down. There was a black residue left
> inside the coil which I thought might be difficult to clean out
> but turned out it wasn't. It crumbled to a fine black powder
> and was easily removed. The 145 lb. cord took approx. 4 seconds
> longer to sever with the shrink tube cover. Separation was as
> effective as without the shrink tube.
>
> Brek - KC0YOE
>
>
>
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>
>
> ---
> Moody friends. Drama queens. Your life? Nope! - their life, your
> story.
> Play Sims Stories at Yahoo! Games.
> <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/>
>
>
> ---
> TV dinner still cooling?
> Check out "Tonight's Picks"
> <http://us.rd.yahoo.com/evt=49979/*http://tv.yahoo.com/> on Yahoo! TV.
>
> ---
> Get the Yahoo! toolbar and be alerted to new email
> <http://us.rd.yahoo.com/evt=48225/*http://new.toolbar.yahoo.com/toolbar/features/mail/in
dex.php>wherever
> you're surfing.

--
Mike Manes manes@attglobal.net Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3191. Re: [GPSL] PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 01:05:53 UTC
From: Mike Manes
Topic: 3183 Message: 3191

Or, one could just build a 60-sec cycling DF beacon with a 30 sec
listening period and a DTMF decoder to let you command a cutdown at will.
It works well.

73 de Mike W5VSI

mconner1@... wrote:
> A guarded pushbutton switch (push on, push off) might work just as well,
> so the batteries for the PICAXE aren't run down doing nothing. You'd
> switch on the cutdown box either just before release (if doing a Hail
> Mary) or as you got to the parachute (doing hand-over-hand or lanyard).
> I'd set the timer for about 3 hours - the longest I've ever held onto a
> balloon with the parachute out of reach was about a half-hour at one of
> the GPSLs.
>
> Programming the baro detection might be interesting. You'd want to
> guard against a bad single read of the pressure sensor, yet cutdown at a
> preset altitude or after a sustained pressure rise (after burst). I
> would say you'd want something like three consecutive reads of
> increasing pressure, or three reads below your cutdown pressure. You
> might miss cutting down at the very start of descent but still get it
> cut away within 10 sec or so.
>
> I have some detailed pressure data (every 2 sec or so) from some of my
> past flights so you can look at some real-world pressure data to test
> your pseudocode - the data even includes some bad readings now and again.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: PAUL VERHAGE <paul.verhage@...>
> Date: Monday, June 4, 2007 9:46 am
> Subject: Re: [GPSL] PICAXE for cutdown
> To: gpsl@yahoogroups.com
>
> > One of the benefits of being a teacher is that I have the time to
> > mess around with this stuff. Your idea is along the lines of what
> > I was thinking. I'll add a pull pin to begin the timer, that way
> > the count down doesn't begin until you're ready to launch.
> >
> > Paul
> >
> > >>> <mconner1@...> 6/4/2007 8:27 AM >>>
> > PICAXE website:
> > http://www.rev (http://www.rev/)-ed.co.uk/picaxe/

> >
> > The 8-pin versions are $4. Nice alternative to PICs if you don't
> > want to bother with getting/making a PIC programmer. About 80
> > lines of BASIC code available for use (shared with data memory).
> > The resonators are internal so all you have to do is hook up +5V,
> > ground, serial in/out for programming, and whatever sensor you want.
> >
> > Looks extremely simple and powerful for non-complex tasks like
> > timing circuits, making the barometric cutdown Paul mentioned,
> > etc. You could make a combination time/baro cutdown - have it cut
> > down at a predetermined pressure, or after X amount of time (in
> > case your ascent rate is way too low and you want to avoid an
> > unintentional long-duration flight). The most expensive part of
> > the whole thing is probably the pressure sensor (about $30).
> >
> > Total parts are probably the PICAXE, MOSFET to switch the nichrome
> > on, pressure sensor, and batteries. You might include a small
> > beeper to go off before the cutdown is engaged so that if it was
> > turned on way before launch you'd have a chance to reset the
> > cutdown rather than have it release your balloon while you're
> > still holding the payloads. The beeper would also be a nice
> > feature to verify correct operation (e.g., beep every 10 sec in
> > normal mode, every 1 sec as a cutdown warning).
> >
> > Might also want power to the PICAXE/sensors be isolated from the
> > cutdown power (separate battery) so that you don't have a brownout
> > when tripping the nichrome.
> >
> > Sure wish I had the time to mess with this.
> >
> > 73 de Mark N9XTN
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3192. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 00:32:39 UTC
From: Mike Manes
Topic: 3168 Message: 3192

Hi Brek,

Hmmm ... guess I should looked at the 4017 specs first. It's just
a 5-bit BCD-coded counter, so 2 of 'em cascade will yield just
a 100:1 clock from your 555 oscillator. For a 81-minute cycle, that
means your osc must run with a period of 0.81 minutes or 48.6 sec -
using a 1 meg R (max that I'd ever use with a 555, you need a 48.6 uF
cap, meaning an electrolytic, which not only is temp sensitive but also
about as leaky as a 1 meg.

Suggest you replace both 4017's with a 4020 14-bit ripple counter which
can give you fclk / 16,384. This will let you run your 555 at 3.37 Hz,
which gets your RC = 0.297 sec. A 0.33 uF mylar cap and 910K metal film
resistor would get you there. Then use a 4068 8-in NAND to decode a
10 sec (clk / 32) pulse to fire your burner every 81 minutes.

Or, you could just bite bullet and use a Basic Stamp I ...

73 de Mike W5VSI

Brek Brixius wrote:
> What would you use instead of the resistor and capacitor?
>
> The cap I am using is a surface mount tantalum. The package is well
> insulated but, I have a hard time even imagining the degree of cold up
> there.
>
> My cameras use the same timing circuit (though cheaper caps). Maybe
> they won't work either. If there is a good alternative, I would be
> interested. :)
>
> If the cutdown doesn't perform the same as it does here on the ground,
> there are two possibilities as I see it: 1. The cutdown cuts early
> and I don't achieve my objective to take a picture of the curvature of
> the earth. But if the cutdown timer didn't work, the cameras might not
> eirther. 2. The cutdown cuts late. If it is real late, the balloon
> will still burst. I'm just up for longer than I figured on.
>
> I guess I don't see a cutdown failure as catastrophic. Still, it would
> be nice to have some idea how it would perform in the cold. I can't
> duplicate the conditions up there but, I can remove it from the
> insulation and pop it in my freezer and see what it does there. If it
> changes, in my freezer I would guess it would change more on an actual
> flight.
>
> If the cutdown doesn't do well in the freezer, I'll scratch it from the

> payload list.
>
> Remember though, this is my first flight. If I scratched everything I
> wasn't sure of, I'd be flying a balloon with a string. :D
>
> Thank you for your thoughts. I really appreciate hearing them.
>
> Brek - KC0YOE
>
>
>
>
>
>
>
>
> */Art <KY1K@...>/* wrote:
>
> I can't help you with the cut down issue you mention.
>
> But, I strongly suggest that you do not use an RC network to
> determine the delay before actuating the cut down sequence.
>
> R and C have very poor thermal stability. I don't know how well
> insulated against the outside temperature your payload will be. But,
> even the best cap is going to have a very big change in capacitive
> value at the temperatures the balloons payload will reach, even if it
> is insulated.
>
> If you have accounted for the change in the value of your timing C,
> then you are fine. But, if you use a disc ceramic cap, you're
> probably in trouble though! I used a disc ceramic cap in a keyer
> clock circuit years ago and the variation in the keyers speed was
> horrible. I learned the hard way....but, I didn't risk losing a
> balloons payload as you do.
>
> If you must use a capacitor, choose a mylar cap or any of the caps
> that are designed for use as timing caps.
>
> Enjoy.
>
> Art
>
>
> ---
> Don't be flakey. Get Yahoo! Mail for Mobile
> <http://us.rd.yahoo.com/evt=43909/*http://mobile.yahoo.com/mail> and
> always stay connected
> <http://us.rd.yahoo.com/evt=43909/*http://mobile.yahoo.com/mail> to
> friends.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3193. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 00:09:56 UTC
From: Mike Manes
Topic: 3168 Message: 3193

To Brek's credit, he's running his 555 with a low enough RC time
constant to avoid using electrolytics! Your suggestion to use a
plastic vs ceramic cap is quite sound, however.

73 de Mike W5VSI

Art wrote:
> I can't help you with the cut down issue you mention.
>
> But, I strongly suggest that you do not use an RC network to
> determine the delay before actuating the cut down sequence.
>
> R and C have very poor thermal stability. I don't know how well
> insulated against the outside temperature your payload will be. But,
> even the best cap is going to have a very big change in capacitive
> value at the temperatures the balloons payload will reach, even if it
> is insulated.
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> horrible. I learned the hard way....but, I didn't risk losing a
> balloons payload as you do.
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> If you must use a capacitor, choose a mylar cap or any of the caps
> that are designed for use as timing caps.
>
> Enjoy.
>
> Art
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>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
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3194. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 00:41:34 UTC
From: Mike Manes
Topic: 3168 Message: 3194

Art's suggestion to use a domestic freezer as a cold soak chamber is
is a good one. Although it only goes goes down to 0F (-16C), while
one can see -80C at the tropopause, by the time you get there (100 mbar or
less), the air's too thin to convect much heat away, and the enclosure
also helps keep internal temps above -20C in most cases anyway.

If the circuit runs after a powered-down soak outside the enclosure at
-16C for 4 hrs or so, it's good of for a normal daytime latex flight.

BTW, we've flown gobs of tantalums and even aluminum electrolytics to
above 100K' (< 10 mbar) with no adverse effects. We're only talking
about under 15 psi pressure change here.

73 de Mike W5VSI, EOSS

Art wrote:
> I'd forget tantalum and electrolytic, they have bad tempco and
> tolerances are generally -5 percent +40 percent. I'm not sure the
> electrolyte would be stable at reduced pressure found in the upper
> atmosphere. I don't believe electrolytics and tantalums are
> hermetically sealed due to the nature of the beasts.
>
> Any disk ceramic or ceramic 'anything' is probably not good.
>
> I'd choose any type of cap made for a timing circuit or for an active
> audio filter...Mylar is probably good and polypropylene is good.
> Silver mica caps are good, if you can afford them-they're very pricey.
>
> If you are on a tight budget and/or don't want to order a new cap
> from a vendor, taking a silver mica cap off a junk pcb will be fine.
>
> If you're writing your own code and have room left over in your PIC,
> using the PIC as a timer is hard to beat. Nested (multiple) loops in
> software easily obtain large delays with if you don't use a PIC that
> has built in timer function(s). As long as your PIC has a quartz
> crystal timebase, it will work-you can handle 200 ppm just fine!
>
> If you test it in your freezer (at zero to 5 below zero F) and don't
> get more than a 5 percent variance, you're probably fine too. Don't
> get paranoid, but do beware::>
>
> Maybe others have some ideas and will comment.
>
> Hey Brek, good luck with the first launch!
>
> Art

>
>
>> What would you use instead of the resistor and capacitor?
>>
>> The cap I am using is a surface mount tantalum. The package is well
>> insulated but, I have a hard time even imagining the degree of cold up there.
>>
>> My cameras use the same timing circuit (though cheaper caps). Maybe
>> they won't work either. If there is a good alternative, I would be
>> interested. :)
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>> If the cutdown doesn't perform the same as it does here on the
>> ground, there are two possibilities as I see it: 1. The cutdown
>> cuts early and I don't achieve my objective to take a picture of the
>> curvature of the earth. But if the cutdown timer didn't work, the
>> cameras might not eirther. 2. The cutdown cuts late. If it is real
>> late, the balloon will still burst. I'm just up for longer than I figured on.
>>
>> I guess I don't see a cutdown failure as catastrophic. Still, it
>> would be nice to have some idea how it would perform in the cold. I
>> can't duplicate the conditions up there but, I can remove it from
>> the insulation and pop it in my freezer and see what it does
>> there. If it changes, in my freezer I would guess it would change
>> more on an actual flight.
>>
>> If the cutdown doesn't do well in the freezer, I'll scratch it from
>> the payload list.
>>
>> Remember though, this is my first flight. If I scratched everything
>> I wasn't sure of, I'd be flying a balloon with a string. :D
>>
>> Thank you for your thoughts. I really appreciate hearing them.
>>
>> Brek - KC0YOE
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3195. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 02:16:56 UTC
From: Brek Brixius
Topic: 3168 Message: 3195

Chuckle, chuckle. Well in that 0.7 lb. I was leaving some room to add some duct tape. You know, just 4 or 5 wraps (each direction) to keep the lid closed. lol.

Yeah, I have a problem with making things too heavy.

I am really enjoying everyone's thoughts on this cutdown issue. I am just a beginner when it comes to building circuits. So far, I have a camera timer circuit that works fine on my Kite. I also have the cutdown unit that has a bank of surface mount led's next to each 4017b and I can watch it step by step and then trigger the relay. It sounds dumb but, it is really satisfying just to be able to get that far. And it is fun to show people and listen to them say, "Ooooh, Yeah..... What is it?". lol

I agree with you Mike, I am overdriving the burner. Originally, I tried driving the burner with a stop watch like Paul mentions in his book. The on/off signal cycled the reed but the burner coil didn't always glow. I didn't understand that it probably doesn't need to glow to be effective. So I tried latching the relay with a capaictor accross the reed relay's coil. That worked too well and the reed remained latched after the signal ceased.

When I get around to it, I need to also add a debounce for cutdown switch. Right now I am working around it by using two 9 volt battery snaps. I pop one set of snaps together and then ease the other set together. Since I have plenty of LEDs on the board, I can tell when it starts in the initial position.

I am also interested in the Picaxe (even though the name reminds me of a very bad Magnavox Oddessey 2 video game from the 80's - Pickaxe Pete). I ordered some Picaxe-08M to play with when I get a chance.

I am convinced though that my cutdown needs some more work. I don't think I'll have time to redesign it before GPSL 2007 either. So plan B, I guess is to leave the cutdown off, dump the full T tank in and fly to burst. Sound like a plan?

Thanks
Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

Holy shamoley! The EOSS mechanical baro-armed release with backup burner
weighs just 168 gm (0.4 lb) and is rigidly bound to the load risers at the
apex. We carry the batteries and relays (100 gm) in a pouch sewn to the
inside of the parachute canopy about 2 ft below the apex. That 0.7 lb
chunk above the 'chute is as likely to destabilize it as much as the
shards from a normally-burst 1200 gm bag. Suggest thinning down your
enclosure and attaching it directly to the 'chute apex above the vent
(at least 4" diameter for a 5' 'chute).]

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> We considered that there isn't much Oxygen up there. We are just
> concerned for the case where it might get hung up in a tree or have an
> early burst for some reason and not be at 80,000 ft. when it is ready to
> cut.
>
> The other thing my wife was concerned about is that the cutdown itself
> weighs 0.7 lbs packaged in a 6"x6"x8" certafoam block. I am wanting to
> position it 15 feet above the parachute and tethered to the chute (I
> want the cutdown back). My wife is concerned that the cutdown unit
> would fall on and collapse the chute. I have read that the long line
> between the balloon and the parachute is to allow the burst balloon to
> fall over the side of the parachute to avoid collapsing the chue. The
> way I figure, we are either dragging back a 0.7 lb cutdown or a
> heavier burst balloon.
>
> What do you think?
>
> Thanks Roger.
>
> Brek - KC0YOE
>
> */Roger Hammond <rahammond@...>/* wrote:
>
> Brek,
>
> At 80,000 ft there won't be enough O2 to support a flame, so that
> shouldn't be a problem.
>
> Roger KC?MWM
>
>
>
> -----Original Message-----
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> Behalf Of *Brek Brixius
> *Sent:* Sunday, June 03, 2007 12:13 PM
> *To:* gpsl@yahoogroups.com
> *Subject:* [GPSL] Smoking Cutdown
>
> For some time I have been working on a cutdown unit for the BUNS
> balloon. It is a time delayed cutdown and consists of a 555
> timer that drives a 4017b counter/divider in divider mode which
> drives a second 4017b in counter mode. The purpose of using two
> 4017b ICs is to produce a long time delay with a relatively
> small capacitor in the 555 timing circuit.
>
> The next to last output of the second 4017b is tied to the
> burner circuit which is essentially the same as the FTU
> described in Paul's book. That lights the nichrome coil and
> severs the cord to the balloon. The final ouput of the second

> 4017b is tied to it's own clock inhibit which prevents the
> burner from lighting more than once.
>
> The timing on my cutdown is fixed at 81 minutes. I chose that
> time delay because I would like to cut away about 80,000 feet
> and am hoping to get about 1000 to 1100 feet / minute ascent
> rate. The reason I don't want to fly to burst is, I would like
> to be free of the balloon before burst to avoid post burst
> chaos. I would also like to limit the time in the cold in hopes
> that it will improve the odds of the batteries/electronics
> remaining operational. I also like the idea of knowing when
> the descent phase will begin. Finally, If the balloon is not up
> as long, hopefully the recovery won't be as far down range as it
> would if I flew until burst.
>
> The cutdown has been performing well in tests. It runs for 81
> minutes 19 seconds and switches on the coil for about 1 minute.
> The coil then shuts down and remains off. The cutdown has
> severed 100 lb dacron in about 5 seconds and 145 lb nylon in 8
> seconds.
>
> What has concerned me though is that in tests, the cord
> has produced a flame and a molten glob of dacron/nylon on the
> earthward side of the cord. The flame burned on after the coil
> had shut down. In fact the flame burned long enough that my
> wife decided to step up and blow out the flame.
>
> I should add that the cutdown is packaged in a certafoam block
> with good clearance for the burner. We did have the lid off to
> observe the tests.
>
> After brainstorming with my wife some ways we might avoid having
> the flame, we decided to try some 3M shrink tube - shrunk to
> fit snuggly on the portion of the 145 lb nylon that runs through
> the burner coil.
>
> This seemed to work well. When the coil started to glow, the
> shrink tube produced a lot of smoke but no visible flame. We
> could see glowing embers inside the coil but very shortly afer
> the coil stopped glowing, so did the embers. Also the smoke
> stopped when the coil shut down. There was a black residue left
> inside the coil which I thought might be difficult to clean out
> but turned out it wasn't. It crumbled to a fine black powder
> and was easily removed. The 145 lb. cord took approx. 4 seconds
> longer to sever with the shrink tube cover. Separation was as
> effective as without the shrink tube.
>
> Brek - KC0YOE
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> ---
> Moody friends. Drama queens. Your life? Nope! - their life, your
> story.
> Play Sims Stories at Yahoo! Games.
> <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/>
>
>
> ---
> TV dinner still cooling?
> Check out "Tonight's Picks"
> <http://us.rd.yahoo.com/evt=49979/*http://tv.yahoo.com/> on Yahoo! TV.
>
> ---
> Get the Yahoo! toolbar and be alerted to new email
> <http://us.rd.yahoo.com/evt=48225/*http://new.toolbar.yahoo.com/toolbar/features/mail/in
dex.php>wherever
> you're surfing.

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

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3196. Re: [GPSL] PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 14:03:47 UTC
From: PAUL VERHAGE
Topic: 3183 Message: 3196

I have most of the cutdown designed and because we have finals today, I think I can finish during class. It uses a PICAXE-04 and has a temperature and pressure sensor as inputs. The PICAXE can be programmed on the cutdown PCB, so the code can be tweaked without removing the chip. I'd recommend using the PICAXE-08M so it can do some data logging during the flight. That feature should allow us to adjust the code for best performance. I want to program it to cut away the balloon based on time, change in temperature, or on pressure (and change in pressure). Adding a datalogging feature measures cramming a lot of code into 256 bytes. Does anyone have a micro shoe horn?

The pressure sensor is a SM5812 which I've had pretty good luck with. The temperature sensor is a thermistor and 47k resistor. A 47k resistor, according to my calculations, gives you the greatest sensitivity in the voltage dividing temperature sensor. The thermistor is the tiny Radio Shack one and should be mounted outside the cutdown enclosure so it senses temperature changes. The PCB will be small and use two batteries, one for logic power and the other for the burner.
I should have several boards and will bring them to GPSL.

Paul
>>> <mconner1@...> 6/4/2007 8:27 AM >>>
PICAXE website:
http://www.rev (http://www.rev/)-ed.co.uk/picaxe/

The 8-pin versions are $4. Nice alternative to PICs if you don't want to bother with getting/making a PIC programmer. About 80 lines of BASIC code available for use (shared with data memory). The resonators are internal so all you have to do is hook up +5V, ground, serial in/out for programming, and whatever sensor you want.

Looks extremely simple and powerful for non-complex tasks like timing circuits, making the barometric cutdown Paul mentioned, etc. You could make a combination time/baro cutdown - have it cut down at a predetermined pressure, or after X amount of time (in case your ascent rate is way too low and you want to avoid an unintentional long-duration flight). The most expensive part of the whole thing is probably the pressure sensor (about $30).

Total parts are probably the PICAXE, MOSFET to switch the nichrome on, pressure sensor, and batteries. You might include a small beeper to go off before the cutdown is engaged so that if it was turned on way before launch you'd have a chance to reset the cutdown rather than have it release your balloon while you're still holding the payloads. The beeper would also be a nice feature to verify correct operation (e.g., beep every 10 sec in normal mode, every 1 sec as a cutdown warning).

Might also want power to the PICAXE/sensors be isolated from the cutdown power (separate battery) so that you don't have a brownout when tripping the nichrome.

Sure wish I had the time to mess with this.

73 de Mark N9XTN

Yahoo! Groups Links

3197. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 17:19:19 UTC
From: Mike Manes
Topic: 3168 Message: 3197

Hi Brek,

"Things should be made as light as possible, but not more so", with
apologies ...

Guess I'm surprised that more folks didn't suggest using a Basic Stamp I
for your timer. Not familiar with the PICAxe chip, but having coded
PICs in assembly in a former life, I suspect the learning curve may be
a lot steeper than for the BSC - only advantage is hardware cost.

Not sure what you mean about the "reed" (reed relay?) and the cap that's
holding it in. Are you using an SCR to drive the burner directly or the
relay coil? The piezo beeper output from a stopwatch can work fine,
but you'll need some external gain to bump it up to the level that can
drive a relay - an SCR would do that, but unfortunately, SCRs latch ON
until the load current is cut. A power FET, like a 2N7000 would also
work to drive relay coil, but it's not strong enuf to drive the burner
coil directly.

re the CMOS counter: you can keep the LEDs - just tie 'em into the
binary outputs of the 4020; makes just as interesting a display.

The VIZ anaeroid baroswitch approach that Bill WB8ELK suggested has merit
in that it will keep the burner running only until the altitude drops below
the setpoint minus some hysteresis. So you'd not have to worry about
it lighting off on the deck. The microswitch contacts are good enough
to handle the burner current directly, so the whole shebang would comprise
the burner, baroswitch and batts plus some minimal insulating enclosure.

I could loan you a baroswitch for GPSL and calibrate it to fire at 80K;
a loan, since I'm running short of anaeroids at the moment. Interested?

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> Chuckle, chuckle. Well in that 0.7 lb. I was leaving some room to add
> some duct tape. You know, just 4 or 5 wraps (each direction) to keep
> the lid closed. lol.
>
> Yeah, I have a problem with making things too heavy.
>
> I am really enjoying everyone's thoughts on this cutdown issue. I am
> just a beginner when it comes to building circuits. So far, I have a
> camera timer circuit that works fine on my Kite. I also have the
> cutdown unit that has a bank of surface mount led's next to each 4017b
> and I can watch it step by step and then trigger the relay. It sounds
> dumb but, it is really satisfying just to be able to get that far. And

> it is fun to show people and listen to them say, "Ooooh, Yeah..... What
> is it?". lol
>
> I agree with you Mike, I am overdriving the burner. Originally, I tried
> driving the burner with a stop watch like Paul mentions in his book.
> The on/off signal cycled the reed but the burner coil didn't always
> glow. I didn't understand that it probably doesn't need to glow to be
> effective. So I tried latching the relay with a capaictor accross the
> reed relay's coil. That worked too well and the reed remained latched
> after the signal ceased.
>
> When I get around to it, I need to also add a debounce for cutdown
> switch. Right now I am working around it by using two 9 volt battery
> snaps. I pop one set of snaps together and then ease the other set
> together. Since I have plenty of LEDs on the board, I can tell when it
> starts in the initial position.
>
> I am also interested in the Picaxe (even though the name reminds me of a
> very bad Magnavox Oddessey 2 video game from the 80's - Pickaxe
> Pete). I ordered some Picaxe-08M to play with when I get a chance.
>
> I am convinced though that my cutdown needs some more work. I don't
> think I'll have time to redesign it before GPSL 2007 either. So plan B,
> I guess is to leave the cutdown off, dump the full T tank in and fly to
> burst. Sound like a plan?
>
> Thanks
> Brek - KC0YOE
>
>
>
>
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Brek,
>
> Holy shamoley! The EOSS mechanical baro-armed release with backup burner
> weighs just 168 gm (0.4 lb) and is rigidly bound to the load risers
> at the
> apex. We carry the batteries and relays (100 gm) in a pouch sewn to the
> inside of the parachute canopy about 2 ft below the apex. That 0.7 lb
> chunk above the 'chute is as likely to destabilize it as much as the
> shards from a normally-burst 1200 gm bag. Suggest thinning down your
> enclosure and attaching it directly to the 'chute apex above the vent
> (at least 4" diameter for a 5' 'chute).]
>
> 73 de Mike W5VSI, EOSS
>
> Brek Brixius wrote:

> > We considered that there isn't much Oxygen up there. We are just
> > concerned for the case where it might get hung up in a tree or
> have an
> > early burst for some reason and not be at 80,000 ft. when it is
> ready to
> > cut.
> >
> > The other thing my wife was concerned about is that the cutdown
> itself
> > weighs 0.7 lbs packaged in a 6"x6"x8" certafoam block. I am
> wanting to
> > position it 15 feet above the parachute and tethered to the chute (I
> > want the cutdown back). My wife is concerned that the cutdown unit
> > would fall on and collapse the chute. I have read that the long line
> > between the balloon and the parachute is to allow the burst
> balloon to
> > fall over the side of the parachute to avoid collapsing the chue.
> The
> > way I figure, we are either dragging back a 0.7 lb cutdown or a
> > heavier burst balloon.
> >
> > What do you think?
> >
> > Thanks Roger.
> >
> > Brek - KC0YOE
> >
> > */Roger Hammond <rahammond@...
> <mailto:rahammond%40charter.net>>/* wrote:
> >
> > Brek,
> >
> > At 80,000 ft there won't be enough O2 to support a flame, so that
> > shouldn't be a problem.
> >
> > Roger KCØMWM
> >
> >
> >
> > -----Original Message-----
> > *From:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] *On
> > Behalf Of *Brek Brixius
> > *Sent:* Sunday, June 03, 2007 12:13 PM
> > *To:* gpsl@yahoogroups.com <mailto:gpsl%40yahoogroups.com>
> > *Subject:* [GPSL] Smoking Cutdown
> >
> > For some time I have been working on a cutdown unit for the BUNS
> > balloon. It is a time delayed cutdown and consists of a 555
> > timer that drives a 4017b counter/divider in divider mode which

> > drives a second 4017b in counter mode. The purpose of using two
> > 4017b ICs is to produce a long time delay with a relatively
> > small capacitor in the 555 timing circuit.
> >
> > The next to last output of the second 4017b is tied to the
> > burner circuit which is essentially the same as the FTU
> > described in Paul's book. That lights the nichrome coil and
> > severs the cord to the balloon. The final ouput of the second
> > 4017b is tied to it's own clock inhibit which prevents the
> > burner from lighting more than once.
> >
> > The timing on my cutdown is fixed at 81 minutes. I chose that
> > time delay because I would like to cut away about 80,000 feet
> > and am hoping to get about 1000 to 1100 feet / minute ascent
> > rate. The reason I don't want to fly to burst is, I would like
> > to be free of the balloon before burst to avoid post burst
> > chaos. I would also like to limit the time in the cold in hopes
> > that it will improve the odds of the batteries/electronics
> > remaining operational. I also like the idea of knowing when
> > the descent phase will begin. Finally, If the balloon is not up
> > as long, hopefully the recovery won't be as far down range as it
> > would if I flew until burst.
> >
> > The cutdown has been performing well in tests. It runs for 81
> > minutes 19 seconds and switches on the coil for about 1 minute.
> > The coil then shuts down and remains off. The cutdown has
> > severed 100 lb dacron in about 5 seconds and 145 lb nylon in 8
> > seconds.
> >
> > What has concerned me though is that in tests, the cord
> > has produced a flame and a molten glob of dacron/nylon on the
> > earthward side of the cord. The flame burned on after the coil
> > had shut down. In fact the flame burned long enough that my
> > wife decided to step up and blow out the flame.
> >
> > I should add that the cutdown is packaged in a certafoam block
> > with good clearance for the burner. We did have the lid off to
> > observe the tests.
> >
> > After brainstorming with my wife some ways we might avoid having
> > the flame, we decided to try some 3M shrink tube - shrunk to
> > fit snuggly on the portion of the 145 lb nylon that runs through
> > the burner coil.
> >
> > This seemed to work well. When the coil started to glow, the
> > shrink tube produced a lot of smoke but no visible flame. We
> > could see glowing embers inside the coil but very shortly afer
> > the coil stopped glowing, so did the embers. Also the smoke
> > stopped when the coil shut down. There was a black residue left
> > inside the coil which I thought might be difficult to clean out

> > but turned out it wasn't. It crumbled to a fine black powder
> > and was easily removed. The 145 lb. cord took approx. 4 seconds
> > longer to sever with the shrink tube cover. Separation was as
> > effective as without the shrink tube.
> >
> > Brek - KC0YOE
> >
> >
> >
> >
> >
> >
> >
> >
> > --
> > Moody friends. Drama queens. Your life? Nope! - their life, your
> > story.
> > Play Sims Stories at Yahoo! Games.
> > <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/
> <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/>>
> >
> >
> > --
> > TV dinner still cooling?
> > Check out "Tonight's Picks"
> > <http://us.rd.yahoo.com/evt=49979/*http://tv.yahoo.com/
> <http://us.rd.yahoo.com/evt=49979/*http://tv.yahoo.com/>> on Yahoo! TV.
> >
> > --
> > Get the Yahoo! toolbar and be alerted to new email
> >
> <http://us.rd.yahoo.com/evt=48225/*http://new.toolbar.yahoo.com/toolbar/features/mail/in
dex.php
> <http://us.rd.yahoo.com/evt=48225/*http://new.toolbar.yahoo.com/toolbar/features/mail/in
dex.php>>wherever
>
> > you're surfing.
>
> --
> Mike Manes manes@attglobal.net <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> --
> Need a vacation? Get great deals to amazing places
> <http://us.rd.yahoo.com/evt=48256/*http://travel.yahoo.com/;_ylc=X3oDMTFhN2hucjlpBF9TAzk
3NDA3NTg5BHBvcwM1BHNlYwNncm91cHMEc2xrA2VtYWlsLW5jbQ-->on
> Yahoo! Travel.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3198. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 17:06:53 UTC
From: mconner1@gmail.com
Topic: 3168 Message: 3198
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3199. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 17:31:12 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3199
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3200. SM5812 Pressure Sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 18:22:06 UTC
From: PAUL VERHAGE
Topic: 3200 Message: 3200

Here's an email about the pressure sensor I'm using for the PICAXE Terminator. The sensor looks pretty good and has worked well with my near space miniature weather station. It's radiometric and runs off of 5 volts.

Paul

PS, there's three left, since I just ordered one.

>>> David Ezekiel <david@...> 6/5/2007 9:57 AM >>>
Yes

on 6/5/07 9:51 AM, PAUL VERHAGE at Paul.Verhage@... wrote:

Thanks. I assume I call the toll free number (866-830-9572) to place the order?

Paul

>>> David Ezekiel <david@...> 6/4/2007 2:32 PM >>>
We do not have a secure site.
You can email the billing shipping info and call with credit card info. Need a phone number as well.
Thanks
David

on 6/4/07 4:22 PM, PAUL VERHAGE at Paul.Verhage@... wrote:

Thanks. Can I order one over email with a credit card?

Paul

>>> David Ezekiel <david@...> 6/4/2007 2:21 PM >>>
Paul,

Thank you for your inquiry.
Our computer says we have 4 pieces.

Cost: $24.00 each.

Thanks
David

on 6/4/07 2:10 PM, PAUL VERHAGE at Paul.Verhage@... wrote:

I would like to buy a single sensor to experiment with. I launch high altitude balloons and it would be helpful to have a device that can cut the balloon away just before it bursts. The SM5812-015-A-3-S looks like it would work well.

How do I order single items from your company?

Thanks,
Paul Verhage

--
David Ezekiel
Vice President Sales
Send Return E-Mail to david@...
Phone: (1) 781-862-9572
Toll Free: (1) 866-830-9572
Fax: (1) 781-862-9244

Servoflo Corporation
75 Allen Street
Lexington, MA 02421
http://www.servoflo.com (http://www.servoflo.com/)

3201. Fw: [SGSatellites] Digital payload camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 21:07:21 UTC
From: Ralph Wallio, W0RPK
Topic: 3201 Message: 3201

----- Original Message -----
From: "Paul Seifert" <seifert@...>
To: <SGSatellites@...>
Sent: Tuesday, June 05, 2007 3:42 PM
Subject: [SGSatellites] Digital payload camera?

Hello all,

A question for the collected knowledge here: I'm looking to upgrade our payload camera from the Colorado workshop Elph LT to digital (APS film is getting harder to find here, 40 exposure rolls need to be special ordered, and processing cost has skyrocketed). What digital cameras do any of you use? I need it to be modifiable like the Elph for external triggering.

Megapixels are not really a concern, anything over 2 is fine. Of course, size and weight are. I'd also like it to use SD cards if possible. Finally, a target price of around $100 (or less?) would be nice.

Thanks for your help.

--
****
**
There are 10 kinds of people: those who understand binary, and those who don't.
****
**

Paul Seifert, Ph.D.
Assistant Professor
Physics Department
Concordia College
901 8th St. S.
Moorhead, MN 56562
KC0NSR

(218)299-4612

SGSatellites mailing list
SGSatellites@...
http://spacegrant.org/mailman/listinfo/sgsatellites_spacegrant.org

3202. RE: [GPSL] SM5812 Pressure Sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-05 20:58:34 UTC
From: Roger Hammond
Topic: 3200 Message: 3202

The "PICAXE Terminator"... was that the predecessor to the original Terminator...pre-Skynet?
I couldn't resist. If you haven't seen the Terminator movies, then none of this will make sense.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Tuesday, June 05, 2007 1:22 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] SM5812 Pressure Sensor

Here's an email about the pressure sensor I'm using for the PICAXE Terminator. The sensor looks pretty good and has worked well with my near space miniature weather station. It's radiometric and runs off of 5 volts.

Paul

PS, there's three left, since I just ordered one.

>>> David Ezekiel <david@...> 6/5/2007 9:57 AM >>>
Yes

on 6/5/07 9:51 AM, PAUL VERHAGE at Paul.Verhage@boiseschools.org wrote:

Thanks. I assume I call the toll free number (866-830-9572) to place the order?

Paul

>>> David Ezekiel <david@...> 6/4/2007 2:32 PM >>>
We do not have a secure site.
You can email the billing shipping info and call with credit card info.
Need a phone number as well.
Thanks
David

on 6/4/07 4:22 PM, PAUL VERHAGE at Paul.Verhage@... wrote:

Thanks. Can I order one over email with a credit card?

Paul

>>> David Ezekiel <david@...> 6/4/2007 2:21 PM >>>
Paul,

Thank you for your inquiry.
Our computer says we have 4 pieces.

Cost: $24.00 each.

Thanks
David

on 6/4/07 2:10 PM, PAUL VERHAGE at Paul.Verhage@boiseschools.org wrote:

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altitude balloons and it would be helpful to have a device that can cut the
balloon away just before it bursts. The SM5812-015-A-3-S looks like it
would work well.

How do I order single items from your company?

Thanks,
Paul Verhage

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David Ezekiel
Vice President Sales
Send Return E-Mail to david@...
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Servoflo Corporation
75 Allen Street
Lexington, MA 02421
http://www.servoflo <http://www.servoflo.com/> .com

3203. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 01:34:34 UTC
From: Mike Manes
Topic: 3168 Message: 3203

Well, if the PICAxe has on-board ADCs and I^2C, then that's a couple
of steps above the BSC1. The EOSS CW/DF/Cutdown module uses perzactly
100% of the available EEPROM - If I had a 6-char call sign, it wouldn't
fit.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I've used PICAXEs a couple of times. They are as easy as Stamps. As
> Mark says, they are great as reduced function Stamps. Funny to say, but
> sometimes a BASIC Stamp 1 is too much.
>
> Paul
>
> >>> <mconner1@...> 6/5/2007 11:06 AM >>>
>
> Mike,
>
> You might want to take a look at the PICAXE stuff in more detail. Think
> of them as reduced-capability Stamps (but they still can do 10-bit A/D
> conversions, some of them do I2C comm, etc). The 8-pin chips are only
> $4 and the 40-pin ones are $12. A Basic Stamp 1 is $29.
>
> http://www.rev-ed.co.uk/picaxe/
>
> http://www.sparkfun.com/commerce/categories.php?cPath=51_124
>
> If a person is already familiar with PBasic for the Stamps, programming
> a PICAXE looks to be a pretty flat learning curve. There's even a
> flowchart programming editor so you can do it graphically.
>
> I'm taking this all from the website rather than personal experience,
> but these look like a low-cost alternative to Stamps for simpler tasks
> like a cutdown.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Mike Manes <manes@...>
> Date: Tuesday, June 5, 2007 11:38 am
> Subject: Re: [GPSL] Smoking Cutdown
> To: Brek Brixius KC0YOE <gofly2007@...>
> Cc: GPSL@yahoogroups.com
>
> > Guess I'm surprised that more folks didn't suggest using a Basic

> > Stamp I
> > for your timer. Not familiar with the PICAxe chip, but having coded
> > PICs in assembly in a former life, I suspect the learning curve
> > may be
> > a lot steeper than for the BSC - only advantage is hardware cost.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3204. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 01:30:48 UTC
From: Mike Manes
Topic: 3168 Message: 3204

Hey, thanks, Mark!

I was kinda wondering when Microchip might grab a piece of the Parallax action. I'll take a peek at those links and see how much wallet burden the corresponding development system demands.

That's not to say that I'm gonna start genning code, tho. I have an ICE-22 with ASM and C+ for a bunch of now-obsolete flash PICs still waiting for that elusive round tuit to arrive ... :={

73 de Mike W5VSI, EOSS

mconner1@... wrote:
> Mike,
>
> You might want to take a look at the PICAXE stuff in more detail. Think
> of them as reduced-capability Stamps (but they still can do 10-bit A/D
> conversions, some of them do I2C comm, etc). The 8-pin chips are only
> $4 and the 40-pin ones are $12. A Basic Stamp 1 is $29.
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> I'm taking this all from the website rather than personal experience,
> but these look like a low-cost alternative to Stamps for simpler tasks
> like a cutdown.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Mike Manes <manes@...>
> Date: Tuesday, June 5, 2007 11:38 am
> Subject: Re: [GPSL] Smoking Cutdown
> To: Brek Brixius KC0YOE <gofly2007@...>
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> > Guess I'm surprised that more folks didn't suggest using a Basic
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> > a lot steeper than for the BSC - only advantage is hardware cost.
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>

--
Mike Manes manes@... Tel: 303-979-4899
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3205. Re: [GPSL] SM5812 Pressure Sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 01:41:38 UTC
From: Mike Manes
Topic: 3200 Message: 3205

Could you send me the specs? Remember that at 100K', we're trying to
measure just 1% of full scale, and some pressure sensors have at least
1% accumulated scale and tempco error.

BTW, I think you meant to say "ratiometric".

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Here's an email about the pressure sensor I'm using for the PICAXE
> Terminator. The sensor looks pretty good and has worked well with my
> near space miniature weather station. It's radiometric and runs off of
> 5 volts.
>
> Paul
>
> PS, there's three left, since I just ordered one.
>
> >>> David Ezekiel <david@...> 6/5/2007 9:57 AM >>>
> Yes
>
>
> on 6/5/07 9:51 AM, PAUL VERHAGE at Paul.Verhage@... wrote:
>
> Thanks. I assume I call the toll free number (866-830-9572) to
> place the order?
>
> Paul
>
>
>
> > >> David Ezekiel <david@...> 6/4/2007 2:32 PM >>>
> We do not have a secure site.
> You can email the billing shipping info and call with credit card
> info. Need a phone number as well.
> Thanks
> David
>
>
> on 6/4/07 4:22 PM, PAUL VERHAGE at Paul.Verhage@... wrote:
>
> Thanks. Can I order one over email with a credit card?
>
> Paul
>
> > >> David Ezekiel <david@...> 6/4/2007 2:21 PM >>>

> Paul,
>
> Thank you for your inquiry.
> Our computer says we have 4 pieces.
>
> Cost: $24.00 each.
>
> Thanks
> David
>
>
> on 6/4/07 2:10 PM, PAUL VERHAGE at Paul.Verhage@...
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>
> I would like to buy a single sensor to experiment with. I
> launch high altitude balloons and it would be helpful to
> have a device that can cut the balloon away just before it
> bursts. The SM5812-015-A-3-S looks like it would work well.
>
> How do I order single items from your company?
>
> Thanks,
> Paul Verhage
>
>
>
>
>
> --
> David Ezekiel
> Vice President Sales
> Send Return E-Mail to david@...
> Phone: (1) 781-862-9572
> Toll Free: (1) 866-830-9572
> Fax: (1) 781-862-9244
>
> Servoflo Corporation
> 75 Allen Street
> Lexington, MA 02421
> http://www.servoflo.com <http://www.servoflo.com/>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3206. RE: [GPSL] Fw: [SGSatellites] Digital payload camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 02:20:08 UTC
From: Patterson, David
Topic: 3201 Message: 3206

Taylor University has had a lot of success with inexpensive (~$60) cameras from Wal-mart like this one: http://www.walmart.com/catalog/product.do?product_id=5640635. Because of the single-action shutter button, hookup is fairly straightforward, and, with a high capacity SD card and lithium batteries, it doesn't seem to have any trouble staying on and taking pictures for the entire flight.

One thought: because CCD imagers are sensitive to IR, there are filtration options that don't work well with standard film.

Hope this helps!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Ralph Wallio, W0RPK
Sent: Tue 6/5/2007 5:07 PM
To: GPSL
Subject: [GPSL] Fw: [SGSatellites] Digital payload camera?

----- Original Message -----
From: "Paul Seifert" <seifert@... <mailto:seifert%40cord.edu> >
To: <SGSatellites@spacegrant.org <mailto:SGSatellites%40spacegrant.org> >
Sent: Tuesday, June 05, 2007 3:42 PM
Subject: [SGSatellites] Digital payload camera?

Hello all,

A question for the collected knowledge here: I'm looking to upgrade our payload camera from the Colorado workshop Elph LT to digital (APS film is getting harder to find here, 40 exposure rolls need to be special ordered, and processing cost has skyrocketed). What digital cameras do any of you use? I need it to be modifiable like the Elph for external triggering.

Megapixels are not really a concern, anything over 2 is fine. Of course, size and weight are. I'd also like it to use SD cards if possible. Finally, a target price of around $100 (or less?) would be nice.

Thanks for your help.

--
****

There are 10 kinds of people: those who understand binary, and those who don't.
****
**

Paul Seifert, Ph.D.
Assistant Professor
Physics Department
Concordia College
901 8th St. S.
Moorhead, MN 56562
KC0NSR

(218)299-4612

_____
SGSatellites mailing list
SGSatellites@... <mailto:SGSatellites%40spacegrant.org>
http://spacegrant.org/mailman/listinfo/sgsatellites_spacegrant.org
<http://spacegrant.org/mailman/listinfo/sgsatellites_spacegrant.org>

3207. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 03:05:42 UTC
From: Brek Brixius
Topic: 3168 Message: 3207

My understanding of the Picaxe is that it is just a PIC that has a BASIC interpreter already loaded on it. You just hook it up to a serial port or usb and program it with free software that the manufacturer provides. According to what I read, you can program it with BASIC or by drawing flow charts. It looks real simple. With one line of code, you can tell the Picaxe to pause for however long you want it to wait. Then the next line of code can turn an output pin on... or off (hi / lo). The only drawback I can see is that it can only store about 80 lines of code. For the simple things I am doing, that should be just fine. I am really excited to see what the Picaxe can do when I get it.

Regards to my attempted cutdown unit: The burner control is the same as the Flight Termination Unit described in Paul's book. I am not using a silicon-controlled rectifier (SCR). I had to look that up. Like I said, I am a beginner. Any rate, the FTU described in Paul's book consists of a resister, transister, diode and reed relay and the burner coil. The signal line goes through the risistor to the transistor to the reed relay. When the reed relay switches on, the burner receives full power from the battery through the burner coil then the relay switch to ground. The 4017b provides a strong steady signal that keeps the relay on so the burner coil runs at full potential (at least as I understand it). The diode sets across the reed relay coil and protects the relay when the field collapses.

When I tried using the beep signal from the stop watch as the signal input for this circuit, the reed relay cycled on and off and didn't allow the burner coil to get very hot. So, I told a friend of mine who has some understanding of electronics. He suggested using a capacitor positioned across the reed relay coil to set up what he called a resonant circuit. He said the value of the cap would require experimentation but that the relay could be latched using this technique. I tried several caps and the rate of cycle of the reed relay did change. I finally hit upon using two .01uf polyester film caps in parallel. That resulted in brief cycling of the relay (3 or 4 cycles growing closer together) before the relay stayed in the on position and the burner coil got extremely hot. I then disconnected the power to the circuit.

The barro switch does sound like an elegant solution. Are you that sure my APRS is going to work? I would hate to loose your switch Mike.

Right now, I am thinking maybe I should keep my first flight pretty simple. I'm not sure if my stuff will work or even how to string it up. BTW, do I need some swivels?

Thanks,
Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

"Things should be made as light as possible, but not more so", with
apologies ...

Guess I'm surprised that more folks didn't suggest using a Basic Stamp I
for your timer. Not familiar with the PICAxe chip, but having coded

PICs in assembly in a former life, I suspect the learning curve may be
a lot steeper than for the BSC - only advantage is hardware cost.

Not sure what you mean about the "reed" (reed relay?) and the cap that's
holding it in. Are you using an SCR to drive the burner directly or the
relay coil? The piezo beeper output from a stopwatch can work fine,
but you'll need some external gain to bump it up to the level that can
drive a relay - an SCR would do that, but unfortunately, SCRs latch ON
until the load current is cut. A power FET, like a 2N7000 would also
work to drive relay coil, but it's not strong enuf to drive the burner
coil directly.

re the CMOS counter: you can keep the LEDs - just tie 'em into the
binary outputs of the 4020; makes just as interesting a display.

The VIZ anaeroid baroswitch approach that Bill WB8ELK suggested has merit
in that it will keep the burner running only until the altitude drops below
the setpoint minus some hysteresis. So you'd not have to worry about
it lighting off on the deck. The microswitch contacts are good enough
to handle the burner current directly, so the whole shebang would comprise
the burner, baroswitch and batts plus some minimal insulating enclosure.

I could loan you a baroswitch for GPSL and calibrate it to fire at 80K;
a loan, since I'm running short of anaeroids at the moment. Interested?

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> Chuckle, chuckle. Well in that 0.7 lb. I was leaving some room to add
> some duct tape. You know, just 4 or 5 wraps (each direction) to keep
> the lid closed. lol.
>
> Yeah, I have a problem with making things too heavy.
>
> I am really enjoying everyone's thoughts on this cutdown issue. I am
> just a beginner when it comes to building circuits. So far, I have a
> camera timer circuit that works fine on my Kite. I also have the
> cutdown unit that has a bank of surface mount led's next to each 4017b
> and I can watch it step by step and then trigger the relay. It sounds
> dumb but, it is really satisfying just to be able to get that far. And
> it is fun to show people and listen to them say, "Ooooh, Yeah..... What
> is it?". lol
>
> I agree with you Mike, I am overdriving the burner. Originally, I tried
> driving the burner with a stop watch like Paul mentions in his book.
> The on/off signal cycled the reed but the burner coil didn't always
> glow. I didn't understand that it probably doesn't need to glow to be
> effective. So I tried latching the relay with a capaictor accross the
> reed relay's coil. That worked too well and the reed remained latched
> after the signal ceased.
>
> When I get around to it, I need to also add a debounce for cutdown

> switch. Right now I am working around it by using two 9 volt battery
> snaps. I pop one set of snaps together and then ease the other set
> together. Since I have plenty of LEDs on the board, I can tell when it
> starts in the initial position.
>
> I am also interested in the Picaxe (even though the name reminds me of a
> very bad Magnavox Oddessey 2 video game from the 80's - Pickaxe
> Pete). I ordered some Picaxe-08M to play with when I get a chance.
>
> I am convinced though that my cutdown needs some more work. I don't
> think I'll have time to redesign it before GPSL 2007 either. So plan B,
> I guess is to leave the cutdown off, dump the full T tank in and fly to
> burst. Sound like a plan?
>
> Thanks
> Brek - KC0YOE
>
>
>
>
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Brek,
>
> Holy shamoley! The EOSS mechanical baro-armed release with backup burner
> weighs just 168 gm (0.4 lb) and is rigidly bound to the load risers
> at the
> apex. We carry the batteries and relays (100 gm) in a pouch sewn to the
> inside of the parachute canopy about 2 ft below the apex. That 0.7 lb
> chunk above the 'chute is as likely to destabilize it as much as the
> shards from a normally-burst 1200 gm bag. Suggest thinning down your
> enclosure and attaching it directly to the 'chute apex above the vent
> (at least 4" diameter for a 5' 'chute).]
>
> 73 de Mike W5VSI, EOSS
>
> Brek Brixius wrote:
> > We considered that there isn't much Oxygen up there. We are just
> > concerned for the case where it might get hung up in a tree or
> have an
> > early burst for some reason and not be at 80,000 ft. when it is
> ready to
> > cut.
> >
> > The other thing my wife was concerned about is that the cutdown
> itself
> > weighs 0.7 lbs packaged in a 6"x6"x8" certafoam block. I am
> wanting to
> > position it 15 feet above the parachute and tethered to the chute (I

> > want the cutdown back). My wife is concerned that the cutdown unit
> > would fall on and collapse the chute. I have read that the long line
> > between the balloon and the parachute is to allow the burst
> balloon to
> > fall over the side of the parachute to avoid collapsing the chue.
> The
> > way I figure, we are either dragging back a 0.7 lb cutdown or a
> > heavier burst balloon.
> >
> > What do you think?
> >
> > Thanks Roger.
> >
> > Brek - KC0YOE
> >
> > */Roger Hammond <rahammond@...
> <mailto:rahammond%40charter.net>>/* wrote:
> >
> > Brek,
> >
> > At 80,000 ft there won't be enough O2 to support a flame, so that
> > shouldn't be a problem.
> >
> > Roger KC?MWM
> >
> >
> >
> > -----Original Message-----
> > *From:* GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> [mailto:GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>] *On
> > Behalf Of *Brek Brixius
> > *Sent:* Sunday, June 03, 2007 12:13 PM
> > *To:* gpsl@yahoogroups.com <mailto:gpsl%40yahoogroups.com>
> > *Subject:* [GPSL] Smoking Cutdown
> >
> > For some time I have been working on a cutdown unit for the BUNS
> > balloon. It is a time delayed cutdown and consists of a 555
> > timer that drives a 4017b counter/divider in divider mode which
> > drives a second 4017b in counter mode. The purpose of using two
> > 4017b ICs is to produce a long time delay with a relatively
> > small capacitor in the 555 timing circuit.
> >
> > The next to last output of the second 4017b is tied to the
> > burner circuit which is essentially the same as the FTU
> > described in Paul's book. That lights the nichrome coil and
> > severs the cord to the balloon. The final ouput of the second
> > 4017b is tied to it's own clock inhibit which prevents the
> > burner from lighting more than once.
> >
> > The timing on my cutdown is fixed at 81 minutes. I chose that

> > time delay because I would like to cut away about 80,000 feet
> > and am hoping to get about 1000 to 1100 feet / minute ascent
> > rate. The reason I don't want to fly to burst is, I would like
> > to be free of the balloon before burst to avoid post burst
> > chaos. I would also like to limit the time in the cold in hopes
> > that it will improve the odds of the batteries/electronics
> > remaining operational. I also like the idea of knowing when
> > the descent phase will begin. Finally, If the balloon is not up
> > as long, hopefully the recovery won't be as far down range as it
> > would if I flew until burst.
> >
> > The cutdown has been performing well in tests. It runs for 81
> > minutes 19 seconds and switches on the coil for about 1 minute.
> > The coil then shuts down and remains off. The cutdown has
> > severed 100 lb dacron in about 5 seconds and 145 lb nylon in 8
> > seconds.
> >
> > What has concerned me though is that in tests, the cord
> > has produced a flame and a molten glob of dacron/nylon on the
> > earthward side of the cord. The flame burned on after the coil
> > had shut down. In fact the flame burned long enough that my
> > wife decided to step up and blow out the flame.
> >
> > I should add that the cutdown is packaged in a certafoam block
> > with good clearance for the burner. We did have the lid off to
> > observe the tests.
> >
> > After brainstorming with my wife some ways we might avoid having
> > the flame, we decided to try some 3M shrink tube - shrunk to
> > fit snuggly on the portion of the 145 lb nylon that runs through
> > the burner coil.
> >
> > This seemed to work well. When the coil started to glow, the
> > shrink tube produced a lot of smoke but no visible flame. We
> > could see glowing embers inside the coil but very shortly afer
> > the coil stopped glowing, so did the embers. Also the smoke
> > stopped when the coil shut down. There was a black residue left
> > inside the coil which I thought might be difficult to clean out
> > but turned out it wasn't. It crumbled to a fine black powder
> > and was easily removed. The 145 lb. cord took approx. 4 seconds
> > longer to sever with the shrink tube cover. Separation was as
> > effective as without the shrink tube.
> >
> > Brek - KC0YOE
> >
> >
> >
> >
> >
> >

> >
> >
> > ---
> > Moody friends. Drama queens. Your life? Nope! - their life, your
> > story.
> > Play Sims Stories at Yahoo! Games.
> > <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/
> <http://us.rd.yahoo.com/evt=48224/*http://sims.yahoo.com/>>
> >
> >
> > ---
> > TV dinner still cooling?
> > Check out "Tonight's Picks"
> > <http://us.rd.yahoo.com/evt=49979/*http://tv.yahoo.com/
> <http://us.rd.yahoo.com/evt=49979/*http://tv.yahoo.com/>> on Yahoo! TV.
> >
> > ---
> > Get the Yahoo! toolbar and be alerted to new email
> >
> <http://us.rd.yahoo.com/evt=48225/*http://new.toolbar.yahoo.com/toolbar/features/mail/in
dex.php
> <http://us.rd.yahoo.com/evt=48225/*http://new.toolbar.yahoo.com/toolbar/features/mail/in
dex.php>>wherever
>
> > you're surfing.
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> ---
> Need a vacation? Get great deals to amazing places
> <http://us.rd.yahoo.com/evt=48256/*http://travel.yahoo.com/;_ylc=X3oDMTFhN2hucjlpBF9TAzk
3NDA3NTg5BHBvcwM1BHNlYwNncm91cHMEc2xrA2VtYWlsLW5jbQ-->on
> Yahoo! Travel.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
Now that's room service! Choose from over 150,000 hotels
in 45,000 destinations on Yahoo! Travel to find your fit.

3208. RE: [GPSL] SM5812 Pressure Sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 13:23:19 UTC
From: PAUL VERHAGE
Topic: 3200 Message: 3208
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3209. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 13:26:25 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3209

The PICAXE is a microchip PIC programmed with a BASIC interpreter. It's more like a UK version of the BASIC Stamp (which started out as a programmed PIC and is now moving into Scenix, err, Ubicom, err Parallax microcontroller).

I have an article on using the PICAXE as a flight computer that fits inside a ping pong ball. Do you need an instrumented ping pong ball?

Paul

>>> Mike Manes <manes@...> 6/5/2007 7:30 PM >>>
Hey, thanks, Mark!

I was kinda wondering when Microchip might grab a piece of the Parallax action. I'll take a peek at those links and see how much wallet burden the corresponding development system demands.

That's not to say that I'm gonna start genning code, tho. I have an ICE-22 with ASM and C+ for a bunch of now-obsolete flash PICs still waiting for that elusive round tuit to arrive ... :={

73 de Mike W5VSI, EOSS

mconner1@... wrote:
> Mike,
>
> You might want to take a look at the PICAXE stuff in more detail. Think
> of them as reduced-capability Stamps (but they still can do 10-bit A/D
> conversions, some of them do I2C comm, etc). The 8-pin chips are only
> $4 and the 40-pin ones are $12. A Basic Stamp 1 is $29.
>
> http://www.rev (http://www.rev/)-ed.co.uk/picaxe/
>
> http://www.sparkfun.com/commerce/categories.php?cPath=51_124
>
> If a person is already familiar with PBasic for the Stamps, programming
> a PICAXE looks to be a pretty flat learning curve. There's even a
> flowchart programming editor so you can do it graphically.
>
> I'm taking this all from the website rather than personal experience,
> but these look like a low-cost alternative to Stamps for simpler tasks
> like a cutdown.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Mike Manes <manes@...>
> Date: Tuesday, June 5, 2007 11:38 am

> Subject: Re: [GPSL] Smoking Cutdown
> To: Brek Brixius KC0YOE <gofly2007@...>
> Cc: GPSL@yahoogroups.com
>
> > Guess I'm surprised that more folks didn't suggest using a Basic
> > Stamp I
> > for your timer. Not familiar with the PICAxe chip, but having coded
> > PICs in assembly in a former life, I suspect the learning curve
> > may be
> > a lot steeper than for the BSC - only advantage is hardware cost.
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

3210. Re: [GPSL] SM5812 Pressure Sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 13:28:09 UTC
From: PAUL VERHAGE
Topic: 3200 Message: 3210

There's other models of the SM5812 designed for smaller (and higher) pressure ranges. I'll find the datasheet and email the link.

Paul

>>> Mike Manes <manes@...> 6/5/2007 7:41 PM >>>
Could you send me the specs? Remember that at 100K', we're trying to measure just 1% of full scale, and some pressure sensors have at least 1% accumulated scale and tempco error.

BTW, I think you meant to say "ratiometric".

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Here's an email about the pressure sensor I'm using for the PICAXE
> Terminator. The sensor looks pretty good and has worked well with my
> near space miniature weather station. It's radiometric and runs off of
> 5 volts.
>
> Paul
>
> PS, there's three left, since I just ordered one.
>
> >>> David Ezekiel <david@...> 6/5/2007 9:57 AM >>>
> Yes
>
>
> on 6/5/07 9:51 AM, PAUL VERHAGE at Paul.Verhage@boiseschools.org wrote:
>
> Thanks. I assume I call the toll free number (866-830-9572) to
> place the order?
>
> Paul
>
>
>
> > >> David Ezekiel <david@...> 6/4/2007 2:32 PM >>>
> We do not have a secure site.
> You can email the billing shipping info and call with credit card
> info. Need a phone number as well.
> Thanks
> David
>
>
> on 6/4/07 4:22 PM, PAUL VERHAGE at Paul.Verhage@boiseschools.org wrote:

>
> Thanks. Can I order one over email with a credit card?
>
> Paul
>
> > >> David Ezekiel <david@servoflo.com> 6/4/2007 2:21 PM >>>
> Paul,
>
> Thank you for your inquiry.
> Our computer says we have 4 pieces.
>
> Cost: $24.00 each.
>
> Thanks
> David
>
>
> on 6/4/07 2:10 PM, PAUL VERHAGE at Paul.Verhage@...
> wrote:
>
> I would like to buy a single sensor to experiment with. I
> launch high altitude balloons and it would be helpful to
> have a device that can cut the balloon away just before it
> bursts. The SM5812-015-A-3-S looks like it would work well.
>
> How do I order single items from your company?
>
> Thanks,
> Paul Verhage
>
>
>
>
>
>
> --
> David Ezekiel
> Vice President Sales
> Send Return E-Mail to david@...
> Phone: (1) 781-862-9572
> Toll Free: (1) 866-830-9572
> Fax: (1) 781-862-9244
>
> Servoflo Corporation
> 75 Allen Street
> Lexington, MA 02421
> http://www.servoflo.com (http://www.servoflo.com/) <http://www.servoflo.com/>
>

--
Mike Manes manes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

3211. Re: RE: [GPSL] Fw: [SGSatellites] Digital payload camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 14:04:45 UTC
From: mconner1@gmail.com
Topic: 3201 Message: 3211
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3212. Re: PICAXE for cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 14:13:02 UTC
From: D
Topic: 3183 Message: 3212

--- In GPSL@yahoogroups.com, "PAUL VERHAGE" <paul.verhage@...> wrote:
>
> I have most of the cutdown designed and because we have finals today, I think I can finish during class. It uses a PICAXE-04 and has a temperature and pressure sensor as inputs. The PICAXE can be programmed on the cutdown PCB, so the code can be tweaked without removing the chip. I'd recommend using the PICAXE-08M so it can do some data logging during the flight. That feature should allow us to adjust the code for best performance. I want to program it to cut away the balloon based on time, change in temperature, or on pressure (and change in pressure). Adding a datalogging feature measures cramming a lot of code into 256 bytes. Does anyone have a micro shoe horn?

Been there, done that before. Good luck squeezing the code.

>
> The pressure sensor is a SM5812 which I've had pretty good luck with. The temperature sensor is a thermistor and 47k resistor. A 47k resistor, according to my calculations, gives you the greatest sensitivity in the voltage dividing temperature sensor. The thermistor is the tiny Radio Shack one and should be mounted outside the cutdown enclosure so it senses temperature changes. The PCB will be small and use two batteries, one for logic power and the other for the burner.

Would you have better luck, rather than using a poorly calibrated thermistor, using something like a National Semiconductor LM19 temperature sensor IC (in a TO-92 package)? 2.4V to 5.5V supply voltage at 10 microAmps of current. +130C to -55C temperature range.

http://www.national.com/ds/LM/LM19.pdf

Digikey has them for US$1.11 (which may even be cheaper than the Radio Shack thermistors!).

Yeah, yeah, I know. Don't you just hate engineering changes late in the design cycle. ;-)

> I should have several boards and will bring them to GPSL.
>
> Paul

Dave

3213. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 14:17:07 UTC
From: mconner1@gmail.com
Topic: 3168 Message: 3213

Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing you need. See here for why:

http://www.nstar.org/nstar2000-01.html#01B

I've stopped using them altogether, and instead use braided load line to try to reduce twisting.

73 de Mark N9XTN

----- Original Message -----
From: Brek Brixius <gofly2007@...>
Date: Tuesday, June 5, 2007 10:34 pm
Subject: Re: [GPSL] Smoking Cutdown
To: GPSL@yahoogroups.com

> BTW, do I need some swivels?
>

3214. Re: RE: [GPSL] Fw: [SGSatellites] Digital payload camera?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 14:16:57 UTC
From: PAUL VERHAGE
Topic: 3201 Message: 3214
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3215. Re: EOSS Tech

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 21:33:22 UTC
From: Mike Manes
Topic: 3215 Message: 3215

Hi Billy,

Thanks for your inquiry, and congratulations on getting aboard the ballooning bandwagon!

I assume that by "four countries" you meant "four counties" - this is important, since international civil aviation regulations regarding unmanned balloons are far from harmonized.

I guess the best answer that I can give you re a flight computer is "It depends ...". But it is important that you carry a tracking beacon that transmits the balloon position thruout the flight, plus a redundant DF beacon for insurance and to expedite recovery using DF after it lands.

I'd recommend building your APRS beacon using a Kantronics KPC-3+ 1200 baud packet TNC, coupled with a GPS receiver/ant and a 2m handheld FM xcvr on 144.39 MHz, the APRS backbone freq. The KPC-3+ can be configured to generate a variety of APRS frames, and it also has 2 analog telemetry channels which can be expanded to 5 via minor surgery. It also supports digipeating and a 100K mailbox. So the KPC-3+ is about as close as you can come to an off-shelf flight computer.

The DF beacon should be entirely independent from the APRS beacon, and it can be as simple as an HT and a simple processor to generate MCW ID - like a Basic Stamp or a Microchip PICAxe.

Note that there are no Payloads-R-Us stores, so be prepared to do some designing and homebrewing to get your first payload string ready to fly.

EOSS uses a variety of APRS mapping software on the ground, but the most popular is UIView which operates with uSoft MapPoint maps.

You may also consider downloading some other freeware software from the EOSS web site, www.eoss.org

Liftwin is handy for figuring gas fills, and WinBallTrak does a good job of forecasting a flight trajectory based on some on-line wind models.

I've cc'ed this reply to the GPSL yahoogroups reflector, where you can post queries to the ARHAB community at large, and to Ralph W0RPK, who's got a great web site on ballooning, including suitable GPS engines. Ralph also sends out frequent ARHAB flight announcements for US and international balloon groups.

I hope this helps a little, and don't hesitate to inquire further. Good luck on your first flight!

73 de Mike W5VSI
Prez EOSS

Billy Graham wrote:
> Mike
>
>
>
> Hello. My callsign is N5QEM, our school is N5NTI. We are just starting
> a near space program. We are working with local school in the four
> countries that we serve. I have many questions, but by far the most is
> “Do we need some kind of flight computer?”. Also we are trying to come
> up some equipment, what kind can you suggest? I have read your site
> along with others and I can understand most of it. The software APRS,
> can you tell which version to use, as I have seen so many. How do we
> hook up sensors so that it gives information to the radio to transmit
> back to us.
>
>
>
> Well I better quit here. Thank you for your time in advance.
>
>
>
>
>
> Billy Graham
>
> Chair, Electronics Technology Department
>
> Northwest Technical Institute
>
> Springdale, Arkansas 72765
>
> 479-751-8824
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3216. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 20:59:10 UTC
From: Mike Manes
Topic: 3168 Message: 3216

In my experience, nothing >prevents< payload or balloon rotation other
than a driven platform. Braided line is definitely the best choice for
line, however.

73 de Mike W5VSI

mconner1@... wrote:
> Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing
you need. See here for why:
>
> http://www.nstar.org/nstar2000-01.html#01B
>
> I've stopped using them altogether, and instead use braided load line to try to reduce
twisting.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Brek Brixius <gofly2007@...>
> Date: Tuesday, June 5, 2007 10:34 pm
> Subject: Re: [GPSL] Smoking Cutdown
> To: GPSL@yahoogroups.com
>
>> BTW, do I need some swivels?
>>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3217. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 21:57:52 UTC
From: Joe
Topic: 3168 Message: 3217

or two balloons! he he he

Joe NSS

Mike Manes wrote:

>In my experience, nothing >prevents< payload or balloon rotation other
>than a driven platform. Braided line is definitely the best choice for
>line, however.
>
>73 de Mike W5VSI
>
>mconner1@... wrote:
>
>
>>Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing
you need. See here for why:
>>
>>http://www.nstar.org/nstar2000-01.html#01B
>>
>>I've stopped using them altogether, and instead use braided load line to try to reduce
twisting.
>>
>>73 de Mark N9XTN
>>
>>----- Original Message -----
>>From: Brek Brixius <gofly2007@...>
>>Date: Tuesday, June 5, 2007 10:34 pm
>>Subject: Re: [GPSL] Smoking Cutdown
>>To: GPSL@yahoogroups.com
>>
>>
>>
>>> BTW, do I need some swivels?
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>>Yahoo! Groups Links
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3218. Re: [GPSL] Re: EOSS Tech

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-06 22:18:52 UTC
From: Joe Lynch
Topic: 3215 Message: 3218

Hi Mike, et al.,

By way of further introduction of Billy Graham, he is the chair and lead instructor of the Electronics Technology Department of the Northwest Technical Institute in Springdale, Arkansas. Recently he received a small grant from the Arkansas Space Grant Consortium to develop a balloon satellite program at NTI, which covers the five counties surrounding Springdale. I am sure that any mentoring you all can give Billy will be most apprciated by him because he is so new to ballooning and this aspect of our hobby. More of his story will be printed in the July issue of my VHF Plus column in CQ magazine.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3219. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 00:42:08 UTC
From: Brek Brixius
Topic: 3168 Message: 3219

I wasn't thinking along the lines of preventing rotation of the payload. I was wondering if the rotation would twist up the parachute shroud lines? If it works without swivels, great because we don't have very big fish around these parts and I'm not sure where I would get very large swivels. :)

I now have plenty of 145# braided nylon line. Since I didn't pay attention to how the balloons were strung up last year, I am planning to bring a selection of line with me.

Thanks
Brek.

Mike Manes <manes@...> wrote:
In my experience, nothing >prevents< payload or balloon rotation other
than a driven platform. Braided line is definitely the best choice for
line, however.

73 de Mike W5VSI

mconner1@... wrote:
> Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing you need. See here for why:
>
> http://www.nstar.org/nstar2000-01.html#01B
>
> I've stopped using them altogether, and instead use braided load line to try to reduce twisting.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Brek Brixius <gofly2007@...>
> Date: Tuesday, June 5, 2007 10:34 pm
> Subject: Re: [GPSL] Smoking Cutdown
> To: GPSL@yahoogroups.com
>
>> BTW, do I need some swivels?
>>
>
>
>
> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

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3220. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 04:36:50 UTC
From: Mike Manes
Topic: 3168 Message: 3220

Slows it down, but won't STOP it ... 73e de Mike W5VSI

Joe wrote:
> or two balloons! he he he
>
> Joe NSS
>
> Mike Manes wrote:
>> In my experience, nothing >prevents< payload or balloon rotation other
>> than a driven platform. Braided line is definitely the best choice for
>> line, however.
>>
>> 73 de Mike W5VSI
>>
>> mconner1@... wrote:
>>
>>> Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing you need. See here for why:
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>>> http://www.nstar.org/nstar2000-01.html#01B
>>>
>>> I've stopped using them altogether, and instead use braided load line to try to reduce twisting.
>>>
>>> 73 de Mark N9XTN
>>>
>>> ----- Original Message -----
>>> From: Brek Brixius <gofly2007@...>
>>> Date: Tuesday, June 5, 2007 10:34 pm
>>> Subject: Re: [GPSL] Smoking Cutdown
>>> To: GPSL@yahoogroups.com
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>>>> BTW, do I need some swivels?
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>>> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3221. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 05:05:46 UTC
From: Mike Manes
Topic: 3168 Message: 3221

Hi Brek,

If you have a spreader ring on your shroud lines, they won't twist up,
and the 'chute will pop right open immediately on initial descent.

We used to use swivels and found them essentially useless. We'll have
a supply of line with us at GPSL, but that 145# braided nylon oughta
work fine. Just be SURE it's nylon and NOT dacron! Dacron doesn't
stretch much up to the yield point, so it tends to snap during PBC.
(Been there, done that). Nylon will stretch up to 150% and thus acts
like a nice shock absorber.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> I wasn't thinking along the lines of preventing rotation of the
> payload. I was wondering if the rotation would twist up the parachute
> shroud lines? If it works without swivels, great because we don't have
> very big fish around these parts and I'm not sure where I would get very
> large swivels. :)
>
> I now have plenty of 145# braided nylon line. Since I didn't pay
> attention to how the balloons were strung up last year, I am planning to
> bring a selection of line with me.
>
> Thanks
> Brek.
>
>
> */Mike Manes <manes@...>/* wrote:
>
> In my experience, nothing >prevents< payload or balloon rotation other
> than a driven platform. Braided line is definitely the best choice for
> line, however.
>
> 73 de Mike W5VSI
>
> mconner1@... <mailto:mconner1%40gmail.com> wrote:
> > Be sure to obtain heavy-duty swivels, well in excess of the load
> ratings you might thing you need. See here for why:
> >
> > http://www.nstar.org/nstar2000-01.html#01B
> <http://www.nstar.org/nstar2000-01.html#01B>
> >
> > I've stopped using them altogether, and instead use braided load
> line to try to reduce twisting.

> >
> > 73 de Mark N9XTN
> >
> > ----- Original Message -----
> > From: Brek Brixius <gofly2007@...
> <mailto:gofly2007%40yahoo.com>>
> > Date: Tuesday, June 5, 2007 10:34 pm
> > Subject: Re: [GPSL] Smoking Cutdown
> > To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
> >
> >> BTW, do I need some swivels?
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> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
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> --
> Get the free Yahoo! toolbar
> <http://us.rd.yahoo.com/evt=48226/*http://new.toolbar.yahoo.com/toolbar/features/norton/
index.php>
> and rest assured with the added security of spyware protection.

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3222. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 06:58:08 UTC
From: wb8elk@aol.com
Topic: 3168 Message: 3222

A quick and easy spreader ring that attaches easily to the shroud lines
below the parachute canopy are the plastic 2-ring embroidery hoops available from
Walmart....one ring goes inside the lines and the other is screwed to the
outside and works quite well.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3223. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 17:39:37 UTC
From: BASE
Topic: 3168 Message: 3223

We also use the WalMart embroidery hoops to spread the
shroud lines, but we tie the hoops together with
several zip ties between the lines around the
perimeter of the hoops.

Howard Brooks
BASE - DePauw

--- wb8elk@... wrote:

> A quick and easy spreader ring that attaches easily
> to the shroud lines
> below the parachute canopy are the plastic 2-ring
> embroidery hoops available from
> Walmart....one ring goes inside the lines and the
> other is screwed to the
> outside and works quite well.
>
> - Bill WB8ELK
>
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>
> ********** See what's
> free at http://www.aol.com.
>

TV dinner still cooling?
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http://tv.yahoo.com/

3224. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 19:05:17 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3224

I do something similar.

I epoxy the inner and outer rings of a wooden embroidery loop together.

Paul

>>> BASE <basedepauw@...> 6/7/2007 11:39 AM >>>
We also use the WalMart embroidery hoops to spread the
shroud lines, but we tie the hoops together with
several zip ties between the lines around the
perimeter of the hoops.

Howard Brooks
BASE - DePauw

--- wb8elk@... wrote:

> A quick and easy spreader ring that attaches easily
> to the shroud lines
> below the parachute canopy are the plastic 2-ring
> embroidery hoops available from
> Walmart....one ring goes inside the lines and the
> other is screwed to the
> outside and works quite well.
>
> - Bill WB8ELK
>
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>
> ********** See what's
> free at http://www.aol.com. (http://www.aol.com./)
>

TV dinner still cooling?
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http://tv.yahoo.com/

Yahoo! Groups Links

3225. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 20:11:44 UTC
From: Joe
Topic: 3168 Message: 3225

remember the video Mike?

i'll give ya the SLOW,, but for all practible purposes it was stopped,
wass cool doing a fast forward,, youd think it was in a airplane
climbing. straight ahead,, cool.

Mike Manes wrote:

>Slows it down, but won't STOP it ... 73e de Mike W5VSI
>
>Joe wrote:
>
>
>>or two balloons! he he he
>>
>>Joe NSS
>>
>>Mike Manes wrote:
>>
>>
>>>In my experience, nothing >prevents< payload or balloon rotation other
>>>than a driven platform. Braided line is definitely the best choice for
>>>line, however.
>>>
>>>73 de Mike W5VSI
>>>
>>>mconner1@... wrote:
>>>
>>>
>>>
>>>>Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might
thing you need. See here for why:
>>>>
>>>>http://www.nstar.org/nstar2000-01.html#01B
>>>>
>>>>I've stopped using them altogether, and instead use braided load line to try to reduce
twisting.
>>>>
>>>>73 de Mark N9XTN
>>>>
>>>>----- Original Message -----
>>>>From: Brek Brixius <gofly2007@...>
>>>>Date: Tuesday, June 5, 2007 10:34 pm
>>>>Subject: Re: [GPSL] Smoking Cutdown
>>>>To: GPSL@yahoogroups.com
>>>>

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>>>>> BTW, do I need some swivels?
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>>>>Yahoo! Groups Links
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3226. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 20:17:14 UTC
From: Joe
Topic: 3168 Message: 3226

to minimize any useless weight, here at NSS we use a single of the rings, and have the lines make one wrap around the hoop. and a small dab of hot melt glue to hold it in place when there is no tenstion on the lines.

Joe

BASE wrote:

>We also use the WalMart embroidery hoops to spread the
>shroud lines, but we tie the hoops together with
>several zip ties between the lines around the
>perimeter of the hoops.
>
>Howard Brooks
>BASE - DePauw
>
>--- wb8elk@... wrote:
>
>
>
>>A quick and easy spreader ring that attaches easily
>>to the shroud lines
>>below the parachute canopy are the plastic 2-ring
>>embroidery hoops available from
>>Walmart....one ring goes inside the lines and the
>>other is screwed to the
>>outside and works quite well.
>>
>>- Bill WB8ELK
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>>********** See what's
>>free at http://www.aol.com.
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>_____
>TV dinner still cooling?

>Check out "Tonight's Picks" on Yahoo! TV.
>http://tv.yahoo.com/
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>Yahoo! Groups Links
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3227. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-07 22:55:51 UTC
From: Brek Brixius
Topic: 3168 Message: 3227

Great! We have a Walmart :) I'll look at the plastic ones. I wonder if they have the wood ones too. I have worked a lot with wood and epoxy. Makes a great combo. BTW, if you are trying to plug up a hole, you can mix fillers into epoxy to give it strength (like milled or stranded glass) or colors (like graphite) or just use less epoxy. Whole wheat flower makes a nice filler. Don't use too much of any filler though or you loose adhesion.

Also, I got the message about the Instrumented Ping Pong Ball. That is amazing. I noticed there are now surface mount Picaxes too. I assume they are smaller like other surface mount DIPs. Maybe you can make Picaxe Terminator (PT) and his sidekick Mini PT.

Brek - KC0YOE

PAUL VERHAGE <paul.verhage@...> wrote:
I do something similar.

I epoxy the inner and outer rings of a wooden embroidery loop together.

Paul

>>> BASE <basedepauw@...> 6/7/2007 11:39 AM >>>
We also use the WalMart embroidery hoops to spread the
shroud lines, but we tie the hoops together with
several zip ties between the lines around the
perimeter of the hoops.

Howard Brooks
BASE - DePauw

--- wb8elk@... wrote:

> A quick and easy spreader ring that attaches easily
> to the shroud lines
> below the parachute canopy are the plastic 2-ring
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> Walmart....one ring goes inside the lines and the
> other is screwed to the
> outside and works quite well.
>
> - Bill WB8ELK
>
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> ********** See what's
> free at http://www.aol.com.
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Yahoo! Groups Links

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3228. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 00:38:18 UTC
From: Harry M
Topic: 3168 Message: 3228

Brek, there is also a product called "Micro Balloons". They makes an excellent filler. A 50/50 mix with epoxy works great. Try your local hobby shop.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

3229. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 00:43:58 UTC
From: wb8elk@aol.com
Topic: 3168 Message: 3229

I've had good results using good ole fashioned duct tape to hold the strings and hoops in place.

- Bill WB8ELK

"Real science is not possible without duct tape"

********** See what's free at http://www.aol.com.

3230. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 00:54:12 UTC
From: Mike Manes
Topic: 3168 Message: 3230

For our 10-ft chutes, EOSS uses a 3' diameter 1/4" wicker hoop. Not sure
one can get a 3' embroidery hoop. Also have a hula hoop on hand to try out.
A bit heavier than the wicker, but a lot stiffer.
73 de Mike W5VSI

Joe wrote:
> to minimize any useless weight, here at NSS we use a single of the
> rings, and have the lines make one wrap around the hoop. and a small
> dab of hot melt glue to hold it in place when there is no tenstion on
> the lines.
>
> Joe
>
> BASE wrote:
>> We also use the WalMart embroidery hoops to spread the
>> shroud lines, but we tie the hoops together with
>> several zip ties between the lines around the
>> perimeter of the hoops.
>>
>> Howard Brooks
>> BASE - DePauw
>>
>> --- wb8elk@... wrote:
>>
>>
>>> A quick and easy spreader ring that attaches easily
>>> to the shroud lines
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>>> - Bill WB8ELK
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>> http://tv.yahoo.com/
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3231. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 00:44:45 UTC
From: Mike Manes
Topic: 3168 Message: 3231

Was that the one that had the spreader truss that collapsed at launch?
We've done tandem balloons - get's messy after one bursts!
73 de Mike W5VSI

Joe wrote:
> remember the video Mike?
>
> i'll give ya the SLOW,, but for all practible purposes it was stopped,
> wass cool doing a fast forward,, youd think it was in a airplane
> climbing. straight ahead,, cool.
>
> Mike Manes wrote:
>> Slows it down, but won't STOP it ... 73e de Mike W5VSI
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>> Joe wrote:
>>
>>> or two balloons! he he he
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>>> Mike Manes wrote:
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>>>> than a driven platform. Braided line is definitely the best choice for
>>>> line, however.
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>>>> 73 de Mike W5VSI
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>>>> mconner1@... wrote:
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thing you need. See here for why:
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>>>>> I've stopped using them altogether, and instead use braided load line to try to
reduce twisting.
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>>>>> 73 de Mark N9XTN
>>>>>
>>>>> ----- Original Message -----
>>>>> From: Brek Brixius <gofly2007@...>
>>>>> Date: Tuesday, June 5, 2007 10:34 pm
>>>>> Subject: Re: [GPSL] Smoking Cutdown

>>>>> To: GPSL@yahoogroups.com
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3232. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 19:38:50 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3232

I epoxy a piece of basswood into the gap in the wooden ring (which I get from Walmart).

There's a meterial called micro bubbles that you can use to change epoxy into a putty and fill gaps. I've only used it a few times, so I suspect we have a lot of peole here that can tell you more about it than I can.

Paul "hobby shops are my friend"

>>> Brek Brixius <gofly2007@yahoo.com> 06/07/07 4:55 PM >>>
Great! We have a Walmart :) I'll look at the plastic ones. I wonder if they have the wood ones too. I have worked a lot with wood and epoxy. Makes a great combo. BTW, if you are trying to plug up a hole, you can mix fillers into epoxy to give it strength (like milled or stranded glass) or colors (like graphite) or just use less epoxy. Whole wheat flower makes a nice filler. Don't use too much of any filler though or you loose adhesion.

Also, I got the message about the Instrumented Ping Pong Ball. That is amazing. I noticed there are now surface mount Picaxes too. I assume they are smaller like other surface mount DIPs. Maybe you can make Picaxe Terminator (PT) and his sidekick Mini PT.

Brek - KC0YOE

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We also use the WalMart embroidery hoops to spread the
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BASE - DePauw

--- wb8elk@... wrote:

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> - Bill WB8ELK

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Yahoo! Groups Links

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3233. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 19:49:39 UTC
From: Joe
Topic: 3168 Message: 3233

Not at launch but about 30 minutes after launch.. the cool thisng was
not only the stability prior to the collapse,, but the ride back down
was awesome,, and talk about easy to find,, just look for the balloon
in the air still! Joe

Mike Manes wrote:

>Was that the one that had the spreader truss that collapsed at launch?
>We've done tandem balloons - get's messy after one bursts!
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>remember the video Mike?
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>>i'll give ya the SLOW,, but for all practible purposes it was stopped,
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>>Mike Manes wrote:
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>>>Slows it down, but won't STOP it ... 73e de Mike W5VSI
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>>>>>mconner1@... wrote:
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>>>>>>Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing you need. See here for why:
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>>>>>>Date: Tuesday, June 5, 2007 10:34 pm
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3234. we use the small hula hoop

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 22:02:48 UTC
From: w1lwt
Topic: 3234 Message: 3234

for the spreader ive been useing the small hula hoop. and a peice of 2 inch by 2 in duck tape to hold into position . works great and has never failed in any flight and test that I did behind the truck going down a country road at a not mention speed to test each chute design. Please remember to take the vechicle out of dive into NEUTRAUL the tranny does make noises (hi-hi) as found out.(the hard way the first time)

3235. please pass the infro about pic chips where is a good source and

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 22:05:51 UTC
From: w1lwt
Topic: 3235 Message: 3235

and information about programming them and the hooking soem up in device to use????????? I got a Promm burner for promms .Pics sound like a good idea????

3236. the pic sounds good for the camera ???

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-08 22:12:23 UTC
From: w1lwt
Topic: 3236 Message: 3236

What would be the requirement to program a pic vs a prom ??

I believe its time to do some reach here. I havent done this one yet.

Ive been useing DTMF codeing and have used my cutting cart
successfully .

But the pic sounds good also.

3237. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 00:19:45 UTC
From: Mike Manes
Topic: 3168 Message: 3237

We've had bad luck with epoxy on externals of balloon payloads. Bill Brown's 35mm camera took a shortcut to the deck from where it was epoxied to the top of one of our earlier shuttles. Of course, there are a large variety of epoxies, but we've never had a >>properly applied<< hot melt joint fail; that means both surfaces are burnished and heated to the flow temp of the hot melt glue. Best plan is belt & suspenders, however.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I epoxy a piece of basswood into the gap in the wooden ring (which I get from Walmart).
>
> There's a meterial called micro bubbles that you can use to change epoxy into a putty and fill gaps. I've only used it a few times, so I suspect we have a lot of peole here that can tell you more about it than I can.
>
> Paul "hobby shops are my friend"
>
>>>> Brek Brixius <gofly2007@...> 06/07/07 4:55 PM >>>
> Great! We have a Walmart :) I'll look at the plastic ones. I wonder if they have the wood ones too. I have worked a lot with wood and epoxy. Makes a great combo. BTW, if you are trying to plug up a hole, you can mix fillers into epoxy to give it strength (like milled or stranded glass) or colors (like graphite) or just use less epoxy. Whole wheat flower makes a nice filler. Don't use too much of any filler though or you loose adhesion.
>
> Also, I got the message about the Instrumented Ping Pong Ball. That is amazing. I noticed there are now surface mount Picaxes too. I assume they are smaller like other surface mount DIPs. Maybe you can make Picaxe Terminator (PT) and his sidekick Mini PT.
>
> Brek - KC0YOE
>
> PAUL VERHAGE <paul.verhage@...> wrote:
> I do something similar.
>
> I epoxy the inner and outer rings of a wooden embroidery loop together.
>
> Paul
>
>>>> BASE <basedepauw@...> 6/7/2007 11:39 AM >>>
> We also use the WalMart embroidery hoops to spread the
> shroud lines, but we tie the hoops together with
> several zip ties between the lines around the
> perimeter of the hoops.
>
> Howard Brooks

> BASE - DePauw
>
> --- wb8elk@... wrote:
>
>> A quick and easy spreader ring that attaches easily
>> to the shroud lines
>> below the parachute canopy are the plastic 2-ring
>> embroidery hoops available from
>> Walmart....one ring goes inside the lines and the
>> other is screwed to the
>> outside and works quite well.
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>> - Bill WB8ELK
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>> ********** See what's
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3238. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 00:23:15 UTC
From: Mike Manes
Topic: 3168 Message: 3238

Or the trail of broken-off bits of payload string if it's windy at the
the recovery site. Funny how losing enough payload weight will let the
remaining balloon fly again! Been there, done that, too.
73 de Mike W5VSI

Joe wrote:
> Not at launch but about 30 minutes after launch.. the cool thisng was
> not only the stability prior to the collapse,, but the ride back down
> was awesome,, and talk about easy to find,, just look for the balloon
> in the air still! Joe
>
>
> Mike Manes wrote:
>> Was that the one that had the spreader truss that collapsed at launch?
>> We've done tandem balloons - get's messy after one bursts!
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> remember the video Mike?
>>>
>>> i'll give ya the SLOW,, but for all practible purposes it was stopped,
>>> wass cool doing a fast forward,, youd think it was in a airplane
>>> climbing. straight ahead,, cool.
>>>
>>> Mike Manes wrote:
>>>
>>>> Slows it down, but won't STOP it ... 73e de Mike W5VSI
>>>>
>>>> Joe wrote:
>>>>
>>>>
>>>>> or two balloons! he he he
>>>>>
>>>>> Joe NSS
>>>>>
>>>>> Mike Manes wrote:
>>>>>
>>>>>
>>>>>> In my experience, nothing >prevents< payload or balloon rotation other
>>>>>> than a driven platform. Braided line is definitely the best choice for
>>>>>> line, however.
>>>>>>
>>>>>> 73 de Mike W5VSI
>>>>>>

>>>>>> mconner1@... wrote:
>>>>>>
>>>>>>
>>>>>>
>>>>>>> Be sure to obtain heavy-duty swivels, well in excess of the load ratings you might thing you need. See here for why:
>>>>>>>
>>>>>>> http://www.nstar.org/nstar2000-01.html#01B
>>>>>>>
>>>>>>> I've stopped using them altogether, and instead use braided load line to try to reduce twisting.
>>>>>>>
>>>>>>> 73 de Mark N9XTN
>>>>>>>
>>>>>>> ----- Original Message -----
>>>>>>> From: Brek Brixius <gofly2007@...>
>>>>>>> Date: Tuesday, June 5, 2007 10:34 pm
>>>>>>> Subject: Re: [GPSL] Smoking Cutdown
>>>>>>> To: GPSL@yahoogroups.com
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>>
>>>>>>>> BTW, do I need some swivels?
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>>>>>>> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
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3239. Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 00:04:46 UTC
From: wb8elk@aol.com
Topic: 3239 Message: 3239

Well...I had heard rumors that this might happen in the near future...but it's a reality now....Hank W4HTB and myself are planning to fly an ATV repeater balloon on June 16th from Bowling Green, KY....when Hank tried to get a helium tank delivered from his local Airgas distributor he was told that helium is on allocation and is only being delivered to existing customers and they are taking no new helium customers at this time.....sure doesn't sound good for the future of helium. They managed to get a local party balloon supplier to order a tank for them...at a cost of $80.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3240. Helium tank requests for the 20th anniversary ARHAB celebration in Ohio on 8/11

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 00:10:04 UTC
From: wb8elk@aol.com
Topic: 3240 Message: 3240

Here are some details on the upcoming 20th anniversary ARHAB celebration:

Where: 5 miles east of Findlay, Ohio on the farm of George WA8HDX....the launchsite of my first ARHAB flight in 1987.

When: 9:00 am EDT on August 11th.

All are welcome to participate in a group balloon launch and chase similar to a GPSL group launch.

I would like to get an idea of who needs helium (and how many tanks - 291 cu ft) for this event so I can get an estimate of costs from the local gas supplier.

Please email me with your helium requests and I'll find out the cost:

- Bill WB8ELK
email: _wb8elk@..._ (mailto:wb8elk@...)

********** See what's free at http://www.aol.com.

3241. Re: [GPSL] Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 00:46:23 UTC
From: Joe
Topic: 3239 Message: 3241

Ditto up here in Wisconsin, (not that it matters to me,, always used hydrogen anyway) but one of the guys was checking on price comparisons, and HE is not available at all.

Joe NSS

wb8elk@... wrote:

> Well...I had heard rumors that this might happen in the near
> future...but it's a reality now....Hank W4HTB and myself are planning
> to fly an ATV repeater balloon on June 16th from Bowling Green,
> KY....when Hank tried to get a helium tank delivered from his
> local Airgas distributor he was told that helium is on allocation and
> is only being delivered to existing customers and they are taking no
> new helium customers at this time.....sure doesn't sound good for the
> future of helium. They managed to get a local party balloon supplier
> to order a tank for them...at a cost of $80.
>
> - Bill WB8ELK
>
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>
> ---
> See what's free at AOL.com
> <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

3242. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 00:48:55 UTC
From: Joe
Topic: 3168 Message: 3242

I think it's that the HOT MELT stays soft,, somewhat like silicone
rubber stuff.

The nicest thing i like about the hot melt stuff is that when the flight
is over you can easily peel the stuff off with no damage to anything..
yet it will NOT come off on it's own

cool crap!

Joe

Mike Manes wrote:

>We've had bad luck with epoxy on externals of balloon payloads. Bill
>Brown's 35mm camera took a shortcut to the deck from where it was epoxied
>to the top of one of our earlier shuttles. Of course, there are a large
>variety of epoxies, but we've never had a >>properly applied<< hot melt
>joint fail; that means both surfaces are burnished and heated to the flow
>temp of the hot melt glue. Best plan is belt & suspenders, however.
>
>73 de Mike W5VSI
>
>PAUL VERHAGE wrote:
>
>
>>I epoxy a piece of basswood into the gap in the wooden ring (which I get from Walmart).
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>>There's a meterial called micro bubbles that you can use to change epoxy into a putty and
fill gaps. I've only used it a few times, so I suspect we have a lot of peole here that can
tell you more about it than I can.
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>>Paul "hobby shops are my friend"
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>>>>>Brek Brixius <gofly2007@...> 06/07/07 4:55 PM >>>
>>>>>
>>>>>
>>Great! We have a Walmart :) I'll look at the plastic ones. I wonder if they have the wood
ones too. I have worked a lot with wood and epoxy. Makes a great combo. BTW, if you are
trying to plug up a hole, you can mix fillers into epoxy to give it strength (like milled
or stranded glass) or colors (like graphite) or just use less epoxy. Whole wheat flower
makes a nice filler. Don't use too much of any filler though or you loose adhesion.
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>> Also, I got the message about the Instrumented Ping Pong Ball. That is amazing. I
noticed there are now surface mount Picaxes too. I assume they are smaller like other

surface mount DIPs. Maybe you can make Picaxe Terminator (PT) and his sidekick Mini PT.
>>
>> Brek - KC0YOE
>>
>>PAUL VERHAGE <paul.verhage@...> wrote:
>> I do something similar.
>>
>> I epoxy the inner and outer rings of a wooden embroidery loop together.
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>> Paul
>>
>>
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>>>>>BASE <basedepauw@...> 6/7/2007 11:39 AM >>>
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>>>>>
>>We also use the WalMart embroidery hoops to spread the
>>shroud lines, but we tie the hoops together with
>>several zip ties between the lines around the
>>perimeter of the hoops.
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>>Howard Brooks
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>>--- wb8elk@... wrote:
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>>>A quick and easy spreader ring that attaches easily
>>>to the shroud lines
>>>below the parachute canopy are the plastic 2-ring
>>>embroidery hoops available from
>>>Walmart....one ring goes inside the lines and the
>>>other is screwed to the
>>>outside and works quite well.
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>>>- Bill WB8ELK
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>>TV dinner still cooling?

>>Check out "Tonight's Picks" on Yahoo! TV.
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3243. Re: [GPSL] please pass the infro about pic chips where is a good source and

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 01:22:39 UTC
From: Zack Clobes
Topic: 3235 Message: 3243

I've done a lot of PIC programming. I use the CCS compiler (www.ccsinfo.com)and a WARP-13 programmer (I'm not sure on the current availability of these anymore). You're basically looking at about $200 to get setup for Microchips PICs. My big gripe over the years is that the quality of the CCS compiler is a bit lacking, it's not cheap to stay on the most current version, and you get married to one series of parts (i.e. 12bit, 14bit, etc...).

Recently, I've been exploring Atmel AVR processors. The programmer is cheaper (about $40 as I recall), and there's a good C complier (WinAVR) that's open source. I'm in the process of porting some of my PIC code over the Atmel series of processors. So far it's going slow but steady.

Zack Clobes, W0ZC
Project: Traveler

w1lwt wrote:
>
> and information about programming them and the hooking soem up in
> device to use????????? I got a Promm burner for promms .Pics sound
> like a good idea????
>
>

3244. Re: [GPSL] please pass the infro about pic chips where is a good source and

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 02:01:45 UTC
From: mgray@ess-us.com
Topic: 3235 Message: 3244

Here is a shameless plug for my web site:

http://www.kd7lmo.net/

There are a number of open source PIC and ARM7 projects that you might be interested in...

On Fri, 8 Jun 2007, Zack Clobes wrote:

> I've done a lot of PIC programming. I use the CCS compiler
> (www.ccsinfo.com)and a WARP-13 programmer (I'm not sure on the current
> availability of these anymore). You're basically looking at about $200
> to get setup for Microchips PICs. My big gripe over the years is that
> the quality of the CCS compiler is a bit lacking, it's not cheap to stay
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> cheaper (about $40 as I recall), and there's a good C complier (WinAVR)
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> over the Atmel series of processors. So far it's going slow but steady.
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> Project: Traveler
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> w1lwt wrote:
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> > device to use????????? I got a Promm burner for promms .Pics sound
> > like a good idea????
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3245. Re: [GPSL] Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 11:57:20 UTC
From: Art
Topic: 3239 Message: 3245

Is there any legitimate reason for this, or is this just another
Homeland Security crack down in the name of anti terrorism?

I've never thought much about where helium comes from though.

Art

>>helium tank delivered from his local Airgas distributor he was told
>>that helium is on allocation and is only being delivered to
>>existing customers and they are taking no new helium customers at
>>this time.....sure doesn't sound good for the future of helium.

3246. Re: [GPSL] Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 14:31:49 UTC
From: Joe
Topic: 3239 Message: 3246

Actually this is been a long time coming, un-like hydrogen, helieum can not be man made, it is found in Natural gas fields in Texas and Wyoming. It's extracted from the gas, then stored in an underground federal facility as a hedge against the coming helium shortage. Well, that's what the government anticipated back in 1960, when Russia was the only other country producing a significant amount of it. Some radioactive elements, such as uranium, release alpha particles when they decay. An alpha particle is just a helium atom with no electrons. Deep in the Earth where these radioactive decays take place, the alpha particles capture electrons and become helium. As the radioactive deposits age, large quantities of helium become trapped in underground caverns. To collect the helium, people drill down into the caverns and capture the helium as it escapes.

So i'm assuming the supply like all other "Fossil Fules" is starting to run out?

Joe NSS

Art wrote:

> Is there any legitimate reason for this, or is this just another
> Homeland Security crack down in the name of anti terrorism?
>
> I've never thought much about where helium comes from though.
>
> Art
>
>
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>
>>> helium tank delivered from his local Airgas distributor he was told
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>>> customers and they are taking no new helium customers at this
>>> time.....sure doesn't sound good for the future of helium.
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3247. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 19:12:17 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3247

I've not had hot melt fail either. Another nice thing about it is that it has very high electrical resistance.

Paul

>>> Joe <nss@...> 06/08/07 6:48 PM >>>
I think it's that the HOT MELT stays soft,, somewhat like silicone
rubber stuff.

The nicest thing i like about the hot melt stuff is that when the flight
is over you can easily peel the stuff off with no damage to anything..
yet it will NOT come off on it's own

cool crap!

Joe

Mike Manes wrote:

>We've had bad luck with epoxy on externals of balloon payloads. Bill
>Brown's 35mm camera took a shortcut to the deck from where it was epoxied
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>joint fail; that means both surfaces are burnished and heated to the flow
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>>Paul "hobby shops are my friend"
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3248. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 19:09:38 UTC
From: PAUL VERHAGE
Topic: 3168 Message: 3248

I've never had epoxy fail me. I'm using the 15 or 30 minute stuff fromm hobby shops.

Paul

>>> Mike Manes <manes@...> 06/08/07 6:19 PM >>>
We've had bad luck with epoxy on externals of balloon payloads. Bill
Brown's 35mm camera took a shortcut to the deck from where it was epoxied
to the top of one of our earlier shuttles. Of course, there are a large
variety of epoxies, but we've never had a >>properly applied<< hot melt
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> PAUL VERHAGE <paul.verhage@...> wrote:
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> I epoxy the inner and outer rings of a wooden embroidery loop together.
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> several zip ties between the lines around the
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> Howard Brooks
> BASE - DePauw
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> --- wb8elk@... wrote:
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

Yahoo! Groups Links

3249. Re: [GPSL] Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 20:45:28 UTC
From: Art
Topic: 3239 Message: 3249

Thanks Joe,

I remember reading about helium availability being low in the WW 2
and slightly beyond.....but didn't realize there was a helium shortage today.

I thought the US had tremendous natural gas reserves, so never
thought of helium as being a problem since we learned to drill deep
enough to tap natural gas in the Earth's crust.

I'll tell my wife, she orders helium to make helium balloons for
promotional purposes at her work place.

Art

>Actually this is been a long time coming, un-like
>hydrogen, helieum can not be man made, it is found in Natural gas
>fields in Texas and Wyoming. It's extracted from the gas, then
>stored in an underground federal facility as a hedge against the
>coming helium shortage. Well, that's what the government anticipated
>back in 1960, when Russia was the only other country producing a
>significant amount of it. Some radioactive elements, such as
>uranium, release alpha particles when they decay. An alpha particle
>is just a helium atom with no electrons. Deep in the Earth where
>these radioactive decays take place, the alpha particles capture
>electrons and become helium. As the radioactive deposits age, large
>quantities of helium become trapped in underground caverns. To
>collect the helium, people drill down into the caverns and capture
>the helium as it escapes.
>
>So i'm assuming the supply like all other "Fossil Fules" is starting
>to run out?
>
>Joe NSS
>
>
>
>Art wrote:
>>Is there any legitimate reason for this, or is this just another
>>Homeland Security crack down in the name of anti terrorism?
>>
>>I've never thought much about where helium comes from though.
>>
>>Art
>>
>>
>>

>>
>>>>helium tank delivered from his local Airgas distributor he was
>>>>told that helium is on allocation and is only being delivered to
>>>>existing customers and they are taking no new helium customers at
>>>>this time.....sure doesn't sound good for the future of helium.
>>
>>
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.5.472 / Virus Database: 269.8.13/842 - Release Date:
>6/9/2007 10:46 AM

3250. Re: [GPSL] Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-09 21:44:52 UTC
From: mgray@ess-us.com
Topic: 3239 Message: 3250

Here are a couple articles on the supply issue -

http://www.boccanada.com/en/aboutboc/news/?action=view&article=37

http://www.weldingmag.com/323/News/Article/False/39575/

It sounds like the same thing as gasoline pricing...we have all these
"problems and issues" with production, so you'll pay more.

On Sat, 9 Jun 2007, Joe wrote:

> Actually this is been a long time coming, un-like hydrogen, helieum
> can not be man made, it is found in Natural gas fields in Texas and
> Wyoming. It's extracted from the gas, then stored in an underground
> federal facility as a hedge against the coming helium shortage. Well,
> that's what the government anticipated back in 1960, when Russia was the
> only other country producing a significant amount of it. Some
> radioactive elements, such as uranium, release alpha particles when they
> decay. An alpha particle is just a helium atom with no electrons. Deep
> in the Earth where these radioactive decays take place, the alpha
> particles capture electrons and become helium. As the radioactive
> deposits age, large quantities of helium become trapped in underground
> caverns. To collect the helium, people drill down into the caverns and
> capture the helium as it escapes.
>
> So i'm assuming the supply like all other "Fossil Fules" is starting to
> run out?
>
> Joe NSS
>
>
>
> Art wrote:
>
> > Is there any legitimate reason for this, or is this just another
> > Homeland Security crack down in the name of anti terrorism?
> >
> > I've never thought much about where helium comes from though.
> >
> > Art
> >
> >
> >
> >
> >>> helium tank delivered from his local Airgas distributor he was told
> >>> that helium is on allocation and is only being delivered to existing

> >>> customers and they are taking no new helium customers at this
> >>> time.....sure doesn't sound good for the future of helium.
> >>
> >
> >
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>

3251. Re: [GPSL] Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 03:48:05 UTC
From: Mike Manes
Topic: 3239 Message: 3251

Bummer!

Well, that's our tax bucks at work. The He shortage is rumored to
have stemmed from a BLM quota reduction of He production from gas
wells. Mike KJ0R may be able to shed some light ...

And better watch out for "balloon" gas; it's heavily diluted with N2, as
ANSR sadly discovered on one of their early flights. The N2 is added
to slow the gross leak rate out of mylar balloons.

Might consider going to a welding supply house or using H2?

73 de Mike W5VSI

wb8elk@... wrote:
> Well...I had heard rumors that this might happen in the near
> future...but it's a reality now....Hank W4HTB and myself are planning to
> fly an ATV repeater balloon on June 16th from Bowling Green, KY....when
> Hank tried to get a helium tank delivered from his local Airgas
> distributor he was told that helium is on allocation and is only being
> delivered to existing customers and they are taking no new helium
> customers at this time.....sure doesn't sound good for the future of
> helium. They managed to get a local party balloon supplier to order a
> tank for them...at a cost of $80.
>
> - Bill WB8ELK
>
>
>
>
>
> ---
> See what's free at AOL.com <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3252. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 04:22:15 UTC
From: Mike Manes
Topic: 3168 Message: 3252

That camera was admittedly a high-stress application, being cantilevered
off the top of the shuttle. PBC no doubt did a job on it. Shoulda added
a safety line. Lesson learned.
73 de Mike W5VSI

PAUL VERHAGE wrote:
> I've never had epoxy fail me. I'm using the 15 or 30 minute stuff fromm hobby shops.
>
> Paul
>
>>>> Mike Manes <manes@...> 06/08/07 6:19 PM >>>
> We've had bad luck with epoxy on externals of balloon payloads. Bill
> Brown's 35mm camera took a shortcut to the deck from where it was epoxied
> to the top of one of our earlier shuttles. Of course, there are a large
> variety of epoxies, but we've never had a >>properly applied<< hot melt
> joint fail; that means both surfaces are burnished and heated to the flow
> temp of the hot melt glue. Best plan is belt & suspenders, however.
>
> 73 de Mike W5VSI
>
> PAUL VERHAGE wrote:
>> I epoxy a piece of basswood into the gap in the wooden ring (which I get from Walmart).
>>
>> There's a meterial called micro bubbles that you can use to change epoxy into a putty
and fill gaps. I've only used it a few times, so I suspect we have a lot of peole here that
can tell you more about it than I can.
>>
>> Paul "hobby shops are my friend"
>>
>>>>> Brek Brixius <gofly2007@...> 06/07/07 4:55 PM >>>
>> Great! We have a Walmart :) I'll look at the plastic ones. I wonder if they have the
wood ones too. I have worked a lot with wood and epoxy. Makes a great combo. BTW, if you
are trying to plug up a hole, you can mix fillers into epoxy to give it strength (like
milled or stranded glass) or colors (like graphite) or just use less epoxy. Whole wheat
flower makes a nice filler. Don't use too much of any filler though or you loose adhesion.
>>
>> Also, I got the message about the Instrumented Ping Pong Ball. That is amazing. I
noticed there are now surface mount Picaxes too. I assume they are smaller like other
surface mount DIPs. Maybe you can make Picaxe Terminator (PT) and his sidekick Mini PT.
>>
>> Brek - KC0YOE
>>
>> PAUL VERHAGE <paul.verhage@...> wrote:
>> I do something similar.
>>

>> I epoxy the inner and outer rings of a wooden embroidery loop together.
>>
>> Paul
>>
>>>>> BASE <basedepauw@...> 6/7/2007 11:39 AM >>>
>> We also use the WalMart embroidery hoops to spread the
>> shroud lines, but we tie the hoops together with
>> several zip ties between the lines around the
>> perimeter of the hoops.
>>
>> Howard Brooks
>> BASE - DePauw
>>
>> --- wb8elk@... wrote:
>>
>>> A quick and easy spreader ring that attaches easily
>>> to the shroud lines
>>> below the parachute canopy are the plastic 2-ring
>>> embroidery hoops available from
>>> Walmart....one ring goes inside the lines and the
>>> other is screwed to the
>>> outside and works quite well.
>>>
>>> - Bill WB8ELK
>>>
>>>
>>>
>>>
>>>
>>> ************************************ See what's
>>> free at http://www.aol.com.
>>>
>>
>>
>>
>> ~~~~~~
>> TV dinner still cooling?
>> Check out "Tonight's Picks" on Yahoo! TV.
>> http://tv.yahoo.com/
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
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>>
>>
>> ---------------------------------
>> It's here! Your new message!
>> Get new email alerts with the free Yahoo! Toolbar.
>>
>> ---------------------------------
>> Building a website is a piece of cake.
>> Yahoo! Small Business gives you all the tools to get online.
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>> Yahoo! Groups Links
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3253. Re: [GPSL] the pic sounds good for the camera ???

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 06:45:14 UTC
From: Brek Brixius
Topic: 3236 Message: 3253

I got my Picaxe (a pic with a BASIC language interpreter installed by the manufacturer).

I love it! I didn't have time to design and etch a printed circuit board for it so, I just bought Radio Shack part #276-0159 Dual IC Board, separated the halves and dropped a 16 pin IC socket on one half.

My Picaxe-08M is only an 8 pin DIP but I loaded it in one end of the socket and wired the programming lines and outputs back to the other end of the socket with jumper wires. You also have to put two resistors on according to instructions available in the manufacturer's literature.

The only thing that I thought was unclear from the manufacturer's diagram was whether the Picaxe should be powered during programming. They show a minimum programming diagram and a minimum operating diagram. The minimum programming diagram does not show a power supply connected but, you need one. The Picaxe is a 5v part but, I was able to program it and experiment with it on 3v (2x AA). I'll want to use a 5 volt power supply when I set it up for the balloon though.

I made a programming cable from a 9 pin serial female connector and hood (also available at radio shack), a piece of telephone wire and 3 prongs that will fit in the open spots on the IC socket.

I downloaded the programming editor from the manufacturer's web page (free download). Installed it on a Windows 98 laptop and I was off and running.

I also put some LED's on the outputs and was making the LED's flash in different patterns. My daughter said, "Nice, but can you make it play Jingle Bells". I looked in the manual and was amazed to find that Jingle Bells is built into it. It can also play 3 other standard tunes or download and play cell phone ring tones.

For the sound output I am using an 8 ohm speaker and a 33 ohm resister. I just soldered prongs onto the leads. After I download the song I want to hear onto the Picaxe, I disconnect the programming cable and plug the speaker leads into the open part of the IC socket to hear the song. Be sure to program it to loop or you might miss it.

Well, if the Picaxe can do all this fun stuff, it can also click a picture on a digital cam every so often or flip a relay on.

What a great thing. Cheap, useful, fun. Hard to beat it in my book.

Brek - KC0YOE

w1lwt <w1lwt@...> wrote:
What would be the requirement to program a pic vs a prom ??

I believe its time to do some reach here. I havent done this one yet.

Ive been useing DTMF codeing and have used my cutting cart
successfully .

But the pic sounds good also.

Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge to see what's on, when.

3254. Re: [GPSL] Smoking Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 12:50:20 UTC
From: Art
Topic: 3168 Message: 3254

>We used to use swivels and found them essentially useless.

The kite people use swivels too and find them essentially useless as well. They have to much internal friction to prevent the line from twisting although they minimize the line twisting-but don't stop it completely.

I did find some specialty swivels that appear to work however. They are slightly pricey (60 to 80 cents each), but they come in 100 to 300 pound ratings so they are quite strong. They are made out of stainless steel and have bearings in them, which is why they work so well.

Haven't tried fishing with them, but they are just awesome for kite flying. I flew one on a micro sled kite that was very prone to line twisting. When the line twists, the opposite ends of the lifting surface come together and the kite collapses-and falls from the sky. I had allot of experience with this kite in particular and it had been frustrating as nothing seemed to work. Even tried dual and triple swivels. But, changing to a single high quality ball bearing swi9vel fixed the problem.

Buy them from any kite flying store.

Enjoy.

Art

3255. Tons of Stuff Litterally!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 15:08:05 UTC
From: Joe
Topic: 3255 Message: 3255

hey, just came across this,, check it out!

http://cgi.govliquidation.com/auction/view?id=1251554&convertTo=USD

hmmmmm,, i wish i lived closer!

Joe NSS

3256. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 19:26:04 UTC
From: wb8elk@aol.com
Topic: 3168 Message: 3256

Hi Mike,

I've always wondered if my "free-fall" camera from your early flight was
eaten by a cow or buffalo and may someday show up again.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3257. Re: [GPSL] the pic sounds good for the camera ???

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-10 20:03:03 UTC
From: PAUL VERHAGE
Topic: 3236 Message: 3257

The PICAXE terminator PCB is complete and I'm running some tests on it while I wait for the pressure sensor. Radio Shack no longer sells the thermistor I was planning to use, so I'll order one from Jameco.

Paul

PS, give the PICAXE power while programming.

>>> Brek Brixius <gofly2007@...> 06/10/07 12:45 AM >>>
I got my Picaxe (a pic with a BASIC language interpreter installed by the manufacturer).

I love it! I didn't have time to design and etch a printed circuit board for it so, I just bought Radio Shack part #276-0159 Dual IC Board, separated the halves and dropped a 16 pin IC socket on one half.

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The only thing that I thought was unclear from the manufacturer's diagram was whether the Picaxe should be powered during programming. They show a minimum programming diagram and a minimum operating diagram. The minimum programming diagram does not show a power supply connected but, you need one. The Picaxe is a 5v part but, I was able to program it and experiment with it on 3v (2x AA). I'll want to use a 5 volt power supply when I set it up for the balloon though.

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Well, if the Picaxe can do all this fun stuff, it can also click a picture on a digital cam every so often or flip a relay on.

What a great thing. Cheap, useful, fun. Hard to beat it in my book.

Brek - KC0YOE

w1lwt <w1lwt@arrl.net> wrote:
What would be the requirement to program a pic vs a prom ??

I believe its time to do some reach here. I havent done this one yet.

Ive been useing DTMF codeing and have used my cutting cart
successfully .

But the pic sounds good also.

Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge to see what's on, when.

3258. Shirt design near final

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 04:37:05 UTC
From: Mark Conner
Topic: 3258 Message: 3258
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3259. Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 16:11:27 UTC
From: kc0nsr
Topic: 3239 Message: 3259

--- In GPSL@yahoogroups.com, wb8elk@... wrote:
>
> Well...I had heard rumors that this might happen in the near
future...but
> it's a reality now....Hank W4HTB and myself are planning to fly an
ATV repeater
> balloon on June 16th from Bowling Green, KY....when Hank tried to get a
> helium tank delivered from his local Airgas distributor he was told
that helium
> is on allocation and is only being delivered to existing customers
and they
> are taking no new helium customers at this time.....sure doesn't
sound good for
> the future of helium. They managed to get a local party balloon
supplier to
> order a tank for them...at a cost of $80.
>
> - Bill WB8ELK
>
>

So hydrogen is our only alternative...?

Has anyone here used H instead of He, and other than the flammability issue, are there any other drawbacks to it? I've never checked on the price, so how does that compare to He?

I suppose if this is going to be a semi-permanent shortage (not sure from reading the articles), I'll at least need a new regulator.

Paul
KC0NSR

3260. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 16:52:57 UTC
From: Harry M
Topic: 3239 Message: 3260

I just checked with my He supplier here in Tulsa and he says he has plenty right now and hasn't heard any rumors about a shortage. I deal with a small Mom-Pop operation for He, but he doesn't have H. I would not even try to deal with AirGas (AG). A while back I went to AG to see about H and they wouldn't even talk to me, even after I produced an ORB business card and showing Fire Service credentials. They started in on a liability issue and just flat said NO. I've found 4 other small local welding & gas suppliers that said I could have all the H I wanted. I don't remember what I was quoted on it.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

3261. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 17:22:32 UTC
From: Harry M
Topic: 3239 Message: 3261

Search this GPSL Yahoo Group for "Hydrogen" and you will find a couple threads on H from back in Jan of this year. Also there is this about the price I was quoted...

"I checked on the price and availability of Helium here in Tulsa yesterday. It has gone up $10 for a K bottle and availability is not guaranteed. I also priced Hydrogen, which is $30 for a K bottle and readily available. I am strongly inclined to start using Hydrogen in the future."

73 Harry KC5TRB

3262. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 17:43:21 UTC
From: Harry M
Topic: 3239 Message: 3262

Here are some other prices I found in my files from back in Jan...

"H2 price is 196 cu/ft $24 - 261 cu/ft $34 and a single stage H2 regulator is $150-$175."

3263. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 18:08:11 UTC
From: mconner1@gmail.com
Topic: 3239 Message: 3263
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3264. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 19:15:18 UTC
From: Harry M
Topic: 3239 Message: 3264

Yep, I found the same one for $85.09 including shipping...
http://www.ottofrei.com/store/product.php?productid=7283&cat=1241&page=1

The suggested retail is around $150. The locals are gouging!

3265. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 19:46:25 UTC
From: mconner1@gmail.com
Topic: 3239 Message: 3265
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3266. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:01:01 UTC
From: Joe
Topic: 3239 Message: 3266

100 PSI!!!???

holy cow!! We use H2 all the time,, you all have hear it before from
us.. anyway,, wow 100 PSI,, we never go above 10 PSI output ansd
that's through a 1.4" id tube!

Joe NSS

mconner1@... wrote:

> This one may not be suitable for filling balloons - the description
> mentions "hold[ing] low output levels used in jewelry repair work,
> without bothersome creep up of output pressure." The one at
> cyberweld.com is intended for up to 100psi on the output, which should
> be a plenty-high vent rate.
>
> Now I suppose you could go naked right off the bottle through just the
> tank valve and a CGA fitting, but I've always found having something
> to indicate tank pressure while filling is pretty handy.
>
> 73 de Mark N9XTN
>
>
> ----- Original Message -----
> From: Harry M <hhm_74115@...>
> Date: Monday, June 11, 2007 2:23 pm
> Subject: Re: [GPSL] Re: Helium Rationing now in effect in Kentucky
> To: GPSL@yahoogroups.com
>
> >
> > >
> > > Yep, I found the same one for $85.09 including shipping...
> > >
> http://www.ottofrei.com/store/product.php?productid=7283&cat=1241&page=1
> > >
> > > The suggested retail is around $150. The locals are gouging!
> > >
> > >
>
>

3267. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:09:55 UTC
From: Joe
Topic: 3239 Message: 3267

make that a 1/4" id tube,, one quarter inch id..

Joe NSS

Joe wrote:

> 100 PSI!!!???
>
> holy cow!! We use H2 all the time,, you all have hear it before
> from us.. anyway,, wow 100 PSI,, we never go above 10 PSI output
> ansd that's through a 1.4" id tube!
>
> Joe NSS
>
> mconner1@... wrote:
>
>> This one may not be suitable for filling balloons - the description
>> mentions "hold[ing] low output levels used in jewelry repair work,
>> without bothersome creep up of output pressure." The one at
>> cyberweld.com is intended for up to 100psi on the output, which
>> should be a plenty-high vent rate.
>>
>> Now I suppose you could go naked right off the bottle through just
>> the tank valve and a CGA fitting, but I've always found having
>> something to indicate tank pressure while filling is pretty handy.
>>
>> 73 de Mark N9XTN
>>
>>
>> ----- Original Message -----
>> From: Harry M <hhm_74115@...>
>> Date: Monday, June 11, 2007 2:23 pm
>> Subject: Re: [GPSL] Re: Helium Rationing now in effect in Kentucky
>> To: GPSL@yahoogroups.com
>>
>> >
>> >
>> > Yep, I found the same one for $85.09 including shipping...
>> >
>> http://www.ottofrei.com/store/product.php?productid=7283&cat=1241&page=1
>> >
>> > The suggested retail is around $150. The locals are gouging!
>> >
>> >
>>
>

3268. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:12:47 UTC
From: Harry M
Topic: 3239 Message: 3268

They are the same Smith part no.
Joe's right, you don't want to go directly off the tank and 20 psi through a reg would be on the top of the safe side. Gotta watch out for moleculer friction with H2.

3269. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:15:36 UTC
From: mconner1@gmail.com
Topic: 3239 Message: 3269
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3270. Re: [GPSL] Hoops to spread shroud

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:24:50 UTC
From: Mike Manes
Topic: 3168 Message: 3270

Hi Bill,

Well, if it does, it'll be in VERY well aged beef! Just in case, suggest you savor your burgers carefully :=}.

Turns out that it probably landed in a sunflower field. AA0P, my son and I trekked thru the one directly below where we DF-triangulated the burst (pre-GPS days)- it was a psychic experience being in an 8-ft deep flower bed! Needless to say, no joy.

73 de Mike W5VSI

wb8elk@... wrote:
> Hi Mike,
>
> I've always wondered if my "free-fall" camera from your early flight
> was eaten by a cow or buffalo and may someday show up again.
>
> - Bill WB8ELK
>
>
>
> ---
> See what's free at AOL.com <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3271. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:37:56 UTC
From: Harry M
Topic: 3239 Message: 3271

Smith only has one H2 reg and it looks different than either one we found. Also CyberWeld lists it as a "light duty", but Smith says it's a med duty. They may have changed the looks of it.

http://www.smithequipment.com/products/pdfpages/page54.pdf

3272. Re: [GPSL] the pic sounds good for the camera ???

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 20:08:40 UTC
From: Mike Manes
Topic: 3236 Message: 3272

Hi Brek,

Yeah, I got my first taste of the impact of the programmed embedded controller on digital hardware design in the early 70's, when one of the most elegant digital designs that I've ever come up with got swallowed up about a year later by an 8008 :=\{.

So I take it that you're considering using the PicAxe in lieu of your 555/4017 design for a timed cutdown?

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> I got my Picaxe (a pic with a BASIC language interpreter installed by
> the manufacturer).
>
> I love it! I didn't have time to design and etch a printed circuit
> board for it so, I just bought Radio Shack part #276-0159 Dual IC Board,
> separated the halves and dropped a 16 pin IC socket on one half.
>
> My Picaxe-08M is only an 8 pin DIP but I loaded it in one end of the
> socket and wired the programming lines and outputs back to the other end
> of the socket with jumper wires. You also have to put two resistors on
> according to instructions available in the manufacturer's literature.
>
> The only thing that I thought was unclear from the manufacturer's
> diagram was whether the Picaxe should be powered during programming.
> They show a minimum programming diagram and a minimum operating
> diagram. The minimum programming diagram does not show a power supply
> connected but, you need one. The Picaxe is a 5v part but, I was able to
> program it and experiment with it on 3v (2x AA). I'll want to use a 5
> volt power supply when I set it up for the balloon though.
>
> I made a programming cable from a 9 pin serial female connector and hood
> (also available at radio shack), a piece of telephone wire and 3 prongs
> that will fit in the open spots on the IC socket.
>
> I downloaded the programming editor from the manufacturer's web page
> (free download). Installed it on a Windows 98 laptop and I was off and
> running.
>
> I also put some LED's on the outputs and was making the LED's flash in
> different patterns. My daughter said, "Nice, but can you make it play
> Jingle Bells". I looked in the manual and was amazed to find that
> Jingle Bells is built into it. It can also play 3 other standard tunes
> or download and play cell phone ring tones.

>
> For the sound output I am using an 8 ohm speaker and a 33 ohm resister.
> I just soldered prongs onto the leads. After I download the song I want
> to hear onto the Picaxe, I disconnect the programming cable and plug the
> speaker leads into the open part of the IC socket to hear the song. Be
> sure to program it to loop or you might miss it.
>
> Well, if the Picaxe can do all this fun stuff, it can also click a
> picture on a digital cam every so often or flip a relay on.
>
> What a great thing. Cheap, useful, fun. Hard to beat it in my book.
>
> Brek - KC0YOE
>
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>
>
>
>
>
> */w1lwt <w1lwt@...>/* wrote:
>
> What would be the requirement to program a pic vs a prom ??
>
> I believe its time to do some reach here. I havent done this one yet.
>
> Ive been useing DTMF codeing and have used my cutting cart
> successfully .
>
> But the pic sounds good also.
>
>
> ---
> Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge
> <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222>to
> see what's on, when.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3273. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 21:46:47 UTC
From: Louis Wilcox
Topic: 3239 Message: 3273

Hi Mark,

We are using a Victor SR450 regulator to fill out balloons with Helium. We typically see 80-100 PSI on the regulator guage while filling. It will empty a 210cuft tank in about 5 minutes. I think if we had a larger diameter hose we could fill even faster.

Louis
ANSR

>
> You won't get 100 PSI on the gage with the free end of the hose being wide open into the balloon, but the regulator internals have to be manufactured open enough to support a decent flow rate. A regulator for jewelers' work may not allow very many cubic ft per minute through the regulator body even if the valves are wide open. I expect that if the regulator only will supply 10-20 psi with a welding tip on, it won't let hydrogen out very fast with nothing on the end of the hose.
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Joe <nss@...>
> Date: Monday, June 11, 2007 3:03 pm
> Subject: Re: [GPSL] Re: Helium Rationing now in effect in Kentucky
> To: GPSL@yahoogroups.com
>
> > 100 PSI!!!???
> >
> > holy cow!! We use H2 all the time,, you all have hear it before
> > from
> > us.. anyway,, wow 100 PSI,, we never go above 10 PSI output
> > ansd
> > that's through a 1.4" id tube!
> >
> > Joe NSS
> >
>
>

--

3274. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 21:46:21 UTC
From: Joe
Topic: 3239 Message: 3274

WOW!!!

we inflate ours very slowly,, an average fill time is 30 to 40 minutes..

YIKES 5 minutes!! I'm amazed it isn;'t one HUGE ice cube!

Joe NSS

Louis Wilcox wrote:

>Hi Mark,
>
> We are using a Victor SR450 regulator to fill out balloons with
>Helium. We typically see 80-100 PSI on the regulator guage while
>filling. It will empty a 210cuft tank in about 5 minutes. I think if
>we had a larger diameter hose we could fill even faster.
>
>Louis
>ANSR
>
>
>
>>You won't get 100 PSI on the gage with the free end of the hose
>>
>>
>being wide open into the balloon, but the regulator internals have to
>be manufactured open enough to support a decent flow rate. A
>regulator for jewelers' work may not allow very many cubic ft per
>minute through the regulator body even if the valves are wide open. I
>expect that if the regulator only will supply 10-20 psi with a welding
>tip on, it won't let hydrogen out very fast with nothing on the end of
>the hose.
>
>
>>73 de Mark N9XTN
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>>----- Original Message -----
>>From: Joe <nss@...>
>>Date: Monday, June 11, 2007 3:03 pm
>>Subject: Re: [GPSL] Re: Helium Rationing now in effect in Kentucky
>>To: GPSL@yahoogroups.com
>>
>>
>>
>>>100 PSI!!!???
>>>

>>>holy cow!! We use H2 all the time,, you all have hear it before
>>>from
>>>us.. anyway,, wow 100 PSI,, we never go above 10 PSI output
>>>ansd
>>>that's through a 1.4" id tube!
>>>
>>>Joe NSS
>>>
>>>
>>>
>>
>>
>
>
>

3275. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 23:04:10 UTC
From: Louis Wilcox
Topic: 3239 Message: 3275

Joe,

The regulator gets mighty cold for sure. We filled one too many
balloons in 10-15 MPH winds and needed a faster fill.

Louis
ANSR
>
> WOW!!!
>
> we inflate ours very slowly,, an average fill time is 30 to 40
minutes..
>
> YIKES 5 minutes!! I'm amazed it isn;'t one HUGE ice cube!
>
> Joe NSS
>
> Louis Wilcox wrote:
>
> >Hi Mark,
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> > We are using a Victor SR450 regulator to fill out balloons with
> >Helium. We typically see 80-100 PSI on the regulator guage while
> >filling. It will empty a 210cuft tank in about 5 minutes. I think
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> >we had a larger diameter hose we could fill even faster.
> >
> >Louis
> >ANSR
> >
> >
> >
> >>You won't get 100 PSI on the gage with the free end of the hose
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> >>
> >being wide open into the balloon, but the regulator internals have
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> >be manufactured open enough to support a decent flow rate. A
> >regulator for jewelers' work may not allow very many cubic ft per
> >minute through the regulator body even if the valves are wide
open. I
> >expect that if the regulator only will supply 10-20 psi with a
welding
> >tip on, it won't let hydrogen out very fast with nothing on the end
of

> >the hose.
> >
> >
> >>73 de Mark N9XTN
> >>
> >>----- Original Message -----
> >>From: Joe <nss@...>
> >>Date: Monday, June 11, 2007 3:03 pm
> >>Subject: Re: [GPSL] Re: Helium Rationing now in effect in Kentucky
> >>To: GPSL@yahoogroups.com
> >>
> >>
> >>
> >>>100 PSI!!!???
> >>>
> >>>holy cow!! We use H2 all the time,, you all have hear it
before
> >>>from
> >>>us.. anyway,, wow 100 PSI,, we never go above 10 PSI output
> >>>ansd
> >>>that's through a 1.4" id tube!
> >>>
> >>>Joe NSS
> >>>
> >>>
> >>>
> >>
> >>
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>

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3276. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 00:48:48 UTC
From: Joe
Topic: 3239 Message: 3276

ahhh

that's why I also only fill inside.. none of this fighting the wind stuff.

remember here NO ONE touches the balloon he he he

Joe

Louis Wilcox wrote:

>Joe,
>
> The regulator gets mighty cold for sure. We filled one too many
>balloons in 10-15 MPH winds and needed a faster fill.
>
>Louis
>ANSR
>
>
>>WOW!!!
>>
>>we inflate ours very slowly,, an average fill time is 30 to 40
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>minutes..
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>>YIKES 5 minutes!! I'm amazed it isn;'t one HUGE ice cube!
>>
>>Joe NSS
>>
>>Louis Wilcox wrote:
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>>
>>
>>>Hi Mark,
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>>> We are using a Victor SR450 regulator to fill out balloons with
>>>Helium. We typically see 80-100 PSI on the regulator guage while
>>>filling. It will empty a 210cuft tank in about 5 minutes. I think
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>if
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>>>we had a larger diameter hose we could fill even faster.

>>>
>>>Louis
>>>ANSR
>>>
>>>
>>>
>>>
>>>
>>>>You won't get 100 PSI on the gage with the free end of the hose
>>>>
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>>>being wide open into the balloon, but the regulator internals have
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>to
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>>>be manufactured open enough to support a decent flow rate. A
>>>regulator for jewelers' work may not allow very many cubic ft per
>>>minute through the regulator body even if the valves are wide
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>>>
>open. I
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>>>expect that if the regulator only will supply 10-20 psi with a
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>>>
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>>>>To: GPSL@yahoogroups.com
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>>>>>holy cow!! We use H2 all the time,, you all have hear it
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>>>>>us.. anyway,, wow 100 PSI,, we never go above 10 PSI output
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>>>>>Joe NSS
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3277. Helium / Hydrogen Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 01:47:08 UTC
From: Nicholas Stich
Topic: 3239 Message: 3277

There is a very simple and cost effective solution to converting to H2 from He or changing between the two gases as required.

McMaster-Carr is your friend and with the following two parts and some teflon tape you are in business for less than $10.

Part# 79215A666
Regulator Fitting Female Thread Inlet Nut, Cga #350, 0.950" Length
In stock at $3.47 Each

Part# 79215A667
Regulator Fitting Inlet Nipple, 1/4" NPT Male, Cga #350, 2.5" Length
In stock at $3.90 Each

And if you had a H2 regulator like I did they sell parts to let you convert it to He which has worked just great for me.

Hope to see you all at GPSL.

Nick Stich
K0NMS

3278. Re: [GPSL] Helium / Hydrogen Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 02:05:54 UTC
From: Joe
Topic: 3239 Message: 3278

just make sure it's correct dimentions.

and left hand thrread to boot,, ansd the nut does little to nothing to seal the 3000#+ pressure.

I never even use a tool on mine,, finger tight is plenty and has never leaked yet.

Joe @ NSS

Nicholas Stich wrote:

>There is a very simple and cost effective solution to converting to
>H2 from He or changing between the two gases as required.
>
>McMaster-Carr is your friend and with the following two parts and
>some teflon tape you are in business for less than $10.
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>
>And if you had a H2 regulator like I did they sell parts to let you
>convert it to He which has worked just great for me.
>
>Hope to see you all at GPSL.
>
>Nick Stich
>K0NMS
>
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>
>Yahoo! Groups Links
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3279. Re: [GPSL] the pic sounds good for the camera ???

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 05:13:18 UTC
From: Brek Brixius
Topic: 3236 Message: 3279

Hi Mike:

No, I am NOT planning to use the Picaxe on the cutdown for GPSL 2007. I am planning to use it on my cameras in place of the 555s there.

I got the Barro Switch that you sent today. Thank you very much for the loan. I got it worked into a cutdown unit. It weighs 7 oz. with battery and plenty of cord. I will still want to add some tape or glue to hold the lid closed. Say I add an oz. of tape, is a total of about 8 oz. too heavy to mount top of the parachute?

Right now, the cutdown hardware with the Barro Switch, Burner Coil and Battery is weighing about 4 oz. like you predicted. The foam package and cord though weigh another 3 oz.

BTW, the Barro Switch is pretty neat. I wish I could watch it expand in and close the switch though. :)

Thanks Again.
Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

Yeah, I got my first taste of the impact of the programmed embedded
controller on digital hardware design in the early 70's, when one of the
most elegant digital designs that I've ever come up with got swallowed
up about a year later by an 8008 :={.

So I take it that you're considering using the PicAxe in lieu of your
555/4017 design for a timed cutdown?

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> I got my Picaxe (a pic with a BASIC language interpreter installed by
> the manufacturer).
>
> I love it! I didn't have time to design and etch a printed circuit
> board for it so, I just bought Radio Shack part #276-0159 Dual IC Board,
> separated the halves and dropped a 16 pin IC socket on one half.
>
> My Picaxe-08M is only an 8 pin DIP but I loaded it in one end of the
> socket and wired the programming lines and outputs back to the other end
> of the socket with jumper wires. You also have to put two resistors on
> according to instructions available in the manufacturer's literature.
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> The only thing that I thought was unclear from the manufacturer's
> diagram was whether the Picaxe should be powered during programming.

> They show a minimum programming diagram and a minimum operating
> diagram. The minimum programming diagram does not show a power supply
> connected but, you need one. The Picaxe is a 5v part but, I was able to
> program it and experiment with it on 3v (2x AA). I'll want to use a 5
> volt power supply when I set it up for the balloon though.
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> I made a programming cable from a 9 pin serial female connector and hood
> (also available at radio shack), a piece of telephone wire and 3 prongs
> that will fit in the open spots on the IC socket.
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> I downloaded the programming editor from the manufacturer's web page
> (free download). Installed it on a Windows 98 laptop and I was off and
> running.
>
> I also put some LED's on the outputs and was making the LED's flash in
> different patterns. My daughter said, "Nice, but can you make it play
> Jingle Bells". I looked in the manual and was amazed to find that
> Jingle Bells is built into it. It can also play 3 other standard tunes
> or download and play cell phone ring tones.
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> For the sound output I am using an 8 ohm speaker and a 33 ohm resister.
> I just soldered prongs onto the leads. After I download the song I want
> to hear onto the Picaxe, I disconnect the programming cable and plug the
> speaker leads into the open part of the IC socket to hear the song. Be
> sure to program it to loop or you might miss it.
>
> Well, if the Picaxe can do all this fun stuff, it can also click a
> picture on a digital cam every so often or flip a relay on.
>
> What a great thing. Cheap, useful, fun. Hard to beat it in my book.
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> Brek - KC0YOE
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> */w1lwt <w1lwt@...>/* wrote:
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> I believe its time to do some reach here. I havent done this one yet.
>
> Ive been useing DTMF codeing and have used my cutting cart
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>
> But the pic sounds good also.

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> ---
> Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge
> <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222>to
> see what's on, when.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
Yahoo! oneSearch: Finally, mobile search that gives answers, not web links.

3280. Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 18:05:17 UTC
From: BASE
Topic: 3239 Message: 3280

Dear friends,

Please pardon/ignore this question, if you find it too simple.

First some brief background. We have been flying the system from StratoStar and have never flown APRS (five flights).

However, the idea of a back-up system using APRS, that is also accessible via APRS-IS to our partner K-12 schools has led us to enter the APRS domain using a Garmin 18 LVC and a Micro-Trak 300. As for the antenna, the web literature discusses Big Wheel, dipole, folded dipole, J-pole, ...

Now, the simple question: Which type of antenna do you use/prefer for your balloon borne APRS?

I'm interested in what has worked well (and hopefully survived) for you. Feel free to respond directly to me, if you prefer.

Thanks,
Howard
BASE-DePauw
hlbrooks@...
www.depauw.edu/acad/physics/base

Got a little couch potato?
Check out fun summer activities for kids.
http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz

3281. fill rates and Helium / Hydrogen Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 18:18:45 UTC
From: K. Mark Caviezel
Topic: 3281 Message: 3281

RE Helium / Hydrogen Regulator
Posted by: "Nicholas Stich" NStich@... nstich48

Nicholas has it right: swap out the CGA 580 inert gas nipple (and nut) for a CGA 350 flammable gas nipple and nut. His McMaster-Carr reference is great, and any welding shop worth the name will have these in stock.

I used to work at a place that had over a dozen different compressed gasses and we would swap CGA nipples all the time. The whole point of 'the one size fits only one' method is to prevent someone from feeding an oxidizer into a flammable gas system, or an inert gas into a breathing air system. There is no reason to get a whole new regulator for a different gas (with the exception of Oxygen, which requires a properly cleaned regulator). Just make sure to be careful to avoid gas confusion.

The best way to make the swap is to grip to regulator body in a vise, then use a 6 point box end 11/16" wrench or deep socket to unscrew the nipple. Do not use an open ended wrench, DO NOT use an adjustable wrench, and heaven help us if you'd consider doing this with vise-grips or pliars. A normal 12-point wrench or socket is the only acceptable alternative. Unchuck the regulator body, and be sure to clean the teflon tape residue from the reg high pressure inlet before screwing in your new nipple (wrapped with teflon tape). Use of the less appropriate tools will significantly degrade the CGA nipple in question.

Personally, though, I take advice from the Navy Ballooning manual, and do not use a regulator. With cautious opening of the gas valve, the initial flow is modest. After the gas path is established (plastic balloon fill tube verified to be flowing without constriction), we accelerate things a lot. On the ES-OS SEVEN flight (152 lb payload) we dumped a T-bottle (291 st cubic feet) every 30-40 seconds. As it turned out, a slower rate would have failed the mission as ten minutes after launch, a wind gust that certainly would have failed the balloon came out of no where. I was really glad we had filled fast and launched when we did.

- Mark Caviezel, ng0x

3282. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 18:33:48 UTC
From: mconner1@gmail.com
Topic: 3239 Message: 3282
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3283. Re: [GPSL] fill rates and Helium / Hydrogen Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 18:52:34 UTC
From: mconner1@gmail.com
Topic: 3281 Message: 3283
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3284. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-11 21:45:39 UTC
From: Mike Manes
Topic: 3239 Message: 3284

Harry's caveat re "molecular friction" echoes one from one of our EOSS members, Mike N0MPM, who works at a local refinery. There are certain risks associated with the intense vortexes generated at a barely cracked valve on a high-pressure H2 bottle. Perhaps the H2 regulators are designed to mitigate that risk.

One other hazard with H2 is the possibility of static discharge from the flow friction, etc. Anyone know how to manage that one?

73 de Mike W5VSI

Harry M wrote:
> They are the same Smith part no.
> Joe's right, you don't want to go directly off the tank and 20 psi
> through a reg would be on the top of the safe side. Gotta watch out for
> moleculer friction with H2.
>
>
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3285. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 20:34:38 UTC
From: Joe
Topic: 3239 Message: 3285

Go Slow?

Mike Manes wrote:

>Harry's caveat re "molecular friction" echoes one from one of our EOSS
>members, Mike N0MPM, who works at a local refinery. There are certain
>risks associated with the intense vortexes generated at a barely
>cracked valve on a high-pressure H2 bottle. Perhaps the H2 regulators are
>designed to mitigate that risk.
>
>One other hazard with H2 is the possibility of static discharge from the
>flow friction, etc. Anyone know how to manage that one?
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>Harry M wrote:
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>>through a reg would be on the top of the safe side. Gotta watch out for
>>moleculer friction with H2.
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>>
>>
>>

3286. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 21:17:01 UTC
From: Mike Manes
Topic: 3239 Message: 3286

Hi Joe,

Lucky guy to have such a hangar with downwind doors. We'd need a door at least 20 ft high and 10 ft wide to move a 3000 gm with 35 lb neck lift out to the runway.

And then, of course, the wind's still there just outside the door ...

Space Data has a windy launch rig comprising a nylon bag, big enough to contain the inflated balloon, with a velcro tape seam running lengthwise along the top. Weighoff for fill includes the bag weight. When fill's complete, the balloonmeister simply unzips the velcro tape from the neck to the top, and bingo ... it's now up to the payload handlers to balance ascent rate vs. gravity :=}

73 de Mike W5VSI, EOSS

Joe wrote:
> ahhh
>
> that's why I also only fill inside.. none of this fighting the wind stuff.
>
> remember here NO ONE touches the balloon he he he
>
> Joe
>
> Louis Wilcox wrote:
>> Joe,
>>
>> The regulator gets mighty cold for sure. We filled one too many
>> balloons in 10-15 MPH winds and needed a faster fill.
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>> Louis
>> ANSR
>>
>>> WOW!!!
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>>> we inflate ours very slowly,, an average fill time is 30 to 40
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>>> YIKES 5 minutes!! I'm amazed it isn;'t one HUGE ice cube!
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>>> Joe NSS
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>>> Louis Wilcox wrote:

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>>>> Hi Mark,
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>>>> Helium. We typically see 80-100 PSI on the regulator guage while
>>>> filling. It will empty a 210cuft tank in about 5 minutes. I think
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>>>> Louis
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>>>> tip on, it won't let hydrogen out very fast with nothing on the end
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>>>>> 73 de Mark N9XTN
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>>>>> ----- Original Message -----
>>>>> From: Joe <nss@...>
>>>>> Date: Monday, June 11, 2007 3:03 pm
>>>>> Subject: Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

>>>>> To: GPSL@yahoogroups.com
>>>>>
>>>>>
>>>>>
>>>>>
>>>>>> 100 PSI!!!???
>>>>>>
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>> before
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>>>>> >from
>>>>>
>>>>>> us.. anyway,, wow 100 PSI,, we never go above 10 PSI output
>>>>>> ansd
>>>>>> that's through a 1.4" id tube!
>>>>>>
>>>>>> Joe NSS
>>>>>>
>>>>>>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3287. Re: [GPSL] the pic sounds good for the camera ???

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 22:59:45 UTC
From: Mike Manes
Topic: 3236 Message: 3287

Hi Brek,

The baroswitch assy weighed in at 28 gm - about 1 oz - before I added the zip cord. And the burner with its thermal housing shouldn't be over about 50 gm max (2 oz). 19 ft of 500# nylon cord weighs about 1 oz. So I guess those batts come in about 3 oz. Not bad.

Now, you don't need a lot of thermal insulation around the whole cutdown assembly, since nothing in there's very temp sensitive (the batts do warm up FAST when loaded at 5+A). Just need enough to provide some mechanical protection; 0.38" foamcore would do the job fine.

Note that the EOSS baro-armed fast release with a backup release burner (no batts or relays, tho) comes in at 6.4 oz. The batts and relays are housed in a pouch inside the 'chute canopy about 2 ft down from the apex, so they're part of the parachute weight and don't contribute much to instability.

Bottom line: fly it! I think it'll do fine! Just be sure to secure the cutdown assy to the top of the chute so it'll be sure to come home.

You're not missing much watching the baro switch operate. Max displacement is only about 0.19" from the deck here in Denver to 10 mbar. Maybe someday you'll garner a vacuum pump and bell jar ... it took EOSS about 13 years!

73 de Mike W5VSI

Brek Brixius wrote:
> Hi Mike:
>
> No, I am NOT planning to use the Picaxe on the cutdown for GPSL 2007. I
> am planning to use it on my cameras in place of the 555s there.
>
> I got the Barro Switch that you sent today. Thank you very much for the
> loan. I got it worked into a cutdown unit. It weighs 7 oz. with
> battery and plenty of cord. I will still want to add some tape or glue
> to hold the lid closed. Say I add an oz. of tape, is a total of about
> 8 oz. too heavy to mount top of the parachute?
>
> Right now, the cutdown hardware with the Barro Switch, Burner Coil and
> Battery is weighing about 4 oz. like you predicted. The foam package
> and cord though weigh another 3 oz.
>
> BTW, the Barro Switch is pretty neat. I wish I could watch it expand in
> and close the switch though. :)
>
> Thanks Again.

> Brek - KC0YOE
>
>
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Brek,
>
> Yeah, I got my first taste of the impact of the programmed embedded
> controller on digital hardware design in the early 70's, when one of the
> most elegant digital designs that I've ever come up with got swallowed
> up about a year later by an 8008 :={.
>
> So I take it that you're considering using the PicAxe in lieu of your
> 555/4017 design for a timed cutdown?
>
> 73 de Mike W5VSI, EOSS
>
> Brek Brixius wrote:
> > I got my Picaxe (a pic with a BASIC language interpreter
> installed by
> > the manufacturer).
> >
> > I love it! I didn't have time to design and etch a printed circuit
> > board for it so, I just bought Radio Shack part #276-0159 Dual IC
> Board,
> > separated the halves and dropped a 16 pin IC socket on one half.
> >
> > My Picaxe-08M is only an 8 pin DIP but I loaded it in one end of the
> > socket and wired the programming lines and outputs back to the
> other end
> > of the socket with jumper wires. You also have to put two
> resistors on
> > according to instructions available in the manufacturer's literature.
> >
> > The only thing that I thought was unclear from the manufacturer's
> > diagram was whether the Picaxe should be powered during programming.
> > They show a minimum programming diagram and a minimum operating
> > diagram. The minimum programming diagram does not show a power
> supply
> > connected but, you need one. The Picaxe is a 5v part but, I was
> able to
> > program it and experiment with it on 3v (2x AA). I'll want to use
> a 5
> > volt power supply when I set it up for the balloon though.
> >
> > I made a programming cable from a 9 pin serial female connector
> and hood
> > (also available at radio shack), a piece of telephone wire and 3
> prongs

> > that will fit in the open spots on the IC socket.
> >
> > I downloaded the programming editor from the manufacturer's web page
> > (free download). Installed it on a Windows 98 laptop and I was
> off and
> > running.
> >
> > I also put some LED's on the outputs and was making the LED's
> flash in
> > different patterns. My daughter said, "Nice, but can you make it
> play
> > Jingle Bells". I looked in the manual and was amazed to find that
> > Jingle Bells is built into it. It can also play 3 other standard
> tunes
> > or download and play cell phone ring tones.
> >
> > For the sound output I am using an 8 ohm speaker and a 33 ohm
> resister.
> > I just soldered prongs onto the leads. After I download the song
> I want
> > to hear onto the Picaxe, I disconnect the programming cable and
> plug the
> > speaker leads into the open part of the IC socket to hear the
> song. Be
> > sure to program it to loop or you might miss it.
> >
> > Well, if the Picaxe can do all this fun stuff, it can also click a
> > picture on a digital cam every so often or flip a relay on.
> >
> > What a great thing. Cheap, useful, fun. Hard to beat it in my book.
> >
> > Brek - KC0YOE
> >
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> >
> > */w1lwt <w1lwt@... <mailto:w1lwt%40arrl.net>>/* wrote:
> >
> > What would be the requirement to program a pic vs a prom ??
> >
> > I believe its time to do some reach here. I havent done this one yet.
> >
> > Ive been useing DTMF codeing and have used my cutting cart
> > successfully .
> >
> > But the pic sounds good also.

> >
> >
> > ---
> > Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge
> >
> <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222
> <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222>>to
>
> > see what's on, when.
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> --
> Yahoo! oneSearch: Finally, mobile search that gives answers
> <http://us.rd.yahoo.com/evt=48252/*http://mobile.yahoo.com/mobileweb/onesearch?refer=1ONXIC>,
> not web links.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3288. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 23:00:35 UTC
From: Mike Manes
Topic: 3239 Message: 3288

Hi Howard,

The "roll-up" 2m J-pole, similar to the MJF product, has served
EOSS well on multiple beacons running just 0.35 W xmit power.

We roll our own using just 1/4 wave of 300-ohm twin lead plus
1/2 wave of teflon hookup wire for the radiating element. And,
most importantly, RG-142 B/U coax for low-temp flexibility and
mechanical robustness. The antenna is strapped loosely to the
payload line to keep it near vertical in flight.

The wire J-pole provides about 5 dBi gain, has a verically polarized
omni pattern (good for DFing), is lightweight and robust, and most
importantly, unlike a 1/4 raditor, it generates very little "counterpoise
current" which can play havoc with the sensitive bits inside your
beacon package.

We use a 70cm Little Wheel for ATV, since we need all the gain we
can get. But it's heavy, and unless it's beefed up to tolerate a
parachute drag, it can demand a lot of preflight service to repair
broken solder joints.

73 de Mike W5VSI, EOSS

BASE wrote:
> Dear friends,
>
> Please pardon/ignore this question, if you find it too
> simple.
>
> First some brief background. We have been flying the
> system from StratoStar and have never flown APRS (five
> flights).
>
> However, the idea of a back-up system using APRS, that
> is also accessible via APRS-IS to our partner K-12
> schools has led us to enter the APRS domain using a
> Garmin 18 LVC and a Micro-Trak 300. As for the
> antenna, the web literature discusses Big Wheel,
> dipole, folded dipole, J-pole, ...
>
> Now, the simple question: Which type of antenna do
> you use/prefer for your balloon borne APRS?
>
> I'm interested in what has worked well (and hopefully
> survived) for you. Feel free to respond directly to

> me, if you prefer.
>
> Thanks,
> Howard
> BASE-DePauw
> hlbrooks@...
> www.depauw.edu/acad/physics/base
>
>
>
> ~~~~~~
> Got a little couch potato?
> Check out fun summer activities for kids.
> http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz
>
>
>
> Yahoo! Groups Links
>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3289. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 22:53:06 UTC
From: Harry M
Topic: 3239 Message: 3289

I would feel comfortable with an aircraft refueling type 3-point ground!

Here's some thoughts on the static from Pete Sias...

... They also said that the hose should be braided and
grounded. Not able to find that and not wanting to pay
the price for that type of hose, I used standard
welders oxygen hose. The thinking or fear is that
friction of Hydrogen flow with start a fire. I keep
the flow low, < 10psi on the regulator output gauge.

I run a bare grounding wire from the tank (regulator)
to my filling nozzle / scale system. See my web page
on balloons... WWW.petesias.com

This is to provide a common point with no potential
difference between the balloon attachment point and
the tank. Also this wire is used to ground personnel
before touching the neck during tie off.

hhm

3290. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 22:58:45 UTC
From: Harry M
Topic: 3239 Message: 3290

> Space Data has a windy launch rig comprising a nylon bag, big enough to
> contain the inflated balloon...

All of the balloons that the Severe Storms Lab in Norman, Ok launch into stornm updrafts are launched using a bag. They launch in the open in 30mph+ winds. They use a U-Haul truck that transports the filled balloon in the bag to the launch site.

hhm

3291. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 23:11:43 UTC
From: Joe
Topic: 3239 Message: 3291

yeah but they don't "Fill" the balloon out in the wind either

Joe @ NSS

Harry M wrote:

>>Space Data has a windy launch rig comprising a nylon bag, big enough to
>>contain the inflated balloon...
>>
>>
>
>All of the balloons that the Severe Storms Lab in Norman, Ok launch into
>stornm updrafts are launched using a bag. They launch in the open in 30mph+
>winds. They use a U-Haul truck that transports the filled balloon in the bag
>to the launch site.
>
>
>hhm
>
>
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>Yahoo! Groups Links
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>

3292. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 23:10:55 UTC
From: Joe
Topic: 3239 Message: 3292

Wow we think alike!

Joe @ NSS

Harry M wrote:

> I would feel comfortable with an aircraft refueling type 3-point ground!
>
> Here's some thoughts on the static from Pete Sias...
>
>
> ... They also said that the hose should be braided and
> grounded. Not able to find that and not wanting to pay
> the price for that type of hose, I used standard
> welders oxygen hose. The thinking or fear is that
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> This is to provide a common point with no potential
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> before touching the neck during tie off.
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>
> hhm
>

3293. Re: [GPSL] Re: Helium Rationing now in effect in Kentucky

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-12 23:40:36 UTC
From: wb8elk@aol.com
Topic: 3239 Message: 3293

The folks at the Severe Storm lab sent me a photo of their velcro plastic balloon inflation bag (as I recall it was essentially a bag made out of bubble wrap in their original rendition with a velcro strip down the length of it)....I believe that was back in the early 90's when they sent me that photo.

Space Data does indeed inflate their balloon in the bag outside in high winds.

The bagged balloon method works well...but you have to carefully calculate the amount of helium you've pumped into it if you are inflating in a high wind since it'd be almost impossible to measure the lift in that situation....and yes, if you have a large van, panel truck or U-Haul...you can transport your balloon in the bag to your launch site in front of or inside the Twister.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3294. Re: Final Cutdown

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-13 01:41:35 UTC
From: Brek Brixius
Topic: 3236 Message: 3294

I repacked it one last time. I got it down to 5 oz with some lighter foam. I hope it will fly well. I guess we will find out in a few days. I'm a lot happier with 5 oz. though. :)

Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

The baroswitch assy weighed in at 28 gm - about 1 oz - before I added the zip cord. And the burner with its thermal housing shouldn't be over about 50 gm max (2 oz). 19 ft of 500# nylon cord weighs about 1 oz. So I guess those batts come in about 3 oz. Not bad.

Now, you don't need a lot of thermal insulation around the whole cutdown assembly, since nothing in there's very temp sensitive (the batts do warm up FAST when loaded at 5+A). Just need enough to provide some mechanical protection; 0.38" foamcore would do the job fine.

Note that the EOSS baro-armed fast release with a backup release burner (no batts or relays, tho) comes in at 6.4 oz. The batts and relays are housed in a pouch inside the 'chute canopy about 2 ft down from the apex, so they're part of the parachute weight and don't contribute much to instability.

Bottom line: fly it! I think it'll do fine! Just be sure to secure the cutdown assy to the top of the chute so it'll be sure to come home.

You're not missing much watching the baro switch operate. Max displacement is only about 0.19" from the deck here in Denver to 10 mbar. Maybe someday you'll garner a vacuum pump and bell jar ... it took EOSS about 13 years!

73 de Mike W5VSI

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> 8 oz. too heavy to mount top of the parachute?
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> BTW, the Barro Switch is pretty neat. I wish I could watch it expand in
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> > (also available at radio shack), a piece of telephone wire and 3
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> > I downloaded the programming editor from the manufacturer's web page
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> > Ive been useing DTMF codeing and have used my cutting cart
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> > But the pic sounds good also.
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> <http://us.rd.yahoo.com/evt=48252/*http://mobile.yahoo.com/mobileweb/onesearch?refer=1ON
XIC>,
> not web links.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge to see what's on, when.

Boardwalk for $500? In 2007? Ha!
Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.

3295. GPSL 2007 T-shirts ready for ordering

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-13 04:41:28 UTC
From: Mark Conner
Topic: 3295 Message: 3295

The 2007 T-shirt is now ready for ordering at Zazzle. I made a minor change to the back of the shirt - the photo of the balloon has a blurred border so it's not so boxy-looking.

http://www.zazzle.com/mconner1/product/235793445906342262

You *must* customize the front of the shirt, otherwise it'll say "Your Name or Call Here". Just hit the "Customize this design" button, select the front view of the shirt, then click on the "Edit" button next to "Your Name or Call Here" and enter your name or call. Then pick your shirt size and add it to your cart.

If you don't want the "Premium" t-shirt, select another type. Polos, sweatshirts, and kids/ladies T's are also available. Selecting white is probably best for shirt color, but this design should print OK on gray and perhaps other light colors. The premium shirt has sharper graphics and better longevity than the regular shirts - my 2006 premium shirt is as good as the day I got it, while my 2005 "basic" shirt began to fade quite a bit after a few washings.

I will be placing an order for NSTAR members by June 22nd. If you have problems ordering, let me know at n9xtn@... and I can add your order to ours and bring the shirts to GPSL Friday morning (I won't be arriving until then). I would encourage other groups to order in bulk to save shipping - each shirt is about $6 to send individually, but goes down from there. Ordering shirts in quantity lowers the price too.

If you have questions or any difficulties with ordering, let me know.

73 de Mark N9XTN

3296. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-13 05:52:16 UTC
From: P. Suryono Adisoemarta
Topic: 3239 Message: 3296

--- BASE <basedepauw@...> wrote:

...
>
> However, the idea of a back-up system using APRS,
> that
> is also accessible via APRS-IS to our partner K-12
> schools has led us to enter the APRS domain using a
> Garmin 18 LVC and a Micro-Trak 300. As for the
> antenna, the web literature discusses Big Wheel,
> dipole, folded dipole, J-pole, ...
>
> Now, the simple question: Which type of antenna do
> you use/prefer for your balloon borne APRS?

I used a folded dipole, very easy to build and
survived several flights.

Paulus - N5SNN

_____
Get the free Yahoo! toolbar and rest assured with the added security of spyware protection.
http://new.toolbar.yahoo.com/toolbar/features/norton/index.php

3297. Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-14 22:21:34 UTC
From: Roger Hammond
Topic: 3297 Message: 3297

Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days before hand, but I'd like to confirm as many as possible by the end of this weekend. It will be a buffet-style catered by the hotel and the cost is just under $12. Please respond even if you've already given me a count, that way I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

3298. RE: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-14 22:27:10 UTC
From: Patterson, David
Topic: 3297 Message: 3298

Count Taylor U in for four, please... see you then!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Roger Hammond
Sent: Thu 6/14/2007 6:21 PM
To: GPSL list
Subject: [GPSL] Conference Lunch

Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days before hand, but I'd like to confirm as many as possible by the end of this weekend. It will be a buffet-style catered by the hotel and the cost is just under $12. Please respond even if you've already given me a count, that way I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

3299. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-14 22:50:10 UTC
From: Harry M
Topic: 3297 Message: 3299

ORB

1 possibly 2

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> Now that we're only a few weeks away from GPSL 2007, I need a final head
> count
> for lunch on Friday...

3300. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-14 23:23:48 UTC
From: Brek Brixius
Topic: 3297 Message: 3300

BUNS - Two.

Brek - KC0YOE

Roger Hammond <rahammond@...> wrote:
Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days before hand, but I'd like to confirm as many as possible by the end of this weekend. It will be a buffet-style catered by the hotel and the cost is just under $12. Please respond even if you've already given me a count, that way I can confirm what I have and no one gets left out.

73 de Roger KC?MWM

Be a better Heartthrob. Get better relationship answers from someone who knows.
Yahoo! Answers - Check it out.

3301. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 01:25:01 UTC
From: PAUL VERHAGE
Topic: 3297 Message: 3301

There will be two of us.

By the way, I have most of the welcome packets put together (I'm waiting for Nuts and Volts next week). Ralph's plaque will be done in about a week.

Thanks for hosting this year.

Paul

>>> "Roger Hammond" <rahammond@...> 06/14/07 4:21 PM >>>
Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days
before hand, but I'd like to confirm as many as possible by the end of this
weekend. It will be a buffet-style catered by the hotel and the cost is just
under $12. Please respond even if you've already given me a count, that way
I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

3302. RE: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 02:26:00 UTC
From: Roger Hammond
Topic: 3297 Message: 3302

You're welcome. Thanks for getting those together. I've got three OT1+ kits on the way, donated by Scott Miller, N1VG

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Thursday, June 14, 2007 8:25 PM
To: GPSL@...m
Subject: Re: [GPSL] Conference Lunch

There will be two of us.

By the way, I have most of the welcome packets put together (I'm waiting for Nuts and Volts next week). Ralph's plaque will be done in about a week.

Thanks for hosting this year.

Paul

>>> "Roger Hammond" <rahammond@charter. <mailto:rahammond%40charter.net> net> 06/14/07 4:21 PM >>>
Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days
before hand, but I'd like to confirm as many as possible by the end of this
weekend. It will be a buffet-style catered by the hotel and the cost is just
under $12. Please respond even if you've already given me a count, that way
I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

3303. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 02:57:54 UTC
From: Mark Conner
Topic: 3297 Message: 3303

NSTAR presently has 2.
73 de Mark N9XTN

On 6/14/07, Roger Hammond <rahammond@...> wrote:
>
> Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday.

3304. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 10:42:51 UTC
From: Troy Campbell
Topic: 3297 Message: 3304

Roger,
CAPnSPACE/
Near Space Ventures - 8

Troy

Roger Hammond <rahammond@...> wrote:
Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days before hand, but I'd like to confirm as many as possible by the end of this weekend. It will be a buffet-style catered by the hotel and the cost is just under $12. Please respond even if you've already given me a count, that way I can confirm what I have and no one gets left out.

73 de Roger KC?MWM

Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge to see what's on, when.

3305. RE: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 10:48:27 UTC
From: Roger Hammond
Topic: 3297 Message: 3305

Thanks Troy!
....Oh, got your check for He too!

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Friday, June 15, 2007 5:43 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Conference Lunch

Roger,
CAPnSPACE/
Near Space Ventures - 8

Troy

Roger Hammond <rahammond@...> wrote:

Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days before hand, but I'd like to confirm as many as possible by the end of this weekend. It will be a buffet-style catered by the hotel and the cost is just under $12. Please respond even if you've already given me a count, that way I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

Sick sense of humor? Visit Yahoo! TV's Comedy <http://us.rd.yahoo.com/evt=47093/*http://tv.yahoo.com/collections/222> with an Edge to see what's on, when.

3306. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 12:10:42 UTC
From: BASE
Topic: 3297 Message: 3306

Dear Roger,

There will be seven folks from DePauw for the
luncheon.

Thanks,
Howard
--- Roger Hammond <rahammond@...> wrote:

> Now that we're only a few weeks away from GPSL 2007,
> I need a final head
> count for lunch on Friday. The hotel doesn't t need
> to know until a few days
> before hand, but I'd like to confirm as many as
> possible by the end of this
> weekend. It will be a buffet-style catered by the
> hotel and the cost is just
> under $12. Please respond even if you've already
> given me a count, that way
> I can confirm what I have and no one gets left out.
>
> 73 de Roger KC?MWM
>
>
>

Be a better Heartthrob. Get better relationship answers from someone who knows. Yahoo!
Answers - Check it out.
http://answers.yahoo.com/dir/?link=list&sid=396545433

3307. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-15 18:53:13 UTC
From: wb8elk@aol.com
Topic: 3297 Message: 3307

2 for lunch in my party - WB8ELK

********** See what's free at http://www.aol.com.

3308. PICAXE Terminator

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-16 18:23:03 UTC
From: PAUL VERHAGE
Topic: 3308 Message: 3308

I've tested the design and am happy with it. It logs start temperature and pressure, time, temp, and pressure at the tropopause, and also at cutdown. The Terminator cuts down based on mission elapsed time, wind chill on descent, and increasing pressure. I'll email a copy of the code and a parts list when I get back from my teachers conference. I'll also bring several PCBs with me to GPSL.

There's room for another 80 or so bytes of data, so you can modify the code to record more frequently.

Paul

3309. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-17 15:47:58 UTC
From: Brek Brixius
Topic: 3239 Message: 3309

I am wondering if my antenna will work well enough. It's a 1/4 wave speaker wire dipole. The speaker wire is glued with hot glue into some pipe insulation to support the dipoles but yet remain flexible. I was actually planning to use two of these antenna. One for the cw beacon and one for the APRS. I have tested them in operation here on the ground and they work well. Will they work as well in the air?

I also have a roll up shirt pocket J-Pole but was not planning to fly it because I think the plastic would not stand the cold very well.

Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Howard,

The "roll-up" 2m J-pole, similar to the MJF product, has served
EOSS well on multiple beacons running just 0.35 W xmit power.

We roll our own using just 1/4 wave of 300-ohm twin lead plus
1/2 wave of teflon hookup wire for the radiating element. And,
most importantly, RG-142 B/U coax for low-temp flexibility and
mechanical robustness. The antenna is strapped loosely to the
payload line to keep it near vertical in flight.

The wire J-pole provides about 5 dBi gain, has a verically polarized
omni pattern (good for DFing), is lightweight and robust, and most
importantly, unlike a 1/4 raditor, it generates very little "counterpoise
current" which can play havoc with the sensitive bits inside your
beacon package.

We use a 70cm Little Wheel for ATV, since we need all the gain we
can get. But it's heavy, and unless it's beefed up to tolerate a
parachute drag, it can demand a lot of preflight service to repair
broken solder joints.

73 de Mike W5VSI, EOSS

BASE wrote:
> Dear friends,
>
> Please pardon/ignore this question, if you find it too
> simple.
>
> First some brief background. We have been flying the
> system from StratoStar and have never flown APRS (five
> flights).
>
> However, the idea of a back-up system using APRS, that

> is also accessible via APRS-IS to our partner K-12
> schools has led us to enter the APRS domain using a
> Garmin 18 LVC and a Micro-Trak 300. As for the
> antenna, the web literature discusses Big Wheel,
> dipole, folded dipole, J-pole, ...
>
> Now, the simple question: Which type of antenna do
> you use/prefer for your balloon borne APRS?
>
> I'm interested in what has worked well (and hopefully
> survived) for you. Feel free to respond directly to
> me, if you prefer.
>
> Thanks,
> Howard
> BASE-DePauw
> hlbrooks@...
> www.depauw.edu/acad/physics/base
>
>
>
> ~~~~~~
> Got a little couch potato?
> Check out fun summer activities for kids.
> http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
Be a better Heartthrob. Get better relationship answers from someone who knows.
Yahoo! Answers - Check it out.

3310. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-17 18:21:30 UTC
From: Harry M
Topic: 3239 Message: 3310

Hi Brek,

So far I have used the same dipoles on 21 flights and have had real good performance out of them. I use speaker wire and RC car antenna tubing for the support for the hot radial. I leave the ground radial hanging down loose with no support.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3311. GPSL Helium

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-17 22:11:30 UTC
From: Roger Hammond
Topic: 3311 Message: 3311
Attachments: 1 described; binary payloads are missing from this source WARC

I'm placing the order for Helium this week to ensure timely delivery of the T-size cylinders.
Attached is the list of folks that I've received payment from, and the size and quantity of the order.
If you see any discrepancies, please let me know before Tuesday, June 19.
I'll try and have one or two spares on hand, but the handling of this quantity of cylinders is going to be a little difficult, due to DOT regulations we're restricted on carrying more than 1000 lbs. without a CDL.
I have three vehicles lined up to accomplish this task. Any more cylinders and we may be "log rolling" them half way across GI.

Looking forward to seeing many of you again and meeting all of the newcomers. I'll do my best to keep the website up to date with the latest details. Check back often.

73 de Roger KCØMWM

3312. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-17 22:39:51 UTC
From: PAUL VERHAGE
Topic: 3239 Message: 3312

I ue a dipole like I describe in my book. The elements are cut 9.5 inches long and the whole thing sticks about 8" from the airframe. With a 340 mW radio I get hundreds of miles of range.

Paul

>>> Brek Brixius <gofly2007@yahoo.com> 06/17/07 9:47 AM >>>
I am wondering if my antenna will work well enough. It's a 1/4 wave speaker wire dipole. The speaker wire is glued with hot glue into some pipe insulation to support the dipoles but yet remain flexible. I was actually planning to use two of these antenna. One for the cw beacon and one for the APRS. I have tested them in operation here on the ground and they work well. Will they work as well in the air?

I also have a roll up shirt pocket J-Pole but was not planning to fly it because I think the plastic would not stand the cold very well.

Brek - KC0YOE

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We roll our own using just 1/4 wave of 300-ohm twin lead plus
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most importantly, RG-142 B/U coax for low-temp flexibility and
mechanical robustness. The antenna is strapped loosely to the
payload line to keep it near vertical in flight.

The wire J-pole provides about 5 dBi gain, has a verically polarized
omni pattern (good for DFing), is lightweight and robust, and most
importantly, unlike a 1/4 raditor, it generates very little "counterpoise
current" which can play havoc with the sensitive bits inside your
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We use a 70cm Little Wheel for ATV, since we need all the gain we
can get. But it's heavy, and unless it's beefed up to tolerate a
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broken solder joints.

73 de Mike W5VSI, EOSS

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> Please pardon/ignore this question, if you find it too
> simple.

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> flights).
>
> However, the idea of a back-up system using APRS, that
> is also accessible via APRS-IS to our partner K-12
> schools has led us to enter the APRS domain using a
> Garmin 18 LVC and a Micro-Trak 300. As for the
> antenna, the web literature discusses Big Wheel,
> dipole, folded dipole, J-pole, ...
>
> Now, the simple question: Which type of antenna do
> you use/prefer for your balloon borne APRS?
>
> I'm interested in what has worked well (and hopefully
> survived) for you. Feel free to respond directly to
> me, if you prefer.
>
> Thanks,
> Howard
> BASE-DePauw
> hlbrooks@...
> www.depauw.edu/acad/physics/base
>
>
>
> ____
> Got a little couch potato?
> Check out fun summer activities for kids.
> http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz
>
>
>
> Yahoo! Groups Links
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
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3313. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-17 22:58:08 UTC
From: Harry M
Topic: 3239 Message: 3313

Roger,

I sent you a pic.

I forgot to mention that I cut the elements long then trim them for SWR after I have it mounted on the capsule. The reflective coating on the capsule affects the SWR. My radials end up being about 19 3/4" for 2m.

73 Harry

The ark was built by amateurs.
The Titanic was built by professionals.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

----- Original Message -----
From: Roger Hammond
To: GPSL list
Sent: Sunday, June 17, 2007 5:11 PM
Subject: [GPSL] GPSL Helium

I'm placing the order for Helium this week to ensure timely delivery of the T-size cylinders.
Attached is the list of folks that I've received payment from, and the size and quantity of the order.
If you see any discrepancies, please let me know before Tuesday, June 19. I'll try and have one or two spares on hand, but the handling of this quantity of cylinders is going to be a little difficult, due to DOT regulations we're restricted on carrying more than 1000 lbs. without a CDL. I have three vehicles lined up to accomplish this task. Any more cylinders and we may be "log rolling" them half way across GI.

Looking forward to seeing many of you again and meeting all of the newcomers. I'll do my best to keep the website up to date with the latest details. Check back often.

73 de Roger KCØMWM

3314. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-17 23:04:57 UTC
From: Harry M
Topic: 3239 Message: 3314

That's 19 3/4" for each element.

3315. RE: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 00:40:03 UTC
From: Roger Hammond
Topic: 3239 Message: 3315

Very nice....I may do something similar.
Thanks for the picture.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Sunday, June 17, 2007 6:05 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Antenna for APRS

That's 19 3/4" for each element.

3316. Re: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 00:40:05 UTC
From: Jeff Richardson
Topic: 3297 Message: 3316
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3317. GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 02:41:11 UTC
From: Harry M
Topic: 3317 Message: 3317

I may have missed any discussion on this so I apologize for asking again.

For those of us with APRS on 144.340, what will be the proper Digi-Path to use? I will be using a TinyTrak.

73 Harry

3318. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 02:37:52 UTC
From: Harry M
Topic: 3239 Message: 3318

It's not pretty, but it has worked well.

3319. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 02:47:04 UTC
From: Mark Conner
Topic: 3317 Message: 3319

I don't think any digipeaters are planned to be on 144.34, though some stations should perform I-gate services. So the path for balloon APRS beacons won't really matter - nobody is likely to digipeat you anyway.

I would leave the path off to shorten the packet a few bytes.

73 de Mark N9XTN

On 6/17/07, Harry M <hhm_74115@...> wrote:
>
>
> I may have missed any discussion on this so I apologize for asking again.
>
> For those of us with APRS on 144.340, what will be the proper Digi-Path to use? I will be using a TinyTrak.
>
> 73 Harry
>

3320. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 14:42:02 UTC
From: Harry M
Topic: 3317 Message: 3320

Thanks Mark!

I was more concerned with an IGate and I haven't heard if there will be a dedicated one for .340. I've been asked by several locals if we will show up on FindU. I'm getting my capsules ready now so I don't have to fool with them at the Hotel. I'll either leave the Path blank or use WIDE2-2.

73 Harry

3321. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 15:34:01 UTC
From: J B
Topic: 3317 Message: 3321

Harry:

My station here in GI will i-gate both .39 and.34, I
have a dual band setup for V/V,I worked well for our
launch this past saturday..
Jack WY0F
--- Harry M <hhm_74115@...> wrote:

>
> Thanks Mark!
>
> I was more concerned with an IGate and I haven't
> heard if there will be a dedicated one for .340.
> I've been asked by several locals if we will show up
> on FindU. I'm getting my capsules ready now so I
> don't have to fool with them at the Hotel. I'll
> either leave the Path blank or use WIDE2-2.
>
> 73 Harry
>

Sick sense of humor? Visit Yahoo! TV's
Comedy with an Edge to see what's on, when.
http://tv.yahoo.com/collections/222

3322. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 15:40:57 UTC
From: Harry M
Topic: 3317 Message: 3322

Ok Jack, thanks!
So a blank Path will work ok then?

73 Harry

3323. Log from EOSS Flt on Sat.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 16:13:41 UTC
From: Nick Hanks
Topic: 3323 Message: 3323

Looking through my log I found the following packets from outside Colorado.

08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*:=4117.34N/09619.91W-QTH WaterlooNE
EBBE attempt
08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*::AE0SS :test EBBE msg{2W}
08:58:05 KC0MWM-2>APU25N,TCPIP,KC0LNO*::AE0SS :****** Hello Colorado
********{65
09:02:19 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
09:04:32 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
09:10:22 AB0XK>APU25N,AE0SS-11*,CNNSP:=3854.11N/09851.70W-Hello from the
heartland!
09:13:17 AB0XK>APU25N,AE0SS-11*::K0ANI :Hi from the middle of Kansas!{94

The times are the receive time at the ground station. At 08:34 our balloon
was at about 53,000 feet and at 09:13 at about 86,000 ft.

Did you all see any of the packets Mike W5VSI and I sent from AE0SS?

73,

Nick
N0LP

3324. Re: [GPSL] Log from EOSS Flt on Sat.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 17:32:30 UTC
From: Ralph Wallio, W0RPK
Topic: 3323 Message: 3324

From packet header data it appears the two packets from N9XTN-8 and single packet from KC0MWM-2 were
routed to KC0LNO in Monument CO via TCPIP (the Internet), not via CNNSP>EOSS.

Four packets from AB0XK in Russell KS were digipeated by AE0SS-11. There is no evidence they were
digipeated by CNNSP or any other station.

If this is all the evidence we have it appears EBBE did not happen in either direction.

N9XTN-8 and W0RPK saw packets digipeated by CNNSP from each other (EBE).

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Nick Hanks" <ndhanks@...>
To: "GPSL Mail Group" <GPSL@yahoogroups.com>; <bob.roe@...>
Cc: "Manes, Mike" <manes@...>
Sent: Monday, June 18, 2007 11:13 AM
Subject: [GPSL] Log from EOSS Flt on Sat.

Looking through my log I found the following packets from outside Colorado.

08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*:=4117.34N/09619.91W-QTH WaterlooNE
EBBE attempt
08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*::AE0SS :test EBBE msg{2W}
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********{65
09:02:19 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
09:04:32 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
09:10:22 AB0XK>APU25N,AE0SS-11*,CNNSP:=3854.11N/09851.70W-Hello from the
heartland!
09:13:17 AB0XK>APU25N,AE0SS-11*::K0ANI :Hi from the middle of Kansas!{94

The times are the receive time at the ground station. At 08:34 our balloon
was at about 53,000 feet and at 09:13 at about 86,000 ft.

Did you all see any of the packets Mike W5VSI and I sent from AE0SS?

73,

Nick
N0LP

3325. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 21:45:37 UTC
From: Mike Manes
Topic: 3239 Message: 3325

Hi Brek,

I assume you mean a 1/2 wave dipole (2x 1/4 wave radiators in opposite directions).

Yes, it will work as well in flight as on the deck. However:

1) it does put the max radiated H field right near your payload electronics. If your payload xmissions aren't distorted or reading wrong analog values, then this may not be a issue.

2) I also assume it's a vertical dipole to permit accurate DFing. In that case, then the upper section my get bent or broken off during a parachute drag.

Been both places, got both T-shirts. This is why we do homebrew J-poles.

73 de Mike W5VSI

Brek Brixius wrote:
> I am wondering if my antenna will work well enough. It's a 1/4 wave
> speaker wire dipole. The speaker wire is glued with hot glue into some
> pipe insulation to support the dipoles but yet remain flexible. I was
> actually planning to use two of these antenna. One for the cw beacon
> and one for the APRS. I have tested them in operation here on the
> ground and they work well. Will they work as well in the air?
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> because I think the plastic would not stand the cold very well.
>
> Brek - KC0YOE
>
>
>
>
> */Mike Manes <manes@...>/* wrote:
>
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>
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> EOSS well on multiple beacons running just 0.35 W xmit power.
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> We roll our own using just 1/4 wave of 300-ohm twin lead plus
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> most importantly, RG-142 B/U coax for low-temp flexibility and
> mechanical robustness. The antenna is strapped loosely to the
> payload line to keep it near vertical in flight.

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> The wire J-pole provides about 5 dBi gain, has a verically polarized
> omni pattern (good for DFing), is lightweight and robust, and most
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> current" which can play havoc with the sensitive bits inside your
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> can get. But it's heavy, and unless it's beefed up to tolerate a
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> broken solder joints.
>
> 73 de Mike W5VSI, EOSS
>
> BASE wrote:
> > Dear friends,
> >
> > Please pardon/ignore this question, if you find it too
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> > First some brief background. We have been flying the
> > system from StratoStar and have never flown APRS (five
> > flights).
> >
> > However, the idea of a back-up system using APRS, that
> > is also accessible via APRS-IS to our partner K-12
> > schools has led us to enter the APRS domain using a
> > Garmin 18 LVC and a Micro-Trak 300. As for the
> > antenna, the web literature discusses Big Wheel,
> > dipole, folded dipole, J-pole, ...
> >
> > Now, the simple question: Which type of antenna do
> > you use/prefer for your balloon borne APRS?
> >
> > I'm interested in what has worked well (and hopefully
> > survived) for you. Feel free to respond directly to
> > me, if you prefer.
> >
> > Thanks,
> > Howard
> > BASE-DePauw
> > hlbrooks@... <mailto:hlbrooks%40depauw.edu>
> > www.depauw.edu/acad/physics/base
> >
> >
> >
> >
> > _____
> > Got a little couch potato?
> > Check out fun summer activities for kids.

> >
> http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz
> <http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz>
>
> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> ---
> Be a better Heartthrob. Get better relationship answers
> <http://us.rd.yahoo.com/evt=48255/*http://answers.yahoo.com/dir/_ylc=X3oDMTI5MGx2aThyBF9
TAzIxMTU1MDAzNTIEX3MDMzk2NTQ1MTAzBHNlYwNCQUJwaWxsYXJfTklfMzYwBHNsawNQcm9kdWN0X3F1ZXN0aW9uX
3BhZ2U-?link=list&sid=396545433>from
> someone who knows.
> Yahoo! Answers - Check it out.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3326. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 22:45:08 UTC
From: Mike Manes
Topic: 3317 Message: 3326

Better to make your path just APRS. AE0SS-11 is configured as as WIDE,
and I dare not mess with something that took so many hours to get right!
73 de Mike W5VSI

Harry M wrote:
>
> Thanks Mark!
>
> I was more concerned with an IGate and I haven't heard if there will be
> a dedicated one for .340. I've been asked by several locals if we will
> show up on FindU. I'm getting my capsules ready now so I don't have to
> fool with them at the Hotel. I'll either leave the Path blank or use
> WIDE2-2.
>
> 73 Harry
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3327. Re: Log from EOSS Flt on Sat.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 22:59:05 UTC
From: Mike Manes
Topic: 3323 Message: 3327

Hi Nick,

It looks like Mark's and Rog's beacons that had TCPIP in the path got
to our I-gate, KC0LNO, by means other than Pure-D raddio :={.

AB0XK hit AE0SS-11 direct from KS w/o EBBE thru CNNSP. Woulda been
nice to have made an ARQ thru BALNOD, though.

So, once again, ad hoc EBBE QSOs remain elusive (for MOST of us, Harry!).

73 de Mike W5VSI

Nick Hanks wrote:
> Looking through my log I found the following packets from outside Colorado.
>
> 08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*:=4117.34N/09619.91W-QTH WaterlooNE
> EBBE attempt
> 08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*::AE0SS :test EBBE msg{2W}
> 08:58:05 KC0MWM-2>APU25N,TCPIP,KC0LNO*::AE0SS :****** Hello Colorado
> ********{65
> 09:02:19 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
> 09:04:32 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
> 09:10:22 AB0XK>APU25N,AE0SS-11*,CNNSP:=3854.11N/09851.70W-Hello from the
> heartland!
> 09:13:17 AB0XK>APU25N,AE0SS-11*::K0ANI :Hi from the middle of Kansas!{94
>
> The times are the receive time at the ground station. At 08:34 our balloon
> was at about 53,000 feet and at 09:13 at about 86,000 ft.
>
> Did you all see any of the packets Mike W5VSI and I sent from AE0SS?
>
>
> 73,
>
> Nick
> N0LP
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3328. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 22:39:36 UTC
From: Stephanie Steele
Topic: 3317 Message: 3328
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3329. Re: [GPSL] Log from EOSS Flt on Sat.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 23:07:26 UTC
From: Mike Manes
Topic: 3323 Message: 3329

Sadly, I agree :={
73 de Mike W5VSI

Ralph Wallio, W0RPK wrote:
>>From packet header data it appears the two packets from N9XTN-8 and single packet from KC0MWM-2 were
> routed to KC0LNO in Monument CO via TCPIP (the Internet), not via CNNSP>EOSS.
>
> Four packets from AB0XK in Russell KS were digipeated by AE0SS-11. There is no evidence they were
> digipeated by CNNSP or any other station.
>
> If this is all the evidence we have it appears EBBE did not happen in either direction.
>
> N9XTN-8 and W0RPK saw packets digipeated by CNNSP from each other (EBE).
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
> ----- Original Message -----
> From: "Nick Hanks" <ndhanks@...>
> To: "GPSL Mail Group" <GPSL@yahoogroups.com>; <bob.roe@...>
> Cc: "Manes, Mike" <manes@attglobal.net>
> Sent: Monday, June 18, 2007 11:13 AM
> Subject: [GPSL] Log from EOSS Flt on Sat.
>
>
> Looking through my log I found the following packets from outside Colorado.
>
> 08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*:=4117.34N/09619.91W-QTH WaterlooNE
> EBBE attempt
> 08:34:46 N9XTN-8>APS224,TCPIP,KC0LNO*::AE0SS :test EBBE msg{2W}
> 08:58:05 KC0MWM-2>APU25N,TCPIP,KC0LNO*::AE0SS :****** Hello Colorado
> ********{65
> 09:02:19 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
> 09:04:32 AB0XK>APU25N,AE0SS-11*:=3854.11N/09851.70W-EM08NV
> 09:10:22 AB0XK>APU25N,AE0SS-11*,CNNSP:=3854.11N/09851.70W-Hello from the
> heartland!
> 09:13:17 AB0XK>APU25N,AE0SS-11*::K0ANI :Hi from the middle of Kansas!{94
>

> The times are the receive time at the ground station. At 08:34 our balloon
> was at about 53,000 feet and at 09:13 at about 86,000 ft.
>
> Did you all see any of the packets Mike W5VSI and I sent from AE0SS?
>
>
> 73,
>
> Nick
> N0LP
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3330. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 22:35:54 UTC
From: Mike Manes
Topic: 3317 Message: 3330

Considering how packed 144.34 is with slotted beacons, I'd recommend
avoiding use of digipeaters, whose frames are not slotted. However,
it would be nice to have some I-gates set up in advance so that absentee
members of the groups flying at GPSL can enjoy the trip vicariously.

73 de Mike W5VSI

Mark Conner wrote:
> I don't think any digipeaters are planned to be on 144.34, though some
> stations should perform I-gate services. So the path for balloon APRS
> beacons won't really matter - nobody is likely to digipeat you anyway.
>
> I would leave the path off to shorten the packet a few bytes.
>
> 73 de Mark N9XTN
>
> On 6/17/07, Harry M <hhm_74115@...> wrote:
>>
>> I may have missed any discussion on this so I apologize for asking again.
>>
>> For those of us with APRS on 144.340, what will be the proper Digi-Path to use? I will
be using a TinyTrak.
>>
>> 73 Harry
>>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3331. Re: [GPSL] Re: Log from EOSS Flt on Sat.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 23:05:24 UTC
From: Harry M
Topic: 3323 Message: 3331

Mike, I tried to get to EOSS via CNNSP, but by the time I started hearing parts of a CNNSP packet EOSS was on the way down. I threw out a couple packets just before CNNSP burst, just for luck. No Joy! :(

Hi Stephanie! There won't be any Digi's on 144.340 at GPSL, but with EOSS configured as a WIDE, any WIDE Path would go through them so I will make ORB's path APRS. I might suggest also that any mobiles that will be on .340 take WIDE out of their paths. I shut my beacon off in the mobile, but to be safe I will remove it's path.

73 Harry

3332. RE: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-18 23:57:21 UTC
From: Roger Hammond
Topic: 3317 Message: 3332

We should have plenty of Igates on .34 and .36, so that everyone can play
along at home.

73,

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike
Manes
Sent: Monday, June 18, 2007 5:36 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL DIGI Path

Considering how packed 144.34 is with slotted beacons, I'd recommend
avoiding use of digipeaters, whose frames are not slotted. However,
it would be nice to have some I-gates set up in advance so that absentee
members of the groups flying at GPSL can enjoy the trip vicariously.

73 de Mike W5VSI

Mark Conner wrote:
> I don't think any digipeaters are planned to be on 144.34, though some
> stations should perform I-gate services. So the path for balloon APRS
> beacons won't really matter - nobody is likely to digipeat you anyway.
>
> I would leave the path off to shorten the packet a few bytes.
>
> 73 de Mark N9XTN
>
> On 6/17/07, Harry M <hhm_74115@cox. <mailto:hhm_74115%40cox.net> net>
wrote:
>>
>> I may have missed any discussion on this so I apologize for asking again.
>>
>> For those of us with APRS on 144.340, what will be the proper Digi-Path
to use? I will be using a TinyTrak.
>>
>> 73 Harry
>>
>
>
>
> Yahoo! Groups Links
>
>

>
>

--
Mike Manes manes@attglobal. <mailto:manes%40attglobal.net> net Tel:
303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3333. Re: [GPSL] GPSL DIGI Path

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-19 00:12:12 UTC
From: Harry M
Topic: 3317 Message: 3333

Roger Doger Rog!

Thanks!

>We should have plenty of Igates on .34 and .36, so that everyone can play
>along at home.

3334. Re: [GPSL] Antenna for APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-19 01:51:34 UTC
From: Brek Brixius
Topic: 3239 Message: 3334

You are correct as usual Mike. :) 1/2 wave. They are flexible.

Brek - KC0YOE

Mike Manes <manes@...> wrote:
Hi Brek,

I assume you mean a 1/2 wave dipole (2x 1/4 wave radiators in opposite directions).

Yes, it will work as well in flight as on the deck. However:

1) it does put the max radiated H field right near your payload electronics. If your payload xmissions aren't distorted or reading wrong analog values, then this may not be a issue.

2) I also assume it's a vertical dipole to permit accurate DFing. In that case, then the upper section my get bent or broken off during a parachute drag.

Been both places, got both T-shirts. This is why we do homebrew J-poles.

73 de Mike W5VSI

Brek Brixius wrote:
> I am wondering if my antenna will work well enough. It's a 1/4 wave
> speaker wire dipole. The speaker wire is glued with hot glue into some
> pipe insulation to support the dipoles but yet remain flexible. I was
> actually planning to use two of these antenna. One for the cw beacon
> and one for the APRS. I have tested them in operation here on the
> ground and they work well. Will they work as well in the air?
>
> I also have a roll up shirt pocket J-Pole but was not planning to fly it
> because I think the plastic would not stand the cold very well.
>
> Brek - KC0YOE
>
>
>
>
> */Mike Manes <manes@...>/* wrote:
>
> Hi Howard,
>
> The "roll-up" 2m J-pole, similar to the MJF product, has served
> EOSS well on multiple beacons running just 0.35 W xmit power.
>

> We roll our own using just 1/4 wave of 300-ohm twin lead plus
> 1/2 wave of teflon hookup wire for the radiating element. And,
> most importantly, RG-142 B/U coax for low-temp flexibility and
> mechanical robustness. The antenna is strapped loosely to the
> payload line to keep it near vertical in flight.
>
> The wire J-pole provides about 5 dBi gain, has a verically polarized
> omni pattern (good for DFing), is lightweight and robust, and most
> importantly, unlike a 1/4 raditor, it generates very little
> "counterpoise
> current" which can play havoc with the sensitive bits inside your
> beacon package.
>
> We use a 70cm Little Wheel for ATV, since we need all the gain we
> can get. But it's heavy, and unless it's beefed up to tolerate a
> parachute drag, it can demand a lot of preflight service to repair
> broken solder joints.
>
> 73 de Mike W5VSI, EOSS
>
> BASE wrote:
> > Dear friends,
> >
> > Please pardon/ignore this question, if you find it too
> > simple.
> >
> > First some brief background. We have been flying the
> > system from StratoStar and have never flown APRS (five
> > flights).
> >
> > However, the idea of a back-up system using APRS, that
> > is also accessible via APRS-IS to our partner K-12
> > schools has led us to enter the APRS domain using a
> > Garmin 18 LVC and a Micro-Trak 300. As for the
> > antenna, the web literature discusses Big Wheel,
> > dipole, folded dipole, J-pole, ...
> >
> > Now, the simple question: Which type of antenna do
> > you use/prefer for your balloon borne APRS?
> >
> > I'm interested in what has worked well (and hopefully
> > survived) for you. Feel free to respond directly to
> > me, if you prefer.
> >
> > Thanks,
> > Howard
> > BASE-DePauw
> > hlbrooks@... <mailto:hlbrooks%40depauw.edu>
> > www.depauw.edu/acad/physics/base
> >

> >
> >
> > _____
> > Got a little couch potato?
> > Check out fun summer activities for kids.
> >
> http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz
> <http://search.yahoo.com/search?fr=oni_on_mail&p=summer+activities+for+kids&cs=bz>
>
> >
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> > Yahoo! Groups Links
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> >
> >
> >
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
> ---
> Be a better Heartthrob. Get better relationship answers
> <http://us.rd.yahoo.com/evt=48255/*http://answers.yahoo.com/dir/_ylc=X3oDMTI5MGx2aThyBF9
TAzIxMTU1MDAzNTIEX3MDMzk2NTQ1MTAzBHNlYwNCQUJwaWxsYXJfTklfMzYwBHNsawNQcm9kdWN0X3F1ZXN0aW9uX
3BhZ2U-?link=list&sid=396545433>from
> someone who knows.
> Yahoo! Answers - Check it out.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
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3335. RE: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-19 02:39:45 UTC
From: PAUL VERHAGE
Topic: 3297 Message: 3335

Roger, I'll be in town on the morning of the 5th. Are you taking the day off?

Paul

>>> "Roger Hammond" <rahammond@...> 06/14/07 8:26 PM >>>
You're welcome. Thanks for getting those together. I've got three OT1+ kits
on the way, donated by Scott Miller, N1VG

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL
VERHAGE
Sent: Thursday, June 14, 2007 8:25 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Conference Lunch

There will be two of us.

By the way, I have most of the welcome packets put together (I'm waiting for Nuts and Volts next week). Ralph's plaque will be done in about a week.

Thanks for hosting this year.

Paul

>>> "Roger Hammond" <rahammond@charter. <mailto:rahammond%40charter.net> net> 06/14/07 4:21 PM >>>
Now that we're only a few weeks away from GPSL 2007, I need a final head count for lunch on Friday. The hotel doesn't t need to know until a few days
before hand, but I'd like to confirm as many as possible by the end of this
weekend. It will be a buffet-style catered by the hotel and the cost is just
under $12. Please respond even if you've already given me a count, that way
I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

3336. More Newbie Questions

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-19 22:58:18 UTC
From: Brek Brixius
Topic: 3336 Message: 3336

How do you calculate the descent rate? and How do you know which package will fall faster without drop testing? I will have two modules on the BUNS balloon. One is cameras and the other is APRS / Beacon. The cameras are slightly heavier and have a slightly smaller earthward footprint. I'm thinking the cameras should on the bottom then.
Is that right?

Brek - KC0YOE

Be a better Heartthrob. Get better relationship answers from someone who knows.
Yahoo! Answers - Check it out.

3337. RE: [GPSL] Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-19 23:37:14 UTC
From: Roger Hammond
Topic: 3297 Message: 3337

Paul,

Yes, I'm off on the 5th.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL
VERHAGE
Sent: Monday, June 18, 2007 9:40 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Conference Lunch

Roger, I'll be in town on the morning of the 5th. Are you taking the
day off?

Paul

>>> "Roger Hammond" <rahammond@charter. <mailto:rahammond%40charter.net>
net> 06/14/07 8:26 PM >>>
You're welcome. Thanks for getting those together. I've got three OT1+
kits
on the way, donated by Scott Miller, N1VG

Rog

-----Original Message-----
From: GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com
[mailto:GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com] On Behalf Of
PAUL
VERHAGE
Sent: Thursday, June 14, 2007 8:25 PM
To: GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com
Subject: Re: [GPSL] Conference Lunch

There will be two of us.

By the way, I have most of the welcome packets put together (I'm waiting
for Nuts and Volts next week). Ralph's plaque will be done in about a
week.

Thanks for hosting this year.

Paul

>>> "Roger Hammond" <rahammond@charter. <mailto:rahammond%40charter.net>
net> 06/14/07 4:21 PM >>>
Now that we're only a few weeks away from GPSL 2007, I need a final head

count for lunch on Friday. The hotel doesn't t need to know until a few days
before hand, but I'd like to confirm as many as possible by the end of this
weekend. It will be a buffet-style catered by the hotel and the cost is just
under $12. Please respond even if you've already given me a count, that way
I can confirm what I have and no one gets left out.

73 de Roger KCØMWM

3338. Re: [GPSL] More Newbie Questions

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-20 05:48:32 UTC
From: Mike Manes
Topic: 3336 Message: 3338

That's good thinking. The more it looks like a low-drag bomb, the
faster it'll fall (generally speaking, assuming similar density, etc, etc).
The payload that's more like an empty shoebox oughta go close to the 'chute.

73 de Mike W5VSI

Brek Brixius wrote:
> How do you calculate the descent rate? and How do you know which
> package will fall faster without drop testing? I will have two modules
> on the BUNS balloon. One is cameras and the other is APRS / Beacon.
> The cameras are slightly heavier and have a slightly smaller earthward
> footprint. I'm thinking the cameras should on the bottom then.
> Is that right?
>
> Brek - KC0YOE
>
> ---
> Be a better Heartthrob. Get better relationship answers
> <http://us.rd.yahoo.com/evt=48255/*http://answers.yahoo.com/dir/_ylc=X3oDMTI5MGx2aThyBF9
TAzIxMTU1MDAzNTIEX3MDMzk2NTQ1MTAzBHNlYwNCQUJwaWxsYXJfTklfMzYwBHNsawNQcm9kdWN0X3F1ZXN0aW9uX
3BhZ2U-?link=list&sid=396545433>from
> someone who knows.
> Yahoo! Answers - Check it out.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3339. Re: [GPSL] More Newbie Questions

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-20 22:48:20 UTC
From: Brek Brixius
Topic: 3336 Message: 3339

Got it. Boots on the bottom, box on the top. :) Thanks Mike.

Brek - KC0YOE

Mike Manes <manes@...> wrote:
That's good thinking. The more it looks like a low-drag bomb, the
faster it'll fall (generally speaking, assuming similar density, etc, etc).
The payload that's more like an empty shoebox oughta go close to the 'chute.

73 de Mike W5VSI

Brek Brixius wrote:
> How do you calculate the descent rate? and How do you know which
> package will fall faster without drop testing? I will have two modules
> on the BUNS balloon. One is cameras and the other is APRS / Beacon.
> The cameras are slightly heavier and have a slightly smaller earthward
> footprint. I'm thinking the cameras should on the bottom then.
> Is that right?
>
> Brek - KC0YOE
>
> ---
> Be a better Heartthrob. Get better relationship answers
> <http://us.rd.yahoo.com/evt=48255/*http://answers.yahoo.com/dir/_ylc=X3oDMTI5MGx2aThyBF9
TAzIxMTU1MDAzNTIEX3MDMzk2NTQ1MTAzBHNlYwNCQUJwaWxsYXJfTklfMzYwBHNsawNQcm9kdWN0X3F1ZXN0aW9uX
3BhZ2U-?link=list&sid=396545433>from
> someone who knows.
> Yahoo! Answers - Check it out.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

---
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3340. GPSL shirt orders

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-22 17:03:34 UTC
From: Mark Conner
Topic: 3340 Message: 3340

Just a reminder - if you plan to order a 2007 GPSL shirt, you should place your order in the next few days to ensure delivery before you depart for Grand Island. Designs for the previous years are also available if you would like them.

2007 shirt:
http://www.zazzle.com/mconner1/product/235793445906342262

Other shirts:
http://www.zazzle.com/mconner1

I will be submitting an order for NSTAR members plus a couple of others who have requested them. If you don't want to deal with the ordering, send me an e-mail with size and callsign/name information and I'll order the shirts and bring them to GPSL Friday morning. Cost is around $20 for sizes up to XL, about $4 more for 2XL+.

73 de Mark N9XTN

3341. Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-22 18:34:41 UTC
From: Hank
Topic: 3341 Message: 3341

I think this will be worth watching.

The human interest story that is on every Friday as the last piece this week will be about a guy that flies by means of a harness suspended beneath a large cluster of fairly small helium balloons. This is untethered balloon flight!

Broadcast time varies by individual station and time zone, but typically in the east it begins at 6:30 PM. The balloon story, being last, will be on somewhere around 6:52 PM.

Hank

3342. Re: Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-22 19:05:14 UTC
From: Hank
Topic: 3341 Message: 3342

This is the guy:

http://www.clusterballoon.org/

3343. Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-22 23:55:10 UTC
From: Mike Manes
Topic: 3341 Message: 3343

Didn't Bill Brown show a video of this dood at GPSL last year?
73 de Mike W5VSI

Hank wrote:
> I think this will be worth watching.
>
> The human interest story that is on every Friday as the
> last piece this week will be about a guy that flies by means
> of a harness suspended beneath a large cluster of fairly small
> helium balloons. This is untethered balloon flight!
>
> Broadcast time varies by individual station and time zone,
> but typically in the east it begins at 6:30 PM. The balloon
> story, being last, will be on somewhere around 6:52 PM.
>
> Hank
>
>
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>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3344. Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-23 00:47:04 UTC
From: Art
Topic: 3341 Message: 3344

My daughter watched the video and she wants to try it!

She's only 10!

Look out world!

Art

At 07:55 PM 6/22/2007, you wrote:
>Didn't Bill Brown show a video of this dood at GPSL last year?
>73 de Mike W5VSI

3345. Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-23 01:27:27 UTC
From: Art
Topic: 3341 Message: 3345

Regarding the video though......why in the heck would they pop all
those balloons after he landed after just a single flight???

I'd blow up a few more, tie them in and take another spin
around...and so on and so on.

If the helium is so expensive, he could also hitch someone else on
and send them off....and not waste the helium for just one ride.

Or, recover the helium by pumping it back into the tanks for the balloons.

Enjoy.

Art

>Didn't Bill Brown show a video of this dood at GPSL last year?
>73 de Mike W5VSI
>
>Hank wrote:
> > I think this will be worth watching.
> >
> > The human interest story that is on every Friday as the
> > last piece this week will be about a guy that flies by means
> > of a harness suspended beneath a large cluster of fairly small
> > helium balloons. This is untethered balloon flight!
> >
> > Broadcast time varies by individual station and time zone,
> > but typically in the east it begins at 6:30 PM. The balloon
> > story, being last, will be on somewhere around 6:52 PM.
> >
> > Hank
> >
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> > Yahoo! Groups Links
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>--
>Mike Manes manes@... Tel: 303-979-4899
>"Things should be made as simple as possible, but not more so." A. Einstein
>
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>Yahoo! Groups Links
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>--
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.5.472 / Virus Database: 269.9.4/860 - Release Date:
>6/21/2007 5:53 PM

3346. Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-23 03:55:18 UTC
From: wb8elk@aol.com
Topic: 3341 Message: 3346

Hi Mike,

  Yes indeed I showed the photos of this at GPSL last year.....I got to ride on this contraption.....pretty amazing what 72 party balloons can do. I put APRS on the flight he did from here near Decatur, AL

- Bill WB8ELK

-----Original Message-----
From: Mike Manes <manes@attglobal.net>
To: GPSL@yahoogroups.com
Sent: Fri, 22 Jun 2007 6:55 pm
Subject: Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22

Didn't Bill Brown show a video of this dood at GPSL last year?
73 de Mike W5VSI

Hank wrote:
> I think this will be worth watching.
>
> The human interest story that is on every Friday as the
> last piece this week will be about a guy that flies by means
> of a harness suspended beneath a large cluster of fairly small
> helium balloons. This is untethered balloon flight!
>
> Broadcast time varies by individual station and time zone,
> but typically in the east it begins at 6:30 PM. The balloon
> story, being last, will be on somewhere around 6:52 PM.
>
> Hank
>
>
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>
> Yahoo! Groups Links
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>
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>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

_____
AOL now offers free email to everyone. Find out more about what's free from AOL at AOL.com.

3347. Balloon Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-23 14:01:49 UTC
From: PAUL VERHAGE
Topic: 3347 Message: 3347

Ralph, the ACE Academy in Boise is planning a launch on Wednesday morning, the 27th.

Launch time around 7:00 AM
Callsign KD4STH-11
Balloon 1200 grams
Ascent and Descent at 1200 fpm
Location TBD
APRS at 144.390

Thanks,
Paul

3348. Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-23 20:40:09 UTC
From: Mike Manes
Topic: 3341 Message: 3348

Hi Bill,

Yeah ... I'd forgotten that you'd taken a hop in that rig. Wotta kick!
"Lawnchair Larry" redux.

Seem to recall that altitude is controlled by either ballast dump or
cutting lift lines. Sure beats the BB gun that Larry forgot to tether.

And it must take a truckload of He get that much lift ... goes beyond
my pocket change :={.

73 de Mike W5VSI

wb8elk@... wrote:
> Hi Mike,
>
> Yes indeed I showed the photos of this at GPSL last year.....I got to
> ride on this contraption.....pretty amazing what 72 party balloons can
> do. I put APRS on the flight he did from here near Decatur, AL
>
> - Bill WB8ELK
>
>
> -----Original Message-----
> From: Mike Manes
> To: GPSL@yahoogroups.com
> Sent: Fri, 22 Jun 2007 6:55 pm
> Subject: Re: [GPSL] Flying cluster-balloon man on CBS Evening News June 22
>
> Didn't Bill Brown show a video of this dood at GPSL last year?
> 73 de Mike W5VSI
>
> Hank wrote:
> > I think this will be worth watching.
> >
> > The human interest story that is on every Friday as the
> > last piece this week will be about a guy that flies by means
> > of a harness suspended beneath a large cluster of fairly small
> > helium balloons. This is untethered balloon flight!
> >
> > Broadcast time varies by individual station and time zone,
> > but typically in the east it begins at 6:30 PM. The balloon
> > story, being last, will be on somewhere around 6:52 PM.
> >
> > Hank
> >

> >
> >
> >
> > Yahoo! Groups Links
> >
> >
> >
> >
>
> --
> Mike Manes manes@... <mailto:manes%40attglobal.net> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so." A. Einstein
>
> ---
> AOL now offers free email to everyone. Find out more about what's free
> from AOL at *AOL.com* <http://www.aol.com?ncid=AOLAOF00020000000437>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3349. GPSL Press Release response

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 01:24:12 UTC
From: Roger Hammond
Topic: 3349 Message: 3349

I've had one response from the press release I sent out, so far. Our local NBC affiliate News Center 5 asked me if I'd be interested in conducting a live interview on their noon news show. It looks like I'll have a chance to make a fool of myself on Thursday, July 5th with anchor Stacia Harris.

73 de Roger KCØMWM

3350. Re: [GPSL] GPSL Press Release response

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 01:36:54 UTC
From: Joe
Topic: 3349 Message: 3350

whats the call of the station?

maybe they have a web feed?

Joe & NSS

Roger Hammond wrote:

> I've had one response from the press release I sent out, so far. Our
> local NBC affiliate News Center 5 asked me if I'd be interested in
> conducting a live interview on their noon news show. It looks like
> I'll have a chance to make a fool of myself on Thursday, July 5th with
> anchor Stacia Harris.
>
> 73 de Roger KC?MWM
>
>
>

3351. RE: [GPSL] GPSL Press Release response

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 01:38:29 UTC
From: Roger Hammond
Topic: 3349 Message: 3351

Joe,

It's KHAS TV out of Hastings, NE

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Sunday, June 24, 2007 8:37 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Press Release response

whats the call of the station?

maybe they have a web feed?

Joe & NSS

Roger Hammond wrote:

I've had one response from the press release I sent out, so far. Our local
NBC affiliate News Center 5 asked me if I'd be interested in conducting a
live interview on their noon news show. It looks like I'll have a chance to
make a fool of myself on Thursday, July 5th with anchor Stacia Harris.

73 de Roger KCØMWM

3352. Re: [GPSL] GPSL Press Release response

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 01:50:46 UTC
From: Joe
Topic: 3349 Message: 3352

Looks like nothing Live,, but maybe they will record a story like they
did for field day

Joe

Roger Hammond wrote:

> Joe,
>
> It's KHAS TV out of Hastings, NE
>
> Rog
>
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> Of Joe
> Sent: Sunday, June 24, 2007 8:37 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] GPSL Press Release response
>
> whats the call of the station?
>
> maybe they have a web feed?
>
> Joe & NSS
>
> Roger Hammond wrote:
>
>> I've had one response from the press release I sent out, so far.
>> Our local NBC affiliate News Center 5 asked me if I'd be
>> interested in conducting a live interview on their noon news
>> show. It looks like I'll have a chance to make a fool of myself
>> on Thursday, July 5th with anchor Stacia Harris.
>>
>> 73 de Roger KC?MWM
>>
>>
>
>

3353. RE: [GPSL] GPSL Press Release response

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 02:19:49 UTC
From: Roger Hammond
Topic: 3349 Message: 3353

If I can snag a copy, I'll see about putting it on You Tube, with their permission.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Sunday, June 24, 2007 8:51 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Press Release response

Looks like nothing Live,, but maybe they will record a story like they did for field day

Joe

Roger Hammond wrote:

Joe,

It's KHAS TV out of Hastings, NE

Rog

-----Original Message-----
From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@ <mailto:GPSL@yahoogroups.com> yahoogroups.com] On Behalf Of Joe
Sent: Sunday, June 24, 2007 8:37 PM
To: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
Subject: Re: [GPSL] GPSL Press Release response

whats the call of the station?

maybe they have a web feed?

Joe & NSS

Roger Hammond wrote:

I've had one response from the press release I sent out, so far. Our local NBC affiliate News Center 5 asked me if I'd be interested in conducting a live interview on their noon news show. It looks like I'll have a chance to make a fool of myself on Thursday, July 5th with anchor Stacia Harris.

73 de Roger KCØMWM

3354. Long-range look for GPSL weather

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 15:33:30 UTC
From: mconner1@gmail.com
Topic: 3354 Message: 3354

It appears things are stabilizing into the usual early July pattern, with a strong ridge over the western US and a trough in eastern Canada. Most of the forecasts indicate the ridge will be strong enough to put us in dry, weak northwesterly flow aloft. The main thing is that there are no instances of strong surface winds noted for the few days before or after July 7. In late May and early June we had a large number of days with strong southerly winds that would have made it impossible to launch outdoors. Our main worry will be thunderstorms but from the overall pattern it appears we will have a less-than-average chance of them late next week.

The upshot is that we should have good conditions for flying at GPSL on our scheduled day, as we have for all of our previous six Super Launches. Temps should be close to normal with morning lows around 70 and highs in the low 90s.

73 de Mark N9XTN

3355. Re: [GPSL] Long-range look for GPSL weather

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 17:10:11 UTC
From: Harry M
Topic: 3354 Message: 3355

Thanks Mark, lets keep our rabbit's foot handy!

:)

73 Harry KC5TRB

3356. GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-25 23:16:45 UTC
From: Harry M
Topic: 3356 Message: 3356

I would like to solicit help at GPSL for the launch and recovery of the ORB flight. My son has informed me that he will be unable to attend. If you know of anyone that plans to attend that is not committed to a flight and would like to help, please let them know. I will welcome them with open arms! Experience is optional. Have them contact me here on the Group or Thursday or Friday at GPSL.

Thanks & 73
Harry KC5TRB

3357. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-26 02:06:00 UTC
From: J B
Topic: 3356 Message: 3357

Hi Harry:
Jack, WY0F. I am part of CNNSP and we will not be
flying at GPSL, I would be happy to help in what ever
way I can...
Jack
--- Harry M <hhm_74115@...> wrote:

>
>
> I would like to solicit help at GPSL for the launch
> and recovery of the ORB flight. My son has informed
> me that he will be unable to attend. If you know of
> anyone that plans to attend that is not committed to
> a flight and would like to help, please let them
> know. I will welcome them with open arms! Experience
> is optional. Have them contact me here on the Group
> or Thursday or Friday at GPSL.
>
> Thanks & 73
> Harry KC5TRB
>
>

_____
Choose the right car based on your needs. Check out Yahoo! Autos new Car Finder tool.
http://autos.yahoo.com/carfinder/

3358. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-26 02:11:12 UTC
From: Harry M
Topic: 3356 Message: 3358

Thanks Jack, I appreciate it!

73 Harry

3359. GPSL 2007 meals...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-26 22:29:52 UTC
From: Roger Hammond
Topic: 3359 Message: 3359

The Thursday evening meal at El Tapatio's should be good to go. I'm estimating 25-30 people for that meal. I was following up with Valentino's, the restaurant for Friday evening's meal, and apparently the party room is unavailable. They said they would do their best to accommodate a group of ~50 that evening in the main dining room and attempt to seat us together.

I'd like to know what people think about lunch on Saturday. With our get-together session at the HoJo after recovery, I was considering just letting the groups find some lunch on their own, attend the afternoon session, and then everyone getting together on Saturday evening...I'm considering The Wonderful Garden Chinese restaurant. They do a buffet, or you can order off the menu, it's close to the HoJo and can accommodate a fairly large group.

Let me know if anyone is opposed to the idea of finding lunch on their own on Saturday. I'd be happy to make suggestions and give directions.

Rog KCØMWM

3360. Re: [GPSL] GPSL 2007 meals...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-26 22:39:14 UTC
From: Harry M
Topic: 3359 Message: 3360

Sounds like a winner to me Rog. Who knows we might get invited to a local town gathering like last year. If not, I'm sure we'll find somewhere to gather for lunch, close to the recovery area.

73 Harry KC5TRB

3361. RE: [GPSL] GPSL 2007 meals...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-26 23:15:29 UTC
From: Patterson, David
Topic: 3359 Message: 3361

TU has added another to our party, bringing our total to 5.

Given how things went last year, I'd venture that an ad hoc coordination for lunch on Sat is a great idea (and more fun, anyway)!

Thanks!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Roger Hammond
Sent: Tue 6/26/2007 6:29 PM
To: GPSL list
Subject: [GPSL] GPSL 2007 meals...

The Thursday evening meal at El Tapatio's should be good to go. I'm estimating 25-30 people for that meal. I was following up with Valentino's, the restaurant for Friday evening's meal, and apparently the party room is unavailable. They said they would do their best to accommodate a group of ~50 that evening in the main dining room and attempt to seat us together.

I'd like to know what people think about lunch on Saturday. With our get-together session at the HoJo after recovery, I was considering just letting the groups find some lunch on their own, attend the afternoon session, and then everyone getting together on Saturday evening...I'm considering The Wonderful Garden Chinese restaurant. They do a buffet, or you can order off the menu, it's close to the HoJo and can accommodate a fairly large group.

Let me know if anyone is opposed to the idea of finding lunch on their own on Saturday. I'd be happy to make suggestions and give directions.

Rog KCØMWM

3362. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 05:31:47 UTC
From: Mike Manes
Topic: 3356 Message: 3362

If you run into trouble, just whistle - EOSS'll be there.
73 de Mike W5VSI

Harry M wrote:
>
>
> I would like to solicit help at GPSL for the launch and recovery of the
> ORB flight. My son has informed me that he will be unable to attend. If
> you know of anyone that plans to attend that is not committed to a
> flight and would like to help, please let them know. I will welcome them
> with open arms! Experience is optional. Have them contact me here on the
> Group or Thursday or Friday at GPSL.
>
> Thanks & 73
> Harry KC5TRB
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3363. Re: [GPSL] GPSL 2007 meals...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 18:09:00 UTC
From: BASE
Topic: 3359 Message: 3363

Dear Roger,

BASE will only have 6 people, which should match the
recent gain by Taylor. We won't be there in time for
Thursday dinner. With our slow ascent plans (we just
did a 450 ft/min climb on our flight this morning),
I'm sure we'd be late for any group lunch. The
Saturday evening dinner plans are fine with us.

Thanks for all of your efforts,
Howard
--- Roger Hammond <rahammond@...> wrote:

> The Thursday evening meal at El Tapatio's should be
> good to go. I'm
> estimating 25-30 people for that meal. I was
> following up with Valentino's,
> the restaurant for Friday evening's meal, and
> apparently the party room is
> unavailable. They said they would do their best to
> accommodate a group of
> ~50 that evening in the main dining room and attempt
> to seat us together.
>
> I'd like to know what people think about lunch on
> Saturday. With our
> get-together session at the HoJo after recovery, I
> was considering just
> letting the groups find some lunch on their own,
> attend the afternoon
> session, and then everyone getting together on
> Saturday evening...I'm
> considering The Wonderful Garden Chinese restaurant.
> They do a buffet, or
> you can order off the menu, it's close to the HoJo
> and can accommodate a
> fairly large group.
>
> Let me know if anyone is opposed to the idea of
> finding lunch on their own
> on Saturday. I'd be happy to make suggestions and
> give directions.
>
> Rog KC?MWM
>

Boardwalk for $500? In 2007? Ha! Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.
http://get.games.yahoo.com/proddesc?gamekey=monopolyherenow

3364. Re: [GPSL] GPSL 2007 meals...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 18:44:17 UTC
From: mconner1@gmail.com
Topic: 3359 Message: 3364

I would be in favor of lunch on your own since we're planning an afternoon get-together and an evening meal. That way we won't have the usual issue of some recoveries taking longer than others and having our lunch stretch over four hours at some restaurant.

I'll need to be back in Omaha before it gets too late, so I don't know if I'll be staying for the meal Saturday night or not. Unless our recovery goes poorly, we will head back to Grand Island for the afternoon post-mortem.

73 de Mark N9XTN

3365. Grand Island-area repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 18:46:45 UTC
From: mconner1@gmail.com
Topic: 3365 Message: 3365

Roger,

Could we get a preselected list of area repeaters we could use? Probably will need one for within Grand Island itself for pre/post flight activities, plus some others in the probable recovery areas. At the moment, it appears our flights will head SE or SSE perhaps up to 60 miles (east or southeast of Hastings).

73 de Mark N9XTN

3366. Re: [GPSL] Grand Island-area repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 18:58:45 UTC
From: Harry M
Topic: 3365 Message: 3366

Here's a NE state map with repeaters.

http://www.artscipub.com/repeaters/members/showstatemap.asp?statename=Nebraska

---

_

3367. Re: [GPSL] Grand Island-area repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 19:18:51 UTC
From: rahammond@charter.net
Topic: 3365 Message: 3367

These should get you plenty of coverage in and around Grand Island:

http://www.cnnsp.org/Travel.htm

I'll find out which Hastings area repeaters are still in working order...

Rog KC0MWM

---- mconner1@... wrote:
> Roger,
>
> Could we get a preselected list of area repeaters we could use? Probably will need one for within Grand Island itself for pre/post flight activities, plus some others in the probable recovery areas. At the moment, it appears our flights will head SE or SSE perhaps up to 60 miles (east or southeast of Hastings).
>
> 73 de Mark N9XTN

3368. Re: [GPSL] Grand Island-area repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 19:28:22 UTC
From: Harry M
Topic: 3365 Message: 3368

Here is a good Repeater search page...

http://rptr.amateur-radio.net/arn/rptr/index.html

3369. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-27 23:53:25 UTC
From: Harry M
Topic: 3356 Message: 3369

Thanks Mike, I appreciate it!

73 Harry

If you run into trouble, just whistle - EOSS'll be there.
73 de Mike W5VSI

3370. Local repeaters

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-28 11:09:27 UTC
From: Roger Hammond
Topic: 3370 Message: 3370

I moved the local repeater listing (with additions) to the main page at www.superlaunch.org

Roger KCØMWM

3371. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-28 17:58:29 UTC
From: PAUL VERHAGE
Topic: 3356 Message: 3371

This reminds me, I'll need some help getting my near spacecraft launched (if someone has more help then they need).

Thank,
Paul

3372. Re: [GPSL] GPSL 2007 meals...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-28 18:37:59 UTC
From: PAUL VERHAGE
Topic: 3359 Message: 3372

If recovery goes well I'd like to attned lunch.

Paul

>>> "Roger Hammond" <rahammond@...> 06/26/07 4:29 PM >>>
The Thursday evening meal at El Tapatio's should be good to go. I'm
estimating 25-30 people for that meal. I was following up with
Valentino's,
the restaurant for Friday evening's meal, and apparently the party room
is
unavailable. They said they would do their best to accommodate a group
of
~50 that evening in the main dining room and attempt to seat us
together.

I'd like to know what people think about lunch on Saturday. With our
get-together session at the HoJo after recovery, I was considering just
letting the groups find some lunch on their own, attend the afternoon
session, and then everyone getting together on Saturday evening...I'm
considering The Wonderful Garden Chinese restaurant. They do a buffet,
or
you can order off the menu, it's close to the HoJo and can accommodate a
fairly large group.

Let me know if anyone is opposed to the idea of finding lunch on their
own
on Saturday. I'd be happy to make suggestions and give directions.

Rog KCØMWM

3373. Close One

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-28 18:38:58 UTC
From: PAUL VERHAGE
Topic: 3373 Message: 3373

We did the launch for ACE Academy yesterday. The capsule landed roughly three miles from my house. I was hoping we could get it close!

Paul

3374. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-28 19:39:01 UTC
From: Harry M
Topic: 3356 Message: 3374

Hi Paul,

Let's try to get averyone that needs help close enough at the lunch site to help each other. (hotel or lunch discussion).

73 Harry KC5TRB

> This reminds me, I'll need some help getting my near spacecraft launched
> (if
> someone has more help then they need).

3375. GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 13:54:31 UTC
From: mconner1@gmail.com
Topic: 3375 Message: 3375

Things continue to look favorable for flying Saturday the 7th, with a benign pattern surface and aloft. Winds should be nearly calm early in the morning underneath a weak inversion, so an early launch (before 8am or so) would be better.

Earlier this week, the wind fields showed a northwest wind at about 50 knots between 30,000 and 50,000 ft, yielding landing sites about 40-60 miles SSE of the launch site. However, the last couple of forecasts show some weakness in that flow passing overhead Saturday morning, shortening the tracks to about 20 miles and making the direction much more variable. The latest puts the landing about 10 miles NW of Hastings (about 210-200 deg from launch site).

73 de Mark N9XTN

3376. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 14:24:32 UTC
From: Harry M
Topic: 3375 Message: 3376

Hi Mark,

Just curious, do you know how much water is in the Platte River right now!

73 Harry

3377. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 14:32:59 UTC
From: mconner1@gmail.com
Topic: 3375 Message: 3377
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3378. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 14:55:20 UTC
From: Harry M
Topic: 3375 Message: 3378
Attachments: 1 described; binary payloads are missing from this source WARC

At least it isn't as bad as here!
Ribbit! Ribbit! :)

Thanks!

3379. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 17:19:44 UTC
From: Pete Lilja
Topic: 3375 Message: 3379

Being new to HAB I am curious as to weather / wind predictions favorable to high altitude flights. Having a general understanding of weather associated with highs and lows, the Coriolis effect, iso-bars, etc., I am at a loss as to what approaching weather typically does to winds at the surface and winds aloft.

Can anyone give me some pointers (web or otherwise) for what to look for weather-wise in the days prior to a flight - particularly wind?

If it matters I live in northeast Iowa and am hoping to launch my first HAB this Fall (after that evil corn is harvested!).

Thanks,

Pete
KCØGPB

----- Original Message -----
From: mconner1@...
To: gpsl@yahoogroups.com
Sent: Friday, June 29, 2007 8:54 AM
Subject: [GPSL] GPSL weather outlook

Things continue to look favorable for flying Saturday the 7th, with a benign pattern surface and aloft. Winds should be nearly calm early in the morning underneath a weak inversion, so an early launch (before 8am or so) would be better.

Earlier this week, the wind fields showed a northwest wind at about 50 knots between 30,000 and 50,000 ft, yielding landing sites about 40-60 miles SSE of the launch site. However, the last couple of forecasts show some weakness in that flow passing overhead Saturday morning, shortening the tracks to about 20 miles and making the direction much more variable. The latest puts the landing about 10 miles NW of Hastings (about 210-200 deg from launch site).

73 de Mark N9XTN

3380. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 18:33:40 UTC
From: mconner1@gmail.com
Topic: 3375 Message: 3380
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3381. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 18:44:59 UTC
From: PAUL VERHAGE
Topic: 3356 Message: 3381

That sounds good. This year there's a lot of balloons going up, so we may be man-power short.

Isn't it nice to have this problem?

Paul

>>> "Harry M" <hhm_74115@...> 6/28/2007 1:39 PM >>>
Hi Paul,

Let's try to get averyone that needs help close enough at the lunch site to help each other. (hotel or lunch discussion).

73 Harry KC5TRB

> This reminds me, I'll need some help getting my near spacecraft launched
> (if
> someone has more help then they need).

Yahoo! Groups Links

3382. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 19:48:29 UTC
From: rahammond@charter.net
Topic: 3356 Message: 3382

I'm hoping to put together a launch site map graphic with group assignments this weekend and post it to the list. I'll try and put all of the "lean" groups together, in addition to honoring some of my earlier requests. Hopefully some of our CNNSP folks can lend a hand, as well as other on-lookers.

Rog

---- PAUL VERHAGE <paul.verhage@...> wrote:
> That sounds good. This year there's a lot of balloons going up, so we may be man-power short.
>
> Isn't it nice to have this problem?
>
> Paul
>
> >>> "Harry M" <hhm_74115@...> 6/28/2007 1:39 PM >>>
> Hi Paul,
>
> Let's try to get averyone that needs help close enough at the lunch site to
> help each other. (hotel or lunch discussion).
>
> 73 Harry KC5TRB
>
> -----
>
> > This reminds me, I'll need some help getting my near spacecraft launched
> > (if
> > someone has more help then they need).
>
>
>
>
>
> Yahoo! Groups Links
>
>
>

3383. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 20:34:42 UTC
From: Harry M
Topic: 3356 Message: 3383

I always try to recruit non-participants, especially the tether tenders and let them do the release. Makes them feel a part of the event even if they just came to watch.

Rog, what's the mosquito, chigger and tick situation looking like in the area?
I react more than most folks to biting insects. I got bit up by chuggers 3 weeks ago and I'm still suffering.

73 Harry

3384. Re: [GPSL] Close One

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 05:12:20 UTC
From: Mike Manes
Topic: 3373 Message: 3384

Doncha just LOVE summer trajectories? :=}
73 de Mike W5VSI

PAUL VERHAGE wrote:
> We did the launch for ACE Academy yesterday. The capsule landed roughly three miles from my house. I was hoping we could get it close!
>
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3385. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 22:52:19 UTC
From: Mike Manes
Topic: 3375 Message: 3385

The S. Platte is flowing pretty strong here in CO.
73 de Mike W5VSI

Harry M wrote:
> Hi Mark,
>
> Just curious, do you know how much water is in the Platte River right now!
>
> 73 Harry
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3386. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 23:09:06 UTC
From: Mike Manes
Topic: 3375 Message: 3386
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Pete,

Those isobars 'n stuff that affect our surface (tropospheric) weather cant be relied on for stratospheric predictions. For one, the stratosphere is very dry, so there are essentially no clouds. And the winds are generally lighter (except for the jet stream, which hangs out near the tropopause) and are affected primarily by N polar solar flux.

I've attached a pix of the typical winds vs. alt at 40N thruout the year. The Y-axis is westing wind speed (+ = from the west, - = from the east), and the X-axis is the month. So at low altitude, trajectories are generally to the east, as are winter upper winds. But the summer upper air moves to the west, which can make for pretty short launch-to-land trajectories - and even landings W of the launch site.

If you fly in the fall, you may encounter upper air "turnaround", where winds are near calm.

There's a full set of N lats pix on www.eoss.org.

73 de Mike W5VSI, EOSS

Pete Lilja wrote:
> Being new to HAB I am curious as to weather / wind predictions favorable
> to high altitude flights. Having a general understanding of weather
> associated with highs and lows, the Coriolis effect, iso-bars, etc., I
> am at a loss as to what approaching weather typically does to winds at
> the surface and winds aloft.
>
> Can anyone give me some pointers (web or otherwise) for what to look for
> weather-wise in the days prior to a flight - particularly wind?
>
> If it matters I live in northeast Iowa and am hoping to launch my first
> HAB this Fall (after that evil corn is harvested!).
>
> Thanks,
>
> Pete
> KCØGPB
>
>
>
> ----- Original Message -----
> *From:* mconner1@... <mailto:mconner1@...>
> *To:* gpsl@yahoogroups.com <mailto:gpsl@yahoogroups.com>

> *Sent:* Friday, June 29, 2007 8:54 AM
> *Subject:* [GPSL] GPSL weather outlook
>
> Things continue to look favorable for flying Saturday the 7th, with
> a benign pattern surface and aloft. Winds should be nearly calm
> early in the morning underneath a weak inversion, so an early launch
> (before 8am or so) would be better.
>
> Earlier this week, the wind fields showed a northwest wind at about
> 50 knots between 30,000 and 50,000 ft, yielding landing sites about
> 40-60 miles SSE of the launch site. However, the last couple of
> forecasts show some weakness in that flow passing overhead Saturday
> morning, shortening the tracks to about 20 miles and making the
> direction much more variable. The latest puts the landing about 10
> miles NW of Hastings (about 210-200 deg from launch site).
>
> 73 de Mark N9XTN
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3387. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-29 15:09:08 UTC
From: rahammond@charter.net
Topic: 3375 Message: 3387

Harry,

Close to the power plant here...you could easily wade part way out without the current knocking you over. The farmers have started to irrigate in full force, so that will pull it down quickly. I'd stick with Mark's suggestion...."don't land in the river".

:-)

Rog

---- mconner1@... wrote:
> http://waterdata.usgs.gov/ne/nwis/uv?cb_00060=on&cb_00065=on&cb_00045=on&format=gif_stats&period=7&site_no=06770500
> Looks like it's a foot or so above average (80%+ percentile). With the large amount of rain that fell in early June in southwest Nebraska, it probably won't go dry for a while yet this summer.
> So don't land in the river.
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Harry M <hhm_74115@...>
> Date: Friday, June 29, 2007 9:27 am
> Subject: Re: [GPSL] GPSL weather outlook
> To: GPSL@yahoogroups.com
>
> > Hi Mark,
> >
> > Just curious, do you know how much water is in the Platte River
> > right now!
> >
> > 73 Harry
> >

3388. RE: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-30 11:45:00 UTC
From: Roger Hammond
Topic: 3356 Message: 3388

Harry,

We've had a wetter than normal spring, so the mosquitoes have had plenty of places to hatch. They don't normally come out in full force until dusk.
Two weeks ago when we were recovering CNNSP_08, my wife ended up with a tick that needed to be tweezed when we got home. She was out of the Jeep for about 10 minutes and didn't even get in the tall grass, but then she has that kind of luck.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Friday, June 29, 2007 3:35 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL & ORB

☐

I always try to recruit non-participants, especially the tether tenders and let them do the release. Makes them feel a part of the event even if they just came to watch.

Rog, what's the mosquito, chigger and tick situation looking like in the area?
I react more than most folks to biting insects. I got bit up by chuggers 3 weeks ago and I'm still suffering.

73 Harry

3389. Re: [GPSL] GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-30 12:11:56 UTC
From: Harry M
Topic: 3356 Message: 3389

Ok, I'll bring all my bug repellant.
Thanks Rog!

73 Harry

> We've had a wetter than normal spring, so the mosquitoes have had plenty
> of places to hatch. They don't normally
come out in full force until dusk.

3390. TU HARP Launch info

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-30 12:28:50 UTC
From: Patterson, David
Topic: 3390 Message: 3390

Taylor University's High Altitude Research Platform is launching HARP49 today from ITT's Family Day in Fort Wayne. Release is scheduled for 12 noon; APRS callsign will be KB9ZNZ-11.

- David Patterson
dvpatterson@tayloru.edu
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

3391. Helium delivery

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-30 18:00:04 UTC
From: Roger Hammond
Topic: 3391 Message: 3391

In case anyone was worried or wondering, the helium order has arrived at our local dealer.
Thank you Linweld of Grand Island.

73 de Roger KCØMWM

3392. Re: [GPSL] Helium delivery

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-30 20:42:18 UTC
From: Harry M
Topic: 3391 Message: 3392

Yaaaaaaaaaaaaaaahhhhhhh!

Now we can all talk like chipmunks. :)

3393. Re: [GPSL] Helium delivery

Yahoo group: GPSL (2002 — 2008)
Date: 2007-06-30 21:54:27 UTC
From: Joe
Topic: 3391 Message: 3393

And after you're done with the chipmunk try some SF6
http://www.youtube.com/watch?v=HIXEzj08MwE

Joe & NSS

Harry M wrote:

> Yaaaaaaaaaaaaaaahhhhhhh!
>
> Now we can all talk like chipmunks. :)
>

3394. Re: [GPSL] Helium delivery

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-01 00:33:19 UTC
From: J B
Topic: 3391 Message: 3394

Its not in my truck yet...hee hee
Jack
--- Roger Hammond <rahammond@...> wrote:

> In case anyone was worried or wondering, the helium
> order has arrived at our
> local dealer.
> Thank you Linweld of Grand Island.
>
> 73 de Roger KC?MWM
>

Be a better Heartthrob. Get better relationship answers from someone who knows. Yahoo! Answers - Check it out.
http://answers.yahoo.com/dir/?link=list&sid=396545433

3395. 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-01 02:07:21 UTC
From: Roger Hammond
Topic: 3395 Message: 3395
Attachments: 1 described; binary payloads are missing from this source WARC

I did some measuring of the large parking lot at the Webb Road Sports Field this afternoon. The lot is about 150' wide east-west and probably 0.2 mile long north-south. We'll plan on occupying the 300' long area towards the middle of the lot in between the two sets of bleachers with awnings above them. This should let any spectators enter from either end, (there's an entrance gate on each end of the field), and not have to drive past or through any group's designated area. I wanted to overlay this on a Google satellite image, but unfortunately the clouds have that nicely obscured. Imagine the attached image is about 150' top to bottom and 300' across. I'm thinking that parking towards the outside edges and filling towards the middle might be the best solution. I'll have labels on the helium bottles and hopefully have them close to your area as a marker on Saturday morning. Let me know if these positions won't work for anyone.

Roger KCØMWM
rahammond@charter.net

3396. Final head count for Friday Conference Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-01 03:26:49 UTC
From: Roger Hammond
Topic: 3396 Message: 3396

Sorry to sound like a broken record, but here's a list of groups or individuals that have committed to eating the lunch buffet. I'll email the final list on Monday, so anyone not accounted for will have to find lunch on your own. During registration each individual or group can purchase their meal tickets for $11.50 per person. This includes beverage, meal, tax, and gratuity. Arlene KCØZWX will have the meal tickets at the registration table along with the list of groups / individuals that I received from all of you via email. If you're not part of the totals below, I need to know NOW.

Here 'tis....

5 - Taylor University
2 - K0NMS
12 - EOSS
1 - ORB
2 - BUNS
2 - NSTAR
8 - NSV
2 - WB8ELK
6 - BASE
2 - NearSys
2 - KC0MWM
1 - WY0F
1 - K0JLR
1 - WB0PKP

Rog KCØMWM

3397. weather, wind, etc.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-01 16:01:05 UTC
From: K. Mark Caviezel
Topic: 3397 Message: 3397

Posted by: "Pete Lilja" plilja@...
bigheadpete1
Fri Jun 29, 2007 10:18 am (PST)
Being new to HAB I am curious as to weather / wind predictions favorable to high altitude flights.

>>>>>>Pete:
The surface winds at launch are by far the most important factor as they can destroy a partially filled balloon before it can be launched. Strong shears at altitude have been said to tear apart big plastic bag balloons, I'm not sure that any premature failures of the near-spherical latex balloons have been linked to that. Regardless of macroscopic surface winds situation, a good fill and launch can often be made out of a natural depression, a tree-lined field, canyon if the surface winds are across and not down the canyon. Hot air balloon pilots call these sort of launch sites 'sucker holes,' as the inexperienced hot air balloon pilots will launch with an unwarranted sense of confidence in the impending flight. I recommend use of toy latex balloons as pilot balloons or 'pi-balls' to visualize the ascent trajectory. If the pi-ball hits a powerline or structure, that's a good indication that the larger balloon with payloads will, too.

- Mark Caviezel ng0x

3398. Re: 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-01 23:45:46 UTC
From: Nicholas Stich
Topic: 3395 Message: 3398

> Let me know if these positions won't work for anyone.
>
> Roger KCØMWM
> rahammond@...

Roger,

It appears that the file is not attached or stored in Yahoo.

Could you either upload it to the "Photos" section of Yahoo or make it available via the superlaunch site.

Thanks,
Nick
K0NMS

3399. RE: [GPSL] Re: 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-01 23:54:18 UTC
From: Roger Hammond
Topic: 3395 Message: 3399

Nick,

I uploaded it to the files section.

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
Nicholas Stich
Sent: Sunday, July 01, 2007 6:46 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: 2007 launch site assignments

> Let me know if these positions won't work for anyone.
>
> Roger KCØMWM
> rahammond@...

Roger,

It appears that the file is not attached or stored in Yahoo.

Could you either upload it to the "Photos" section of Yahoo or make it
available via the superlaunch site.

Thanks,
Nick
K0NMS

3400. 1st half 2007 ARHAB Flights

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 11:32:22 UTC
From: Ralph Wallio, W0RPK
Topic: 3400 Message: 3400

2007 ARHAB Flights

001] 04Jan07 HABET L-70-C IA Iowa State University
002] 20Jan07 UAH Flight #2 AL University of Alabama - Huntsville
003] 24Jan07 TU BalloonSat-42 IN Taylor University
004] 27Jan07 ANSR-34 AZ
005] 29Jan07 MIT-1 MA MIT Radio Society
006] 11Feb07 ANSR-35 AZ
007] 17Feb07 RFS-23 OK
008] 03Mar07 DART-2 OK
009] 04Mar07 EOSS-114 CO
010] 11Mar07 BioLaunch-1 CA Stanford University
011] 15Mar07 GPA ZP floater MI Grosse Pointe Academy
012] 17Mar07 EOSS-115 CO
013] 30Mar07 SDG-1 SP floater MI Grosse Pointe Academy
014] 31Mar07 ANSR-36 AZ
015] 31Mar07 NNU ID Northwest Nazarene University
016] 01Apr07 ICARUS II TN Univ of Tennessee ARC
017] 06Apr07 ICARUS III TN Univ of Tennessee ARC
018] 07Apr07 UAH ECE AL Univ of Alabama - Huntsville
019] 07Apr07 HABE-I (KE7GRE) WA
020] 09Apr07 SDG-2 SP floater MI Grosse Pointe Academy
021] 14Apr07 Concordia ND Concordia College
022] 14Apr07 ANSR-37 AZ
023] 14Apr07 NNU ID Northwest Nazarene University
024] 15Apr07 FAR HORIZONS-III IL Adler Planetarium
025] 15Apr07 EOSS-116 CO
026] 15Apr07 EOSS-117 CO
027] 17Apr07 SDG-4 MI Grosse Pointe Academy
028] 20Apr07 NSS-42 WI
029] 21Apr07 UX-12 TN Univ of Tennessee ARC
030] 21Apr07 UX-13 TN Univ of Tennessee ARC
031] 21Apr07 Post 632 2007A OH
032] 21Apr07 AHAB-8 AL Auburn University
033] 21Apr07 VAST ID University of Idaho
034] 22Apr07 BRAQ 2007A PQ
035] 23Apr07 TigerCub-2 SC Clemson University
036] 28Apr07 UNDHBP 2007-1 ND University of North Dakota
037] 28Apr07 ISU RISE ID Idaho State University
038] 29Apr07 NSV CNS-015 KS
039] 03May07 UAH SHC-3 AL University of Alabama - Huntsville
040] 09May07 BSAT-45 IN Taylor University
041] 11May07 BioLaunch B07B CA Stanford University
042] 19May07 INTER/UMET PR Universidads Interamericana & Metropolitana
043] 19May07 NSS-42 WI

044] 19May07 MVASTRO-TVNSP ID
045] 23May07 ACES-6 TX LSU Space Sciences
046] 23May07 ACES-7 TX LSU Space Sciences
047] 26May07 CP03 POLAND
048] 09Jun07 HABET LX-106A IA Iowa State University
049] 09Jun07 UTARC UX-14 TN Univ of Tennessee ARC
050] 16Jun07 EOSS-118 CO
051] 16Jun07 CNNSP-08 NE
052] 20Jun07 CNS-017 MO
053] 22Jun07 Concordia ND Concordia College
054] 23Jun07 HABET LX-106B IA Iowa State University
055] 23Jun07 WB8ELK AL
056] 24Jun07 NG0X Solar CO
057] 24Jun07 N0BKB/N0ORU IA
058] 27Jun07 KD4STH ACE ID
059] 30Jun07 HARP49 IN Taylor University
060] 30Jun07 INTER/UMET #1 PR Universidads Interamericana & Metropolitana
061] 01Jul07 INTER/UMET #2 PR Universidads Interamericana & Metropolitana
062] 01Jul07 N0BKB/N0ORU #1 IA
063] 01Jul07 N0BKB/N0ORU #2 IA

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3401. Re: [GPSL] GPSL weather outlook

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 13:44:16 UTC
From: Pete Lilja
Topic: 3375 Message: 3401

Thanks to all that have responded to my HAB weather query. Some good information and suggestions.

Just when ya think you're getting a handle on weather you figger out you've got another 95,000' feet more to learn. 8-) Experimenting and learning is what this is about, though. Oh, and having fun doing!

Another question I've not seen answered anywhere and that's about the gas used. It seems that most HABists use helium and not hydrogen. I understand there is a safety concern using a flammable gas. Never having even witnessed a balloon fill in my mind it seems that filling outdoors could be done safely with hydrogen. The gas would be too rich to burn in the balloon envelope and too lean not too far away (up). I certainly don't mean to start something contentious here and maybe this isn't the correct forum. If so, please correct and direct me away from this.

Pete
KCØGPB

3402. Re: [GPSL] 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 13:57:26 UTC
From: mconner1@gmail.com
Topic: 3395 Message: 3402
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3403. Weather update for Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 14:42:30 UTC
From: mconner1@gmail.com
Topic: 3403 Message: 3403

Still looks good. The biggest concern I have is surface winds, but should be nearly calm at dawn and only up to 10 mph from the southwest by 9am. There is some trend for stronger winds with each forecast, but I don't think it'll get out of hand. Earlier is still better for a launch time.

The track and upper-level wind forecast will be hard to pin down. Over the weekend, the forecasts put the 30-40 kft winds out of the north at about 30 knots. Now they are from the ENE at 15-20 knots, resulting in a landing about 20 mi WSW of the launch site. We could end up underneath a weak upper level low, which would make the track short but in almost any direction.

73 de Mark N9XTN

3404. Re: [GPSL] 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 15:19:36 UTC
From: BASE
Topic: 3395 Message: 3404

Dear friends,

If you want to see an aerial view of the launch site,
you can input the address (1212 S. Webb Road) into
www.mapquest.com and click on aerial image. The image
quality is not as good as maps.google.com, but is
adequate for seeing the fields, parking lot, and
entrances.

I look forward to meeting you all on Friday,
Howard
--- Roger Hammond <rahammond@...> wrote:

> I did some measuring of the large parking lot at the
> Webb Road Sports Field
> this afternoon. The lot is about 150' wide east-west
> and probably 0.2 mile
> long north-south. We'll plan on occupying the 300'
> long area towards the
> middle of the lot in between the two sets of
> bleachers with awnings above
> them. This should let any spectators enter from
> either end, (there's an
> entrance gate on each end of the field), and not
> have to drive past or
> through any group's designated area. I wanted to
> overlay this on a Google
> satellite image, but unfortunately the clouds have
> that nicely obscured.
> Imagine the attached image is about 150' top to
> bottom and 300' across. I'm
> thinking that parking towards the outside edges and
> filling towards the
> middle might be the best solution. I'll have labels
> on the helium bottles
> and hopefully have them close to your area as a
> marker on Saturday morning.
> Let me know if these positions won't work for
> anyone.
>
> Roger KC?MWM
> rahammond@...
>
>

Moody friends. Drama queens. Your life? Nope! - their life, your story. Play Sims Stories at Yahoo! Games.
http://sims.yahoo.com/

3405. Re: [GPSL] 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 15:59:04 UTC
From: mconner1@gmail.com
Topic: 3395 Message: 3405
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3406. Re: [GPSL] 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 16:37:05 UTC
From: rahammond@charter.net
Topic: 3395 Message: 3406

All paved. Asphalt, if I remember correctly.

Rog

---- mconner1@... wrote:
> Roger,
> Is the lot paved or gravel?
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Roger Hammond <rahammond@...>
> Date: Saturday, June 30, 2007 9:09 pm
> Subject: [GPSL] 2007 launch site assignments
> To: GPSL list <GPSL@yahoogroups.com>
>
> > I did some measuring of the large parking lot at the Webb Road
> > Sports Field
> > this afternoon. The lot is about 150' wide east-west and probably
> > 0.2 mile
> > long north-south. We'll plan on occupying the 300' long area
> > towards the
> > middle of the lot in between the two sets of bleachers with
> > awnings above
> > them. This should let any spectators enter from either end,
> > (there's an
> > entrance gate on each end of the field), and not have to drive
> > past or
> > through any group's designated area. I wanted to overlay this on a
> > Googlesatellite image, but unfortunately the clouds have that
> > nicely obscured.
> > Imagine the attached image is about 150' top to bottom and 300'
> > across. I'm
> > thinking that parking towards the outside edges and filling
> > towards the
> > middle might be the best solution. I'll have labels on the helium
> > bottlesand hopefully have them close to your area as a marker on
> > Saturday morning.
> > Let me know if these positions won't work for anyone.
> >
> > Roger KCØMWM
> > rahammond@...
> >
> >

3407. Re: [GPSL] 2007 launch site assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 16:39:30 UTC
From: rahammond@charter.net
Topic: 3395 Message: 3407

Everyone is welcome to fill on the grass if they'd like. The vehicles have to remain on the hard surface.

73 de Rog KC0MWM

---- mconner1@... wrote:
> Here is another view of the complex. I'm trying to download some 2006 aerial ag survey imagery, but it may be tomorrow before it's ready. I can't access the Yahoo files area from work, so unfortunately those who don't get attachments won't be able to see this. It's not substantially different than the Mapquest imagery.
> Can we back up to the grassy areas to fill, or will we need to fill on the parking lot surface? My knees like grass a whole lot better.
> 73 de Mark N9XTN

3408. Another view of Webb complex

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-02 16:51:28 UTC
From: mconner1@gmail.com
Topic: 3408 Message: 3408
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3409. Two large Raven weather balloons for sale on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 03:19:55 UTC
From: Mark Conner
Topic: 3409 Message: 3409

http://cgi.ebay.com/70-FOOT-Upper-Atmospheric-Scientific-Weather-Balloon_W0QQitemZ280130093997QQcmdZViewItem?hash=item280130093997

http://cgi.ebay.com/Large-Upper-Atmospheric-Scientific-Weather-Balloon_W0QQitemZ280130094732QQcmdZViewItem?hash=item280130094732

The 70 ft one is supposedly 264,000 cu ft and manufactured in 1983.
Two days left, no bids so far, min bid $10, shipping $70-$85.

73 de Mark N9XTN

3410. Re: [GPSL] Two large Raven weather balloons for sale on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 04:13:32 UTC
From: Gene Harlan
Topic: 3409 Message: 3410

Had to laugh at the first one as it states "Nominal altitude is 113.5 ft.".

However, the chart shows that it should be 113.5 thousand feet.

Gene - WB9MMM

----- Original Message -----
From: "Mark Conner" <mconner1@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, July 03, 2007 10:19 PM
Subject: [GPSL] Two large Raven weather balloons for sale on eBay

http://cgi.ebay.com/70-FOOT-Upper-Atmospheric-Scientific-Weather-Balloon_W0QQitemZ280130093997QQcmdZViewItem?hash=item280130093997

http://cgi.ebay.com/Large-Upper-Atmospheric-Scientific-Weather-Balloon_W0QQitemZ280130094732QQcmdZViewItem?hash=item280130094732

The 70 ft one is supposedly 264,000 cu ft and manufactured in 1983.
Two days left, no bids so far, min bid $10, shipping $70-$85.

73 de Mark N9XTN

Yahoo! Groups Links

3411. GPSL forecast update, 4 Jul

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 13:44:56 UTC
From: mconner1@gmail.com
Topic: 3411 Message: 3411

Wow, just three days to go before the flights....

The track forecasts have been pretty consistent in putting the landings west or northwest of Hastings. The 06Z GFS forecast has the landing about 12 miles west of Hastings (210 deg at 27 miles from launch).

No major changes in the surface wind forecast. Still expecting an inversion to help keep the winds quiet in the morning (south at less than 5 mph) and it should hold to about 9am. After that, winds will increase to about 10-15 mph. Temps at launch time should be in the low 70s and reach the mid 90s by afternoon. It will be somewhat humid as well. Skies should be mostly clear.

73 de Mark N9XTN

3412. www.superlaunch.org website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 15:40:19 UTC
From: Roger Hammond
Topic: 3412 Message: 3412

As Mark previously stated the track forecasts are remaining fairly consistent in putting the landings west or northwest of Hastings and this might push us to our auxiliary launch site at Wood River High School. I've updated the website www.superlaunch.org and placed the launch position for each group on an image, thanks to Mark N9XTN and Google Maps.

Thursday afternoon I'll be monitoring the local club repeater 146.94- (Tone 123.0) if anyone needs to be in touch with me.

Roger KCØMWM

3413. EOSS to GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 18:58:01 UTC
From: Nick Hanks
Topic: 3413 Message: 3413

The Edge of Space Sciences (EOSS) group will be leaving for Grand Island on Thursday morning at 8:30 AM (MDT). Departure point is Hudson, CO, which is 28 miles NE of downtown Denver. Route is I-76 to I-80 to GI. Expect to arrive in Grand Island about 5:00 PM (CDT). We'll be in a caravan of six vehicle all running APRS on 144.39 MHz. Look for the -6 SSIDs. Web I-gating could get a little thin in places so there could be some pretty good gaps in reporting to findu. Direct APRS messaging to N0KKZ-6 or AE0SS-6. Will come-up on the 146.94- repeater when we get in range.

73,

Nick
N0LP

3414. RE: [GPSL] EOSS to GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 19:04:03 UTC
From: Roger Hammond
Topic: 3413 Message: 3414

Safe travels!

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Nick Hanks
Sent: Wednesday, July 04, 2007 1:58 PM
To: GPSL Mail Group
Subject: [GPSL] EOSS to GPSL

The Edge of Space Sciences (EOSS) group will be leaving for Grand Island on Thursday morning at 8:30 AM (MDT). Departure point is Hudson, CO, which is 28 miles NE of downtown Denver. Route is I-76 to I-80 to GI. Expect to arrive in Grand Island about 5:00 PM (CDT). We'll be in a caravan of six vehicle all running APRS on 144.39 MHz. Look for the -6 SSIDs. Web I-gating could get a little thin in places so there could be some pretty good gaps in reporting to findu. Direct APRS messaging to N0KKZ-6 or AE0SS-6. Will come-up on the 146.94- repeater when we get in range.

73,

Nick
N0LP

3415. Re: [GPSL] www.superlaunch.org website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-04 22:18:46 UTC
From: Harry M
Topic: 3412 Message: 3415

The 1500z predictions, using 90k and 800 fpm for GP puts
landings between I80 and US6/34 along the county line.
Wood River puts landings between I80 and Minden along SR10.

73 Harry

3416. Re: [GPSL] www.superlaunch.org website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 05:55:41 UTC
From: Brek Brixius
Topic: 3412 Message: 3416

I just used Near Space Ventures online balloon track and come up with a predict East of Hastings for launch at Webb Road with ascent rate of 1082 fpm, Burst at 80k (my planned cut away) and descent of 800 fpm. I'm using GRI as the weather station and the 0-84 GFS model. I'm figuring a launch time of 8:00 a.m. since Mike said we were launching the EOSS bird first. Am I doing something wrong?

Brek - KC0YOE

Roger Hammond <rahammond@...> wrote:
As Mark previously stated the track forecasts are remaining fairly consistent in putting the landings west or northwest of Hastings and this might push us to our auxiliary launch site at Wood River High School.
I've updated the website www.superlaunch.org and placed the launch position for each group on an image, thanks to Mark N9XTN and Google Maps.

Thursday afternoon I'll be monitoring the local club repeater 146.94- (Tone 123.0) if anyone needs to be in touch with me.

Roger KC?MWM

Need Mail bonding?
Go to the Yahoo! Mail Q&A for great tips from Yahoo! Answers users.

3417. RE: [GPSL] www.superlaunch.org website updated

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 07:31:33 UTC
From: Rick von Glahn
Topic: 3412 Message: 3417
Attachments: 1 described; binary payloads are missing from this source WARC

I just ran the last predicts from my home qth where I ☐think☐ I know what I☐m doing. Those predictions are posted here:

http://www.eoss.org/flight/prediction.htm

I reinstituted the prediction history page. It has all the predictions I☐ve made for the past week or so. You can easily find it on the menu on the page above. It☐s not too encouraging as the winds are pretty unstable but the distance has been pretty constant. Hmmm, reminds me of some forecaster making that comment a few messages back.

Just for kicks I ran a prediction for Friday landing, east of Hastings. Maybe you slipped a digit when selecting the wind data? Who knows, well Mark knows but who else?

CU guys later today. Now for a quick 4 hours of sleep.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Wednesday, July 04, 2007 11:56 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] www.superlaunch.org website updated

I just used Near Space Ventures online balloon track and come up with a predict East of Hastings for launch at Webb Road with ascent rate of 1082 fpm, Burst at 80k (my planned cut away) and descent of 800 fpm. I'm using GRI as the weather station and the 0-84 GFS model. I'm figuring a launch time of 8:00 a.m. since Mike said we were launching the EOSS bird first. Am I doing something wrong?

Brek - KC0YOE

Roger Hammond <rahammond@...> wrote:

As Mark previously stated the track forecasts are remaining fairly consistent in putting the landings west or northwest of Hastings and this might push us to our auxiliary launch site at Wood River High School.

I've updated the website www.superlaunch.org <http://www.superlaunch.org/> and placed the launch position for each group on an image, thanks to Mark N9XTN and Google Maps.

Thursday afternoon I'll be monitoring the local club repeater 146.94- (Tone 123.0) if anyone needs to be in touch with me.

Roger KCØMWM

Need Mail bonding?
Go to the Yahoo!
<http://answers.yahoo.com/dir/index;_ylc=X3oDMTFvbGNhMGE3BF9TAzM5NjU0NTEwOARfcwMzOTY1NDUxMDMEc2VjA21haWxfdGFnbGluZQRzbGsDbWFpbF90YWcx?link=ask&sid=396546091> Mail Q&A for great
<http://answers.yahoo.com/dir/index;_ylc=X3oDMTFvbGNhMGE3BF9TAzM5NjU0NTEwOARfcwMzOTY1NDUxMDMEc2VjA21haWxfdGFnbGluZQRzbGsDbWFpbF90YWcx?link=ask&sid=396546091> tips from Yahoo! Answers users.

3418. GPSL forecast update

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 14:37:05 UTC
From: mconner1@gmail.com
Topic: 3418 Message: 3418

The surface winds could start to become a factor. The forecast soundings show 30 knots at about 1500' AGL for Saturday morning, but still 5-8 knots from the southwest at the surface for 7am. By 10am the winds increase to 10-15 knots.

This will place a premium on our time early Saturday, as stragglers will have to contend with more wind for the fill and launch process. The schedule is currently showing a 7:30am launch, but experience shows that we are rarely ready by the scheduled time. We may end up launching like we did for GPSL 2005, where the balloons are released whenever the crew feels the wind is putting them at risk too much. A simultaneous release is very exciting to watch, but it depends on everyone being ready in a reasonable time.

Our forecast track also poses some challeges. Using the online Balloon Track I get a track of 225 degrees at 29 miles, which puts the landing about 3 miles northeast of Heartwell. However, this forecast includes some winds above 60,000 ft that are a little suspect. Using some adjusted numbers puts the landing much closer to I-80 and the Platte River near the Shelton exit. If we use this forecast but move the launch to Wood River, that's just a different landing place still near I-80 and the river.

If this holds we may need a launch site south of I-80, which Roger is investigating (possibly near Hastings).

Still expecting sunny, hot, humid weather with afternoon highs in the mid-90s. Also be aware that many of the landing sites will be covered by 8-foot-plus irrigated corn.

73 de Mark N9XTN

3419. Flight Callsigns

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 15:30:37 UTC
From: Doug Eubanks
Topic: 3419 Message: 3419

I hope you all have a good time at the launch this year, I unfortunately work weekends now and don't get to participate in normal weekend fun without taking vacation days and getting someone to cover for me is a real headache.

So, with that in mind, would someone please post the payload callsigns so those of us not present can track via findu. I can access that from work and have learned the trick to tracking multiple stations through findu. Would like to see how well it really works. Post them Friday sometime please, I leave for work early Saturday morning and wouldn't get them if posted as you leave/arrive at the launch site.

~Doug, KAØO

No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.476 / Virus Database: 269.10.0/886 - Release Date: 7/4/2007 1:40 PM

3420. Re: [GPSL] Flight Callsigns

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 15:45:10 UTC
From: mconner1@gmail.com
Topic: 3419 Message: 3420
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3421. RE: [GPSL] Flight Callsigns

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 16:32:40 UTC
From: KA0O
Topic: 3419 Message: 3421

Thanks Mark. I thought I had seen a list, but totally forgot to check the CNNSP site for it! Have a good time out at GI.

~Doug, KAØO

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of mconner1@...
Sent: Thursday, July 05, 2007 10:45 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Flight Callsigns

Doug (and others who may be lurking):

Here's the list of callsigns, slot times, freqs, and modes in use at GPSL.

HYPERLINK "http://www.cnnsp.org/Time_Slot.htm"http://www.cnnsp.-org/Time_-Slot.htm

While NSTAR is listed as having SSTV on 147.585, we've decided that we won't be flying that payload this time.

73 de Mark N9XTN

----- Original Message -----
From: Doug Eubanks <ka0o@...>
Date: Thursday, July 5, 2007 10:33 am
Subject: [GPSL] Flight Callsigns
To: # GPSL <GPSL@yahoogroups.-com>

> I hope you all have a good time at the launch this year, I
> unfortunately work weekends now and don't get to participate in

> normal weekend fun without taking vacation days and getting
> someone to cover for me is a real headache.
>
> So, with that in mind, would someone please post the payload
> callsigns so those of us not present can track via findu. I
can
> access that from work and have learned the trick to tracking
> multiple stations through findu. Would like to see how well it

> really works. Post them Friday sometime please, I leave for
work
> early Saturday morning and wouldn't get them if posted as you

> leave/arrive at the launch site.
>
> ~Doug, KAØO
>
> No virus found in this outgoing message.
> Checked by AVG Free Edition.
> Version: 7.5.476 / Virus Database: 269.10.0/886 - Release Date:

> 7/4/2007 1:40 PM
>
>

No virus found in this incoming message.
Checked by AVG Free Edition.
Version: 7.5.476 / Virus Database: 269.10.0/886 - Release Date:
7/4/2007 1:40 PM

No virus found in this outgoing message.
Checked by AVG Free Edition.
Version: 7.5.476 / Virus Database: 269.10.0/886 - Release Date:
7/4/2007 1:40 PM

3422. WB8ELK unable to attend GPSL 2007

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 21:03:37 UTC
From: wb8elk@aol.com
Topic: 3422 Message: 3422

Still under the weather here so won't be able to make the drive to GPSL2007...I will try to give a talk via the internet on Friday if the hotel wireless internet works.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3423. another launch site if needed....

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 22:39:18 UTC
From: Roger Hammond
Topic: 3423 Message: 3423

If it becomes necessary to launch south I-80, we have permission to use the trap shooting club's facility parking which is north of Doniphan, NE. Doniphan is south of Grand Island on Hwy 281. The trap shooting range is on the north edge of Doniphan. I don't believe its paved but there are gravel access roads and plenty of short green weeds. I was out there this morning and it looks like they have connections for RV's along with parking...I'm assuming for large competition shoots. This is the best I could do on short notice.

Let's see what tomorrow brings.

Roger KCØMWM

3424. oops forgot the link...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 22:40:45 UTC
From: Roger Hammond
Topic: 3424 Message: 3424

http://maps.google.com/maps?f=q
<http://maps.google.com/maps?f=q&hl=en&geocode=&q=Doniphan,+NE&ie=UTF8&ll=40
.77782,-98.372859&spn=0.005614,0.009978&t=k&z=17&om=1>
&hl=en&geocode=&q=Doniphan,+NE&ie=UTF8&ll=40.77782,-98.372859&spn=0.005614,0
.009978&t=k&z=17&om=1

3425. Re: [GPSL] another launch site if needed....

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-05 23:14:43 UTC
From: Zack Clobes
Topic: 3423 Message: 3425

I don't think a trap shooting range would be very high on my launch-site list... ;-)

Roger Hammond wrote:
>
> If it becomes necessary to launch south I-80, we have permission
> to use the trap shooting club's facility parking which is north of
> Doniphan, NE. Doniphan is south of Grand Island on Hwy 281. The trap
> shooting range is on the north edge of Doniphan. I don't believe its
> paved but there are gravel access roads and plenty of short green
> weeds. I was out there this morning and it looks like they have
> connections for RV's along with parking...I'm assuming for large
> competition shoots. This is the best I could do on short notice.
>
> Let's see what tomorrow brings.
>
> Roger KC?MWM
>
>

3426. RE: [GPSL] another launch site if needed....

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-06 02:02:31 UTC
From: Roger Hammond
Topic: 3423 Message: 3426

I don't think they're that good.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Zack Clobes
Sent: Thursday, July 05, 2007 6:15 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] another launch site if needed....

I don't think a trap shooting range would be very high on my launch-site list... ;-)

Roger Hammond wrote:

If it becomes necessary to launch south I-80, we have permission to use the trap shooting club's facility parking which is north of Doniphan, NE. Doniphan is south of Grand Island on Hwy 281. The trap shooting range is on the north edge of Doniphan. I don't believe its paved but there are gravel access roads and plenty of short green weeds. I was out there this morning and it looks like they have connections for RV's along with parking...I'm assuming for large competition shoots. This is the best I could do on short notice.

Let's see what tomorrow brings.

Roger KCØMWM

3427. Nice to meet everyone

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-06 03:47:49 UTC
From: Brek Brixius
Topic: 3427 Message: 3427

It was nice to meet everyone tonight. My wife (Angie) and I are looking forward to learning a lot and having a lot fun at GPSL the next couple of days.

BTW, I figured out my blunder on the predicts. I missed the drop down menu on the second page of online balloon track where you select the launch time. My predicts were all for whatever moment I ran them. I think I have it now.

73

Brek - KC0YOE

Choose the right car based on your needs. Check out Yahoo! Autos new Car Finder tool.

3428. Probable change in launch site

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-06 18:21:21 UTC
From: Mark Conner
Topic: 3428 Message: 3428

For those of you watching GPSL vicariously, we will probably change the launch site to Doniphan, NE. On the north edge of town is a trap/skeet range where we have permission to fly from.

This puts the landings about 10-14 miles west of Hastings, a bit south of Hwy 6. Otherwise we'll end up too close to the Platte and I-80 if we were to use Wood River or the Webb sports complex in GI.

Final decision will be made later this afternoon, probably by 5pm CDT.

73 de Mark N9XTN

3429. GPSL launch site - Doniphan NE at 0700 CDT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 00:25:57 UTC
From: Mark Conner
Topic: 3429 Message: 3429

We have officially moved the launch site to the north side of Doniphan. Also, launch crews will be arriving at 6am CDT for a (hopefully) 7am CDT launch time. This is a bit earlier in the hopes of catching lighter surface winds closer to dawn.

For a 93,000 ft burst, 1000 ft ascent, and 1000 ft descent, the landing is predicted to be a mile or so south of Heartwell.

73 de Mark N9XTN

3430. GPSL Balloons are in the air...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 12:23:58 UTC
From: Zack Clobes
Topic: 3430 Message: 3430

I'm seeing:

KD4STH-9 at 53,000 15mi S-SW of Grand Island
AE0SS-11 at 32,000 8mi S of GI
KC5TRB-11 at 28,000 7mi S of GI
W0NSV-11 at 40,000 13mi S of GI
K0NMS-11 at 23,000 10mi S of GI
KC0YOE at 2,500 just off the launch site
N9XTN-11 seems to be still on the launch pad

The following are MIA on my screen....
KB9ZNZ-11
KC0RRW
W9YJ

3431. Re: [GPSL] GPSL Balloons are in the air...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 12:28:29 UTC
From: Zack Clobes
Topic: 3430 Message: 3431

Harry's (KC5TRB) simplex repeater on 446.100 is working good into Kansas
at 38,000 feet.

Zack Clobes wrote:
>
> I'm seeing:
>
> KD4STH-9 at 53,000 15mi S-SW of Grand Island
> AE0SS-11 at 32,000 8mi S of GI
> KC5TRB-11 at 28,000 7mi S of GI
> W0NSV-11 at 40,000 13mi S of GI
> K0NMS-11 at 23,000 10mi S of GI
> KC0YOE at 2,500 just off the launch site
> N9XTN-11 seems to be still on the launch pad
>
> The following are MIA on my screen....
> KB9ZNZ-11
> KC0RRW
> W9YJ
>
>

3432. Re: [GPSL] GPSL Balloons are in the air...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 12:55:37 UTC
From: Zack Clobes
Topic: 3430 Message: 3432

Paul (KD4STH burst around 87455, and should land around 10 miles W of
Haistings. All other equipment that I can see seems to be working good.

Zack

Zack Clobes wrote:
>
> Harry's (KC5TRB) simplex repeater on 446.100 is working good into
> Kansas at 38,000 feet.
>
> Zack Clobes wrote:
>
>> I'm seeing:
>>
>> KD4STH-9 at 53,000 15mi S-SW of Grand Island
>> AE0SS-11 at 32,000 8mi S of GI
>> KC5TRB-11 at 28,000 7mi S of GI
>> W0NSV-11 at 40,000 13mi S of GI
>> K0NMS-11 at 23,000 10mi S of GI
>> KC0YOE at 2,500 just off the launch site
>> N9XTN-11 seems to be still on the launch pad
>>
>> The following are MIA on my screen....
>> KB9ZNZ-11
>> KC0RRW
>> W9YJ
>>
>

3433. Re: [GPSL] GPSL Balloons are in the air...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 13:28:08 UTC
From: Zack Clobes
Topic: 3430 Message: 3433

KD4STH-11 burst around 8:06 at 78777. W0NSV-11 is probably going to
take the highest burst with 109287 at 8:24am.

Landing zones are starting to look like about 10-20mi W-SW of Hastings.

Zack

Zack Clobes wrote:
>
> Paul (KD4STH burst around 87455, and should land around 10 miles W of
> Haistings. All other equipment that I can see seems to be working good.
>
> Zack
>
> Zack Clobes wrote:
>
>> Harry's (KC5TRB) simplex repeater on 446.100 is working good into
>> Kansas at 38,000 feet.
>>
>> Zack Clobes wrote:
>>
>>> I'm seeing:
>>>
>>> KD4STH-9 at 53,000 15mi S-SW of Grand Island
>>> AE0SS-11 at 32,000 8mi S of GI
>>> KC5TRB-11 at 28,000 7mi S of GI
>>> W0NSV-11 at 40,000 13mi S of GI
>>> K0NMS-11 at 23,000 10mi S of GI
>>> KC0YOE at 2,500 just off the launch site
>>> N9XTN-11 seems to be still on the launch pad
>>>
>>> The following are MIA on my screen....
>>> KB9ZNZ-11
>>> KC0RRW
>>> W9YJ
>>>
>

3434. Re: [GPSL] GPSL Balloons are in the air...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 14:33:22 UTC
From: Zack Clobes
Topic: 3430 Message: 3434

NSTAR inched out the top dog with a burst around 110689 at ~9:04. If I
were NSV, I'd be asking to see Mark's metric conversion factors.. ;-)

EOSS burst at 90849 at 8:26 this morning.

KC0YOE burst around 78368 at 8:31am.

K0NMS-11 burst at 89525 at 9:23am.

Landing zones are now extending out further west - nearly 40mi W-SW of
Hastings. W0NSV has been carried off the farthest so far.

Zack Clobes wrote:
>
> KD4STH-11 burst around 8:06 at 78777. W0NSV-11 is probably going to
> take the highest burst with 109287 at 8:24am.
>
> Landing zones are starting to look like about 10-20mi W-SW of Hastings.
>
> Zack
>
> Zack Clobes wrote:
>
>> Paul (KD4STH burst around 87455, and should land around 10 miles W of
>> Haistings. All other equipment that I can see seems to be working good.
>>
>> Zack
>>
>> Zack Clobes wrote:
>>
>>> Harry's (KC5TRB) simplex repeater on 446.100 is working good into
>>> Kansas at 38,000 feet.
>>>
>>> Zack Clobes wrote:
>>>
>>>> I'm seeing:
>>>>
>>>> KD4STH-9 at 53,000 15mi S-SW of Grand Island
>>>> AE0SS-11 at 32,000 8mi S of GI
>>>> KC5TRB-11 at 28,000 7mi S of GI
>>>> W0NSV-11 at 40,000 13mi S of GI
>>>> K0NMS-11 at 23,000 10mi S of GI
>>>> KC0YOE at 2,500 just off the launch site
>>>> N9XTN-11 seems to be still on the launch pad
>>>>
>>>> The following are MIA on my screen....

>>>> KB9ZNZ-11
>>>> KC0RRW
>>>> W9YJ
>>>>
>

3435. Re: [GPSL] GPSL Balloons are in the air...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 20:45:59 UTC
From: Mark Conner
Topic: 3430 Message: 3435

We did not see this report during the chase, so we thought we may not have gotten ahead of NSV. We did have a visual sighting of the burst, though.

I checked our metric math during prototyping - it's within 3 ft up to >200 kft.

This record was on our second balloon of the day. The first 1200g balloon left early when the load line broke. I decided to risk our 2000g balloon even though the winds were coming up - what would be the odds of losing another balloon? :)

Sorry we couldn't stay for the post-flight festivities, but both of us were too sleep-deprived to stay to the evening and still drive back.

73 de Mark N9XTN

On 7/7/07, Zack Clobes <zclobes@...> wrote:
>
>
>
>
>
>
> NSTAR inched out the top dog with a burst around 110689 at ~9:04. If I were NSV, I'd be asking to see Mark's metric conversion factors.. ;-)
>
> EOSS burst at 90849 at 8:26 this morning.
>
> KC0YOE burst around 78368 at 8:31am.
>
> K0NMS-11 burst at 89525 at 9:23am.
>
> Landing zones are now extending out further west - nearly 40mi W-SW of Hastings. W0NSV has been carried off the farthest so far.
>
>
>

3436. 110,000 ft picture

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 21:19:29 UTC
From: Mark Conner
Topic: 3436 Message: 3436
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3437. Re: [GPSL] 110,000 ft picture

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-07 21:54:14 UTC
From: Joe Lynch
Topic: 3436 Message: 3437

Hi Mark,

That picture is so very beautiful. Thank you for sharing it with the group.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3438. Thanks Everyone!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-08 04:25:35 UTC
From: Brek Brixius
Topic: 3438 Message: 3438

Angie and I are delighted with the results of our first flight (BUNS-1). I have tons of pictures to process and the Barro Switch cutdown gave us a clean separation very near our target of 80,000 ft.

We were able to track our modules all the way to the ground on APRS and then pick it out of the corn field by homing in on the CW beacon.

We didn't set any altitude records or take the clearest pictures that have ever been taken in ARHAB but we did satisfy our objectives and had a really great time in the process.

It was wonderful to put some faces with the names we have seen here in the yahoo GPSL group. It was also great to see what other groups were doing with their projects and then be able to see how things came out at the post flight gathering.

Thanks everyone! We couldn't have done it without you.

73 - Brek - KC0YOE

Be a better Globetrotter. Get better travel answers from someone who knows.
Yahoo! Answers - Check it out.

3439. Chase recap?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 00:42:56 UTC
From: Mark Conner
Topic: 3439 Message: 3439

Would each group provide a quick summary of how their flight went, or a link to their flight's page when it's updated?

For NSTAR we had a pretty nominal flight. We switched frequencies on our main payload prior to launch because my time slotting was a bit off and was hammering ORB's slot. Fortunately the same slot was available on 144.36 instead. The simplex repeater stopped functioning after burst and the radio for it was powered off when it was recovered. It was not well packed because it was a last-minute addition, so it may have hit the power switch or the internal battery may have been jostled so hard that it opened its spring contacts (it's happened before).

We shot 365 pictures during the flight, but the percentage of good ones was pretty low. Our Concord camera seems to be degrading over time (it's three years old). Given my experience with cheap (<$50) digital cameras, I've about decided that I'll need to spend about $75-100 for a decent one. I'm looking for one that's in the 4Mpixel+ range, no optical zoom, and hopefully easy to modify.

73 de Mark N9XTN

3440. GPSL07 FindU FLight Data

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 03:55:38 UTC
From: Harry M
Topic: 3440 Message: 3440

Here is some data I pulled from FindU for the flights that I'm aware of.
If there are any others let me know. I hope it will display correctly.

AE0SS-11
time(UTC) lat lon course speed altitude
20070707115308 40.78100 -98.37267 2505
20070707115509 40.77900 -98.34833 4920
20070707115604 40.77667 -98.34000 102.8 23.7
20070707115609 40.77650 -98.33983 6102
20070707120005 40.77717 -98.31683 90.1 15.0
20070707120009 40.77717 -98.31667 10842
20070707120109 40.77900 -98.31283 11987
20070707120204 40.78067 -98.31100 50.2 7.2
20070707120209 40.78067 -98.31083 13136
20070707120309 40.78133 -98.31000 14287
20070707120404 40.78050 -98.31000 260.5 3.4
20070707120408 40.78050 -98.31017 15476
20070707120509 40.77933 -98.31150 16680
20070707120603 40.77867 -98.31483 282.5 10.0
20070707120608 40.77867 -98.31500 17991
20070707120707 40.77800 -98.32033 19232
20070707120802 40.77683 -98.32600 270.0 12.8
20070707120807 40.77683 -98.32617 20491
20070707120908 40.77550 -98.33217 21734
20070707121003 40.77433 -98.33850 269.6 18.6
20070707121008 40.77433 -98.33883 22983
20070707121107 40.77417 -98.34467 24184
20070707121203 40.77300 -98.35167 250.0 26.0
20070707121208 40.77283 -98.35183 25402
20070707121307 40.77100 -98.35950 26690
20070707121507 40.76783 -98.37383 29182
20070707121602 40.76667 -98.37917 260.4 18.3
20070707121607 40.76667 -98.37950 30338
20070707121707 40.76450 -98.38517 31470
20070707121803 40.76233 -98.39017 263.1 15.7
20070707121807 40.76233 -98.39033 32239
20070707121908 40.75967 -98.39517 33247
20070707122003 40.75567 -98.40033 211.0 24.3
20070707122007 40.75550 -98.40050 34218
20070707122107 40.75083 -98.40617 34984
20070707122203 40.74667 -98.41167 232.6 22.3
20070707122208 40.74650 -98.41183 35770
20070707122307 40.74250 -98.41783 36625
20070707122402 40.73833 -98.42350 214.6 23.1
20070707122508 40.73333 -98.42900 38383

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20070707122603 40.72733 -98.43367 217.5 26.7
20070707122707 40.72017 -98.43967 40145
20070707122802 40.71300 -98.44533 209.6 33.5
20070707122907 40.70483 -98.45200 41916
20070707123003 40.69717 -98.45900 222.4 33.6
20070707123008 40.69700 -98.45933 42723
20070707123108 40.69000 -98.46750 43538
20070707123202 40.68350 -98.47650 223.1 26.5
20070707123207 40.68350 -98.47667 44371
20070707123307 40.67817 -98.48400 45158
20070707123403 40.67467 -98.48883 248.0 17.0
20070707123408 40.67467 -98.48900 46120
20070707123508 40.67067 -98.49333 46844
20070707123603 40.66667 -98.49950 234.7 25.2
20070707123607 40.66650 -98.49967 47736
20070707123708 40.66333 -98.50550 48577
20070707123802 40.65983 -98.51050 217.6 21.2
20070707123807 40.65983 -98.51067 49392
20070707123907 40.65567 -98.51600 50121
20070707124003 40.65217 -98.51983 198.1 17.5
20070707124008 40.65200 -98.51983 50826
20070707124108 40.64950 -98.51950 51816
20070707124202 40.64817 -98.51733 109.0 12.5
20070707124208 40.64817 -98.51717 52816
20070707124307 40.64567 -98.51283 53661
20070707124402 40.64067 -98.50750 154.9 27.2
20070707124407 40.64050 -98.50733 54499
20070707124507 40.63483 -98.50417 55284
20070707124603 40.63017 -98.50483 167.0 12.4
20070707124608 40.63000 -98.50483 56170
20070707124707 40.62567 -98.50533 57008
20070707124802 40.62183 -98.50933 241.6 14.5
20070707124809 40.62183 -98.50933 57842
20070707124908 40.61950 -98.51367 58603
20070707125003 40.61717 -98.51467 205.6 12.4
20070707125007 40.61717 -98.51467 59300
20070707125108 40.61350 -98.51633 60161
20070707125202 40.60683 -98.51600 178.5 19.0
20070707125208 40.60667 -98.51600 61060
20070707125307 40.60033 -98.51717 61961
20070707125402 40.59317 -98.52000 211.6 32.5
20070707125408 40.59300 -98.52033 62849
20070707125508 40.58850 -98.52617 63684
20070707125603 40.58650 -98.53183 258.0 12.4
20070707125608 40.58650 -98.53183 64469
20070707125708 40.58483 -98.53650 65352
20070707125802 40.58250 -98.54333 252.9 18.9
20070707125807 40.58250 -98.54350 66239
20070707125908 40.58117 -98.54933 67053
20070707130003 40.57933 -98.55517 268.5 20.4
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20070707130008 40.57933 -98.55550 67856
20070707130108 40.57867 -98.56233 68701
20070707130202 40.57900 -98.56700 290.3 19.7
20070707130207 40.57900 -98.56733 69591
20070707130307 40.58067 -98.57383 70522
20070707130403 40.58183 -98.57883 280.4 18.5
20070707130409 40.58183 -98.57917 71371
20070707130508 40.58150 -98.58100 72252
20070707130602 40.57800 -98.58067 179.7 20.1
20070707130608 40.57783 -98.58067 73190
20070707130707 40.57167 -98.58133 74155
20070707130802 40.56933 -98.58700 257.7 13.8
20070707130807 40.56917 -98.58717 75147
20070707130908 40.56850 -98.59183 76022
20070707131002 40.56700 -98.59717 222.5 13.9
20070707131008 40.56700 -98.59733 76842
20070707131107 40.56367 -98.60300 77659
20070707131203 40.56150 -98.61100 250.1 16.9
20070707131207 40.56150 -98.61117 78498
20070707131308 40.55967 -98.61733 79412
20070707131403 40.55750 -98.62583 274.2 34.4
20070707131408 40.55750 -98.62633 80369
20070707131508 40.55817 -98.63567 81296
20070707131603 40.55767 -98.64367 268.1 26.2
20070707131609 40.55767 -98.64400 82228
20070707131707 40.55783 -98.65017 83111
20070707131803 40.55667 -98.65700 243.2 24.1
20070707131807 40.55667 -98.65717 83970
20070707131908 40.55683 -98.66600 84828
20070707132003 40.55717 -98.67500 274.3 31.6
20070707132008 40.55717 -98.67533 85649
20070707132108 40.55767 -98.68667 86494
20070707132203 40.56000 -98.69533 284.6 27.1
20070707132208 40.56017 -98.69567 87368
20070707132308 40.55983 -98.70500 88268
20070707132403 40.56033 -98.71400 277.6 29.2
20070707132407 40.56033 -98.71433 89127
20070707132508 40.56200 -98.72367 89983
20070707132608 40.56300 -98.73250 90826
20070707132708 40.56317 -98.74083 87340
20070707132802 40.56317 -98.74733 293.3 29.7
20070707132808 40.56317 -98.74767 80345
20070707132908 40.56033 -98.75500 75118
20070707133003 40.55783 -98.75900 270.2 9.0
20070707133008 40.55783 -98.75917 70072
20070707133107 40.55700 -98.76317 65568
20070707133203 40.55450 -98.76867 207.9 17.8
20070707133208 40.55450 -98.76883 61603
20070707133307 40.55100 -98.77067 58070
20070707133402 40.54600 -98.77183 200.9 22.9
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20070707133410 40.54583 -98.77183 54870
20070707133508 40.54183 -98.77217 51928
20070707133605 40.53867 -98.77483 242.2 17.4
20070707133609 40.53850 -98.77500 49197
20070707133707 40.53617 -98.77767 46646
20070707133803 40.53300 -98.78067 222.7 30.3
20070707133808 40.53267 -98.78067 44308
20070707133907 40.52817 -98.78933 42112
20070707134003 40.52200 -98.79717 204.5 28.9
20070707134008 40.52183 -98.79733 40011
20070707134107 40.51683 -98.80450 37999
20070707134208 40.51333 -98.81117 36097
20070707134307 40.51017 -98.81833 34280
20070707134403 40.50717 -98.82433 231.3 11.7
20070707134409 40.50717 -98.82450 32561
20070707134608 40.50533 -98.83667 29282
20070707134908 40.50367 -98.85917 24653
20070707135008 40.50333 -98.86517 23170
20070707135108 40.50267 -98.87083 21723
20070707135208 40.50183 -98.87533 20286
20070707135708 40.49733 -98.88250 13783
20070707135808 40.49717 -98.87817 12588
20070707135908 40.49817 -98.87333 11478
20070707140008 40.49900 -98.86967 10506
20070707140108 40.50017 -98.86633 9502
20070707140308 40.50217 -98.86033 7582
20070707140408 40.50300 -98.85750 6604
20070707140608 40.50333 -98.84883 4738
20070707140708 40.50217 -98.83933 3693

K0NMS-11

time(UTC) lat lon course speed altitude
20070707114511 40.78217 -98.36933 82.0 29.0 2742
20070707114610 40.78183 -98.35750 95.0 39.0 3569
20070707114714 40.78017 -98.34350 107.0 29.0 4494
20070707114814 40.77750 -98.33450 117.0 22.0 5439
20070707114914 40.77517 -98.32817 112.0 18.0 6318
20070707115014 40.77367 -98.32267 102.0 14.0 7260
20070707115114 40.77383 -98.31683 77.0 17.0 8152
20070707115215 40.77417 -98.31117 77.0 15.0 9097
20070707115314 40.77517 -98.30583 72.0 17.0 10025
20070707115414 40.77583 -98.29967 81.0 16.0 10963
20070707115514 40.77750 -98.29550 36.0 11.0 11931
20070707115615 40.77950 -98.29417 34.0 10.0 12912
20070707115714 40.78150 -98.29283 28.0 1.0 13795
20070707115814 40.78050 -98.29250 131.0 3.0 14667
20070707115914 40.77967 -98.29217 179.0 3.0 15054
20070707120014 40.77850 -98.29283 206.0 4.0 15448
20070707120114 40.77750 -98.29333 192.0 4.0 15845
20070707120214 40.77683 -98.29400 244.0 3.0 16245
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20070707120314 40.77583 -98.29550 247.0 8.0 16685
20070707120415 40.77467 -98.29883 253.0 10.0 17164
20070707120513 40.77350 -98.30267 256.0 11.0 17541
20070707120613 40.77283 -98.30667 248.0 11.0 17931
20070707120713 40.77183 -98.31083 255.0 12.0 18328
20070707120813 40.77133 -98.31567 268.0 14.0 18702
20070707121114 40.76850 -98.33267 254.0 17.0 19854
20070707121213 40.76717 -98.33867 254.0 16.0 20218
20070707121313 40.76600 -98.34450 255.0 18.0 20595
20070707121413 40.76467 -98.35050 257.0 16.0 20963
20070707121513 40.76350 -98.35650 251.0 17.0 21350
20070707121613 40.76200 -98.36200 250.0 16.0 21734
20070707121713 40.76067 -98.36817 257.0 18.0 22114
20070707121813 40.75967 -98.37483 265.0 16.0 22515
20070707121913 40.75900 -98.38100 259.0 16.0 22931
20070707122015 40.75850 -98.38683 260.0 15.0 23364
20070707122113 40.75800 -98.39250 268.0 16.0 23814
20070707122214 40.75783 -98.39933 269.0 18.0 24276
20070707122314 40.75767 -98.40617 267.0 17.0 24713
20070707122413 40.75750 -98.41300 260.0 18.0 25146
20070707122514 40.75633 -98.42017 262.0 21.0 25631
20070707122613 40.75483 -98.42733 252.0 21.0 26094
20070707122713 40.75300 -98.43517 253.0 21.0 26491
20070707122813 40.75117 -98.44317 249.0 21.0 26920
20070707122914 40.74950 -98.45100 252.0 23.0 27347
20070707123014 40.74817 -98.45817 256.0 22.0 27767
20070707123113 40.74683 -98.46567 260.0 21.0 28213
20070707123213 40.74617 -98.47250 261.0 19.0 28653
20070707123313 40.74517 -98.47833 249.0 15.0 29086
20070707123413 40.74417 -98.48400 256.0 16.0 29552
20070707123513 40.74317 -98.48967 261.0 18.0 29958
20070707123613 40.74217 -98.49550 260.0 17.0 30395
20070707123713 40.74083 -98.50167 255.0 16.0 30828
20070707123813 40.73950 -98.50733 244.0 15.0 31267
20070707123913 40.73783 -98.51267 250.0 17.0 31694
20070707124013 40.73617 -98.51833 245.0 19.0 32150
20070707124113 40.73417 -98.52417 244.0 17.0 32622
20070707124213 40.73183 -98.52950 237.0 18.0 33114
20070707124314 40.72900 -98.53450 236.0 19.0 33590
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20070707124514 40.72133 -98.54617 227.0 23.0 34453
20070707124613 40.71667 -98.55217 221.0 25.0 34860
20070707124713 40.71183 -98.55800 227.0 22.0 35306
20070707124813 40.70783 -98.56467 231.0 23.0 35745
20070707124913 40.70383 -98.57100 223.0 24.0 36214
20070707125013 40.69933 -98.57667 217.0 23.0 36720
20070707125113 40.69467 -98.58217 223.0 23.0 37228
20070707125213 40.68917 -98.58767 219.0 25.0 37727
20070707125313 40.68300 -98.59317 211.0 27.0 38206
20070707125413 40.67700 -98.59850 209.0 27.0 38662
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20070707125513 40.67100 -98.60417 214.0 29.0 39151
20070707125613 40.66467 -98.61033 220.0 30.0 39636
20070707125713 40.65817 -98.61667 214.0 29.0 40118
20070707125813 40.65150 -98.62250 212.0 30.0 40581
20070707125913 40.64417 -98.62883 216.0 33.0 41067
20070707130014 40.63633 -98.63600 219.0 33.0 41539
20070707130113 40.62917 -98.64300 217.0 31.0 42028
20070707130213 40.62183 -98.65017 214.0 31.0 42546
20070707130313 40.61517 -98.65767 221.0 30.0 43084
20070707130413 40.60900 -98.66650 232.0 32.0 43609
20070707130514 40.60417 -98.67600 240.0 28.0 44186
20070707130613 40.60033 -98.68350 228.0 26.0 44767
20070707130713 40.59633 -98.68967 228.0 17.0 45272
20070707130813 40.59400 -98.69350 238.0 7.0 45830
20070707130913 40.59083 -98.69600 211.0 15.0 46319
20070707131014 40.58667 -98.69917 212.0 16.0 46821
20070707131114 40.58367 -98.70350 243.0 16.0 47372
20070707131215 40.58150 -98.70800 246.0 10.0 47953
20070707131313 40.57950 -98.71150 242.0 17.0 48540
20070707131413 40.57733 -98.71617 226.0 11.0 49104
20070707131514 40.57467 -98.72000 227.0 13.0 49714
20070707131614 40.57133 -98.72317 217.0 13.0 50341
20070707131713 40.56833 -98.72700 236.0 13.0 50964
20070707131813 40.56633 -98.73033 223.0 13.0 51525
20070707131913 40.56300 -98.73233 203.0 13.0 52037
20070707132014 40.56067 -98.73233 151.0 11.0 52746
20070707132113 40.55767 -98.73050 153.0 14.0 53405
20070707132213 40.55350 -98.72817 163.0 19.0 54048
20070707132313 40.54833 -98.72783 188.0 19.0 54596
20070707132412 40.54300 -98.73000 196.0 19.0 55081
20070707132512 40.53717 -98.72917 166.0 28.0 55623
20070707132611 40.53017 -98.72733 171.0 24.0 56233
20070707132711 40.52400 -98.72867 204.0 22.0 56886
20070707132810 40.52050 -98.73267 222.0 15.0 57473
20070707132910 40.51833 -98.73683 232.0 15.0 58027
20070707133010 40.51617 -98.73933 192.0 7.0 58582
20070707133109 40.51417 -98.73933 170.0 7.0 59169
20070707133209 40.51283 -98.74017 236.0 6.0 59802
20070707133308 40.51033 -98.74283 211.0 12.0 60455
20070707133410 40.50400 -98.74567 196.0 28.0 61016
20070707133509 40.49850 -98.74800 205.0 20.0 61584
20070707133607 40.49317 -98.75217 220.0 22.0 62181
20070707133707 40.48800 -98.75833 222.0 25.0 62804
20070707133806 40.48567 -98.76500 274.0 19.0 63503
20070707133907 40.48583 -98.77117 262.0 14.0 64034
20070707134006 40.48517 -98.77617 261.0 10.0 64576
20070707134105 40.48383 -98.78033 242.0 17.0 65192
20070707134205 40.48217 -98.78683 244.0 20.0 65829
20070707134304 40.48083 -98.79233 249.0 12.0 66396
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20070707115817 40.77917 -98.37617 10.0 7.0 1984
20070707115916 40.78117 -98.36817 117.0 33.0 3241
20070707120016 40.77933 -98.35567 133.0 35.0 4645
20070707120115 40.77633 -98.34750 118.0 30.0 6052
20070707120215 40.77550 -98.34200 92.0 25.0 7420
20070707120315 40.77583 -98.33667 44.0 21.0 8801
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20070707122338 40.75300 -98.40600 221.0 14.0 37350
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20070707023702 40.88783 -98.34033 207.0 0.0 1866
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20070707122902 40.77733 -98.32700 60.0 14.0 11104
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20070707123102 40.78050 -98.32033 138.0 1.0 13631
20070707123202 40.78017 -98.31917 105.0 7.0 14877
20070707123302 40.77950 -98.31917 162.0 1.0 16199
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20070707123602 40.77733 -98.33283 264.0 22.0 19920
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20070707124402 40.77217 -98.38417 292.0 17.0 29509
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20070707125602 40.71683 -98.45567 213.0 28.0 42625
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20070707180137 40.54967 -98.65783 116.0 0.0 2056
20070707180237 40.54967 -98.65783 116.0 0.0 2056
20070707180336 40.54967 -98.65783 116.0 0.0 2056
20070707180437 40.54967 -98.65783 116.0 0.0 2056
20070707180536 40.54967 -98.65783 116.0 0.0 2056
20070707180635 40.54967 -98.65783 116.0 0.0 2056
20070707180735 40.54967 -98.65783 116.0 0.0 2056
20070707180834 40.54967 -98.65783 116.0 0.0 2056
20070707180934 40.54967 -98.65783 116.0 0.0 2056
20070707181034 40.54967 -98.65783 116.0 0.0 2056
20070707181133 40.54967 -98.65783 116.0 0.0 2056
20070707181233 40.54967 -98.65783 116.0 0.0 2056
20070707181332 40.54967 -98.65783 116.0 0.0 2056
20070707181432 40.54967 -98.65783 116.0 0.0 2056
20070707181532 40.54967 -98.65783 116.0 0.0 2056

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time(UTC) lat lon course speed altitude
20070706215632 36.16550 -95.93967 0.0 0.0
20070707010732 40.88800 -98.34117 241.0 0.0 1863
20070707115932 40.78000 -98.35617 100.0 33.0 4333
20070707120332 40.77600 -98.32933 66.0 9.0 9559
20070707120532 40.77817 -98.31900 50.0 8.0 12285
20070707120832 40.77883 -98.31750 230.0 9.0 16393
20070707120932 40.77833 -98.32050 278.0 11.0 17708
20070707121032 40.77750 -98.32533 252.0 12.0 18975
20070707121132 40.77667 -98.33100 255.0 16.0 20300
20070707121233 40.77533 -98.33717 267.0 14.0 21596
20070707121432 40.77317 -98.34950 251.0 19.0 23768
20070707121632 40.77167 -98.36350 259.0 20.0 26212
20070707121832 40.76900 -98.37917 254.0 14.0 28597
20070707122132 40.76400 -98.39650 230.0 12.0 32393
20070707122232 40.76133 -98.40167 217.0 22.0 33616
20070707122332 40.75700 -98.40683 228.0 22.0 34630
20070707122432 40.75233 -98.41250 235.0 20.0 35873
20070707122532 40.74833 -98.41867 238.0 23.0 37159
20070707122632 40.74383 -98.42400 229.0 23.0 38291
20070707122733 40.73717 -98.42917 214.0 23.0 39639
20070707122832 40.73017 -98.43500 217.0 28.0 40922
20070707122932 40.72217 -98.44200 208.0 28.0 42218
20070707123032 40.71500 -98.45033 225.0 28.0 43606
20070707123132 40.70867 -98.45867 226.0 30.0 44839
20070707123232 40.70433 -98.46417 230.0 9.0 46014
20070707123332 40.70033 -98.46950 224.0 23.0 47218
20070707123432 40.69700 -98.47533 250.0 21.0 48418
20070707123532 40.69383 -98.48117 226.0 17.0 49491
20070707123632 40.69033 -98.48633 217.0 16.0 50508
20070707123832 40.68667 -98.48467 110.0 16.0 53028
20070707123932 40.68317 -98.47950 127.0 27.0 54189
20070707124032 40.67817 -98.47567 169.0 24.0 55213
20070707124135 40.67317 -98.47583 164.0 10.0 56197
20070707124232 40.66850 -98.47583 198.0 19.0 57073
20070707124332 40.66517 -98.48033 254.0 17.0 57991
20070707124432 40.66300 -98.48367 179.0 12.0 58903
20070707124532 40.65983 -98.48500 209.0 13.0 59760
20070707124632 40.65417 -98.48567 178.0 23.0 60685
20070707124732 40.64800 -98.48567 187.0 20.0 61610
20070707124832 40.64083 -98.48733 199.0 22.0 62532
20070707124933 40.63550 -98.49250 245.0 22.0 63454
20070707125032 40.63350 -98.49833 243.0 19.0 64353
20070707125132 40.63117 -98.50317 233.0 20.0 65304
20070707125232 40.62867 -98.51050 240.0 22.0 66268
20070707125332 40.62800 -98.51683 269.0 15.0 67167
20070707125432 40.62633 -98.52333 258.0 21.0 68125
20070707125532 40.62500 -98.53017 264.0 19.0 69073
20070707125632 40.62583 -98.53583 296.0 18.0 70002
20070707125733 40.62733 -98.54317 304.0 13.0 70907
20070707125832 40.62850 -98.54800 293.0 10.0 71786
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20070707130032 40.61967 -98.54750 199.0 21.0 73761
20070707130132 40.61600 -98.55183 244.0 19.0 74837
20070707130232 40.61467 -98.55600 240.0 11.0 75858
20070707130332 40.61333 -98.56017 228.0 13.0 76862
20070707130434 40.61017 -98.56400 243.0 24.0 77879
20070707130532 40.60800 -98.57150 236.0 22.0 78777
20070707130632 40.60533 -98.57633 194.0 16.0 72928
20070707130732 40.60500 -98.58033 229.0 12.0 67013
20070707130832 40.60283 -98.58533 203.0 26.0 61702
20070707130932 40.59833 -98.58800 210.0 16.0 57040
20070707131032 40.59350 -98.58683 128.0 16.0 52765
20070707131134 40.59117 -98.58933 265.0 18.0 48960
20070707131233 40.58817 -98.59383 253.0 19.0 45479
20070707131332 40.58317 -98.60150 223.0 33.0 41926
20070707131432 40.57650 -98.60817 217.0 30.0 38583
20070707131533 40.57200 -98.61450 241.0 20.0 35421
20070707131632 40.56800 -98.62117 243.0 24.0 32537
20070707131733 40.56650 -98.62767 241.0 16.0 29755
20070707131833 40.56600 -98.63500 243.0 26.0 27196
20070707131933 40.56500 -98.64383 264.0 26.0 24729
20070707132032 40.56450 -98.65050 223.0 12.0 22311
20070707132432 40.56217 -98.65917 90.0 19.0 13532
20070707132943 40.56383 -98.63517 107.0 27.0 3887

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time(UTC) lat lon course speed altitude
20070707114154 40.78017 -98.35600 93.0 34.0 4468
20070707114255 40.77750 -98.34717 124.0 22.0 5901
20070707114356 40.77617 -98.34050 82.0 22.0 7348
20070707114456 40.77667 -98.33433 102.0 14.0 8778
20070707114600 40.77767 -98.32850 90.0 11.0 10232
20070707114658 40.77867 -98.32350 55.0 13.0 11662
20070707114759 40.78067 -98.32233 299.0 3.0 13083
20070707114859 40.78133 -98.32150 169.0 8.0 14585
20070707115000 40.78017 -98.32167 343.0 2.0 16052
20070707115100 40.77867 -98.32450 279.0 17.0 17561
20070707115201 40.77783 -98.32900 279.0 13.0 18975
20070707115302 40.77683 -98.33450 270.0 17.0 20356
20070707115404 40.77550 -98.34050 241.0 10.0 21790
20070707115504 40.77383 -98.34717 251.0 22.0 23226
20070707115805 40.76850 -98.37050 256.0 21.0 27550
20070707115906 40.76700 -98.37867 238.0 15.0 28938
20070707120007 40.76533 -98.38483 236.0 14.0 30244
20070707120109 40.76383 -98.39117 235.0 21.0 31727
20070707120210 40.76100 -98.39733 208.0 18.0 33049
20070707120310 40.75617 -98.40283 215.0 14.0 34374
20070707120409 40.75183 -98.40883 243.0 26.0 35693
20070707120510 40.74750 -98.41400 212.0 21.0 36985
20070707120611 40.74317 -98.41933 221.0 23.0 38426
20070707120711 40.73733 -98.42483 217.0 22.0 39715

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20070707120812 40.72950 -98.43033 198.0 29.0 41017
20070707121115 40.70817 -98.45183 207.0 27.0 44980
20070707121215 40.70417 -98.45650 200.0 20.0 46234
20070707121316 40.70050 -98.46200 204.0 13.0 47556
20070707121416 40.69750 -98.46800 224.0 23.0 48904
20070707121517 40.69417 -98.47417 233.0 29.0 50272
20070707121618 40.69033 -98.47700 55.0 3.0 51650
20070707121718 40.69050 -98.47533 75.0 12.0 53028
20070707121819 40.68817 -98.47250 144.0 31.0 54288
20070707121920 40.68350 -98.47100 223.0 8.0 55619
20070707122021 40.67833 -98.46950 207.0 32.0 56987
20070707122121 40.67500 -98.47233 228.0 18.0 58119
20070707122222 40.67233 -98.47433 176.0 9.0 59330
20070707122324 40.66950 -98.47583 181.0 18.0 60478
20070707122423 40.66367 -98.47633 197.0 14.0 61551
20070707122524 40.65700 -98.47950 204.0 36.0 62620
20070707122625 40.65283 -98.48483 223.0 17.0 63716
20070707122726 40.64983 -98.48950 218.0 19.0 64854
20070707122826 40.64683 -98.49633 224.0 12.0 66045
20070707122927 40.64650 -98.50250 293.0 12.0 67213
20070707123028 40.64467 -98.50833 271.0 17.0 68345
20070707123129 40.64400 -98.51450 272.0 14.0 69398
20070707123229 40.64483 -98.52200 295.0 25.0 70432
20070707123330 40.64600 -98.52883 270.0 16.0 71596
20070707123431 40.64300 -98.53000 176.0 14.0 72767
20070707123531 40.63800 -98.53167 213.0 18.0 73991
20070707123632 40.63583 -98.53700 203.0 8.0 75192
20070707123733 40.63517 -98.54117 228.0 8.0 76415
20070707123834 40.63250 -98.54483 261.0 18.0 77646
20070707123934 40.63000 -98.55100 265.0 11.0 78807
20070707124035 40.62717 -98.55800 267.0 28.0 79998
20070707124136 40.62833 -98.56767 272.0 20.0 81343
20070707124237 40.63000 -98.57550 313.0 23.0 82652
20070707124337 40.63133 -98.58117 284.0 9.0 83849
20070707124438 40.63100 -98.58950 294.0 25.0 85037
20070707124539 40.63067 -98.59933 265.0 32.0 86208
20070707124640 40.63150 -98.61017 254.0 26.0 87392
20070707124740 40.63050 -98.62017 265.0 22.0 87455
20070707124841 40.63017 -98.62850 272.0 22.0 81494
20070707124942 40.62833 -98.63467 262.0 10.0 76255
20070707125043 40.62533 -98.63783 251.0 11.0 71701
20070707125143 40.62517 -98.64450 254.0 21.0 67492
20070707125244 40.62333 -98.65033 256.0 26.0 63568
20070707125345 40.61683 -98.65300 186.0 22.0 59924
20070707125447 40.61333 -98.65533 182.0 28.0 56558
20070707125546 40.60883 -98.65383 141.0 29.0 53661
20070707125647 40.60650 -98.65183 155.0 11.0 51102
20070707125748 40.60350 -98.65617 206.0 16.0 48678
20070707125848 40.59983 -98.66100 231.0 20.0 46312
20070707125949 40.59600 -98.66633 255.0 32.0 43911
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20070707130050 40.58933 -98.67483 231.0 35.0 41739
20070707130150 40.58233 -98.68150 196.0 28.0 39810
20070707130251 40.57550 -98.68783 219.0 37.0 37976
20070707130454 40.56683 -98.70150 224.0 33.0 34489
20070707130553 40.56283 -98.70800 242.0 28.0 32776
20070707130654 40.56150 -98.71467 286.0 15.0 31149
20070707130755 40.56033 -98.72083 240.0 20.0 29591
20070707130856 40.55967 -98.72867 271.0 27.0 28065
20070707130956 40.55867 -98.73700 281.0 24.0 26560
20070707131058 40.55817 -98.74550 256.0 16.0 25113
20070707131158 40.55867 -98.75283 245.0 17.0 23646
20070707131259 40.55850 -98.75967 237.0 19.0 22232
20070707131359 40.55800 -98.76617 303.0 9.0 20861
20070707131501 40.55783 -98.77100 238.0 14.0 19549
20070707131601 40.55783 -98.77533 301.0 3.0 18253
20070707131702 40.55650 -98.77800 181.0 11.0 16987
20070707131803 40.55517 -98.77850 172.0 11.0 15727
20070707132105 40.55583 -98.76833 58.0 18.0 11954
20070707132206 40.55633 -98.76383 57.0 6.0 10806
20070707132306 40.55700 -98.75950 61.0 17.0 9707
20070707132609 40.55750 -98.74767 143.0 3.0 6439
20070707132709 40.55700 -98.74433 97.0 17.0 5373
20070707132912 40.55483 -98.72717 109.0 27.0 3280

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time(UTC) lat lon course speed altitude
20070707120140 40.77917 -98.37533 0.0 0.0 1952
20070707120324 40.77917 -98.37533 0.0 0.0 1958
20070707120525 40.77917 -98.37533 0.0 0.0 1958
20070707120725 40.77917 -98.37533 0.0 0.0 1955
20070707122324 40.77733 -98.33783 117.0 19.0 5190
20070707122623 40.77367 -98.32250 83.0 16.0 7668
20070707122723 40.77400 -98.31667 89.0 24.0 8439
20070707122823 40.77433 -98.31083 95.0 21.0 9220
20070707122923 40.77467 -98.30433 82.0 17.0 10114
20070707123223 40.77833 -98.29067 62.0 14.0 12749
20070707123325 40.77983 -98.28800 22.0 12.0 13589
20070707123423 40.78000 -98.28633 169.0 8.0 14449
20070707123624 40.77917 -98.28617 267.0 4.0 16355
20070707123824 40.77833 -98.29300 256.0 12.0 18317
20070707123923 40.77783 -98.29800 249.0 21.0 19295
20070707124027 40.77650 -98.30350 240.0 19.0 20239
20070707124124 40.77567 -98.30917 260.0 11.0 21269
20070707124223 40.77467 -98.31483 273.0 23.0 22264
20070707124323 40.77417 -98.32067 289.0 13.0 23255
20070707124423 40.77383 -98.32633 299.0 11.0 24222
20070707124524 40.77383 -98.33350 281.0 17.0 25204
20070707124623 40.77300 -98.34100 268.0 24.0 26158
20070707124823 40.77033 -98.35550 277.0 14.0 28124
20070707124923 40.77017 -98.36100 266.0 15.0 29102
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20070707125024 40.76933 -98.36600 251.0 21.0 30098
20070707125124 40.76817 -98.37150 213.0 13.0 31102
20070707125224 40.76750 -98.37617 226.0 14.0 32119
20070707125324 40.76517 -98.38217 248.0 24.0 33133
20070707125423 40.76167 -98.38800 226.0 26.0 34121
20070707125523 40.75633 -98.39400 211.0 28.0 35069
20070707125624 40.75150 -98.40000 245.0 19.0 36014
20070707125723 40.74733 -98.40600 231.0 15.0 37051
20070707125823 40.74300 -98.41150 207.0 26.0 37980
20070707125924 40.73767 -98.41667 225.0 25.0 38947
20070707130023 40.73150 -98.42333 210.0 32.0 39850
20070707130124 40.72450 -98.42917 231.0 27.0 40728
20070707130224 40.71733 -98.43550 222.0 34.0 41673
20070707130323 40.71083 -98.44350 224.0 25.0 42595
20070707130424 40.70417 -98.45283 225.0 43.0 43619
20070707130523 40.69933 -98.46183 231.0 23.0 44583
20070707130623 40.69567 -98.46700 235.0 17.0 45568
20070707130723 40.69133 -98.47150 244.0 13.0 46510
20070707130824 40.68900 -98.47733 226.0 12.0 47461
20070707130924 40.68667 -98.48383 239.0 20.0 48583
20070707131023 40.68233 -98.48900 189.0 16.0 49630
20070707131224 40.67600 -98.49400 190.0 9.0 51857
20070707131324 40.67500 -98.49100 111.0 15.0 52917
20070707131524 40.66600 -98.48383 192.0 16.0 55089
20070707131623 40.66183 -98.48383 139.0 25.0 56149
20070707131723 40.65700 -98.48450 183.0 17.0 57199
20070707131824 40.65467 -98.48950 256.0 20.0 58308
20070707131924 40.65200 -98.49167 163.0 8.0 59384
20070707132023 40.64783 -98.49383 202.0 27.0 60393
20070707132123 40.64183 -98.49500 201.0 27.0 61473
20070707132224 40.63467 -98.49917 209.0 33.0 62536
20070707132324 40.63217 -98.50433 281.0 16.0 63684
20070707132423 40.63100 -98.50833 231.0 10.0 64800
20070707132524 40.62883 -98.51450 210.0 7.0 66004
20070707132624 40.62800 -98.51867 276.0 18.0 67199
20070707132824 40.62683 -98.52950 254.0 8.0 69479
20070707132923 40.62750 -98.53483 298.0 20.0 70613
20070707133024 40.62783 -98.53933 229.0 14.0 71722
20070707133124 40.62383 -98.54067 206.0 18.0 72808
20070707133224 40.61717 -98.54183 208.0 18.0 73937
20070707133328 40.61450 -98.54833 256.0 18.0 75105
20070707133423 40.61333 -98.55283 237.0 14.0 76178
20070707133624 40.60917 -98.56317 270.0 24.0 78311
20070707133724 40.60783 -98.56883 252.0 25.0 79404
20070707133824 40.60683 -98.57700 277.0 19.0 80547
20070707133923 40.60800 -98.58517 276.0 15.0 81722
20070707134024 40.60867 -98.59117 245.0 11.0 82815
20070707134124 40.60733 -98.59667 253.0 26.0 83914
20070707134223 40.60750 -98.60450 268.0 25.0 84997
20070707134323 40.60783 -98.61533 297.0 28.0 86090
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20070707134424 40.60983 -98.62367 276.0 16.0 87241
20070707134623 40.61067 -98.64217 294.0 31.0 89561
20070707134724 40.61083 -98.65217 255.0 37.0 90859
20070707134824 40.61017 -98.66433 258.0 26.0 92155
20070707134924 40.60833 -98.67483 228.0 19.0 93314
20070707135024 40.60450 -98.68317 234.0 29.0 94367
20070707135123 40.60217 -98.69283 263.0 28.0 95374
20070707135224 40.60117 -98.70117 250.0 28.0 96464
20070707135323 40.59933 -98.70950 266.0 27.0 97655
20070707135424 40.60150 -98.71917 279.0 22.0 99003
20070707135524 40.60267 -98.72517 260.0 13.0 100380
20070707135624 40.59933 -98.73117 217.0 28.0 101762
20070707135724 40.59183 -98.74083 240.0 38.0 103071
20070707135824 40.58550 -98.75383 248.0 50.0 104301
20070707135923 40.58300 -98.76933 260.0 37.0 105479
20070707140023 40.58400 -98.78317 282.0 43.0 106703
20070707140123 40.58500 -98.79583 255.0 36.0 108055
20070707140223 40.58500 -98.80817 269.0 25.0 109420
20070707140323 40.58350 -98.82050 244.0 29.0 110689
20070707141023 40.57783 -98.87083 217.0 18.0 61430
20070707141123 40.57483 -98.87233 220.0 13.0 57481
20070707141224 40.56917 -98.87500 190.0 18.0 53783
20070707141323 40.56517 -98.87667 214.0 15.0 50498
20070707141424 40.56283 -98.87900 248.0 14.0 47395
20070707141524 40.55983 -98.88250 244.0 23.0 44587
20070707141624 40.55600 -98.89050 241.0 34.0 41952
20070707141724 40.55150 -98.89833 227.0 28.0 39456
20070707141824 40.54817 -98.90433 233.0 24.0 37071
20070707141924 40.54517 -98.91050 217.0 19.0 34797
20070707142023 40.54200 -98.91617 247.0 19.0 32670
20070707142124 40.54067 -98.92083 264.0 12.0 30590
20070707142223 40.54017 -98.92567 252.0 14.0 28587
20070707142324 40.53950 -98.93183 253.0 14.0 26605
20070707142424 40.53917 -98.93867 272.0 23.0 24718
20070707142524 40.53883 -98.94383 285.0 12.0 22874
20070707142624 40.53800 -98.94900 230.0 13.0 21069
20070707142724 40.53733 -98.95300 234.0 11.0 19305
20070707142824 40.53700 -98.95600 243.0 12.0 17609
20070707143025 40.53483 -98.95933 310.0 4.0 14419
20070707143124 40.53483 -98.95683 106.0 14.0 12923
20070707143224 40.53583 -98.95217 64.0 16.0 11473
20070707143324 40.53650 -98.94850 112.0 4.0 10006
20070707143630 40.53850 -98.93967 112.0 8.0 5699

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time(UTC) lat lon course speed altitude
20070707122353 40.77583 -98.33500 123.0 28.0 5557
20070707122452 40.77400 -98.32983 125.0 17.0 6387
20070707122552 40.77367 -98.32483 109.0 11.0 7237
20070707122652 40.77383 -98.31950 104.0 7.0 8037
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20070707122852 40.77467 -98.30733 63.0 25.0 9622
20070707122952 40.77467 -98.30067 79.0 18.0 10566
20070707123052 40.77583 -98.29583 60.0 20.0 11449
20070707123153 40.77767 -98.29200 58.0 10.0 12305
20070707123252 40.77883 -98.28933 37.0 15.0 13158
20070707123353 40.78000 -98.28683 76.0 9.0 13991
20070707123452 40.78000 -98.28617 232.0 4.0 14887
20070707123555 40.77950 -98.28617 152.0 7.0 15845
20070707124154 40.77517 -98.31183 243.0 20.0 21737
20070707124552 40.77383 -98.33733 260.0 18.0 25661
20070707124752 40.77100 -98.35200 246.0 23.0 27616
20070707124853 40.76983 -98.35867 243.0 22.0 28594
20070707124952 40.76950 -98.36333 280.0 14.0 29604
20070707125052 40.76850 -98.36900 250.0 22.0 30578
20070707125153 40.76783 -98.37433 235.0 11.0 31605
20070707125252 40.76617 -98.37933 226.0 17.0 32589
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20070707130652 40.69383 -98.46967 232.0 21.0 46001
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20070707130952 40.68433 -98.48667 208.0 22.0 49065
20070707131052 40.68067 -98.49117 235.0 13.0 50151
20070707131152 40.67700 -98.49467 170.0 9.0 51263
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20070707131352 40.67333 -98.48800 151.0 27.0 53421
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20070707131852 40.65317 -98.49083 214.0 22.0 58841
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20070707132152 40.63800 -98.49717 174.0 19.0 61984
20070707132252 40.63267 -98.50167 269.0 14.0 63070
20070707132352 40.63167 -98.50683 164.0 5.0 64225
20070707132552 40.62833 -98.51700 266.0 25.0 66560
20070707132652 40.62750 -98.52233 317.0 16.0 67761
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20070707132852 40.62717 -98.53183 302.0 14.0 70058
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20070707133452 40.61250 -98.55533 224.0 12.0 76724
20070707133604 40.60967 -98.55950 223.0 14.0 77777
20070707133652 40.60833 -98.56650 250.0 15.0 78827
20070707133752 40.60667 -98.57250 279.0 28.0 79936
20070707133853 40.60783 -98.58183 285.0 22.0 81140
20070707133952 40.60850 -98.58883 285.0 27.0 82265
20070707134054 40.60850 -98.59317 232.0 2.0 83324
20070707134153 40.60750 -98.60083 288.0 20.0 84433
20070707134252 40.60733 -98.61017 281.0 31.0 85516
20070707134352 40.60917 -98.62017 316.0 25.0 86638
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20070707134654 40.61117 -98.64700 264.0 25.0 90178
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20070707134952 40.60633 -98.67883 221.0 27.0 93813
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20070707135352 40.60033 -98.71500 286.0 24.0 98281
20070707135452 40.60233 -98.72267 272.0 17.0 99646
20070707135552 40.60133 -98.72817 232.0 23.0 101027
20070707135653 40.59600 -98.73567 222.0 39.0 102418
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20070707135952 40.58350 -98.77717 275.0 33.0 106072
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20070707140152 40.58500 -98.80300 271.0 38.0 108733
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20070707142252 40.54000 -98.92850 256.0 15.0 27537
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20070707142452 40.53917 -98.94167 271.0 15.0 23755
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20070707142952 40.53517 -98.95917 209.0 3.0 15156
20070707143152 40.53533 -98.95433 69.0 12.0 12158
20070707143252 40.53633 -98.95017 83.0 11.0 10727
20070707143452 40.53750 -98.94383 65.0 10.0 7761
20070707143559 40.53833 -98.94100 62.0 7.0 6354
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W0NSV-11

time(UTC) lat lon course speed altitude
20070707114104 40.78200 -98.36983 66.0 27.0 2660
20070707114204 40.78217 -98.35800 92.0 44.0 3592
20070707114304 40.78050 -98.34483 100.0 33.0 4550
20070707114404 40.77800 -98.33533 123.0 27.0 5557
20070707114504 40.77583 -98.32917 119.0 13.0 6561
20070707114604 40.77550 -98.32333 71.0 16.0 7693
20070707114705 40.77600 -98.31783 97.0 19.0 8739
20070707114804 40.77667 -98.31200 64.0 19.0 9779
20070707114904 40.77750 -98.30650 71.0 13.0 10753
20070707115005 40.77817 -98.30200 80.0 13.0 11679
20070707115104 40.78017 -98.29983 355.0 6.0 12614
20070707115204 40.78217 -98.29833 69.0 9.0 13562
20070707115304 40.78200 -98.29783 219.0 5.0 14582
20070707115404 40.78067 -98.29783 176.0 12.0 15615
20070707115504 40.77933 -98.29883 288.0 5.0 16619
20070707115904 40.77550 -98.31850 246.0 22.0 20848
20070707120005 40.77417 -98.32417 266.0 18.0 21809
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20070707120204 40.77200 -98.33650 264.0 26.0 23830
20070707120304 40.77200 -98.34400 269.0 28.0 24860
20070707120404 40.77100 -98.35167 254.0 27.0 25812
20070707120504 40.76900 -98.36000 246.0 20.0 26852
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20070707120704 40.76583 -98.37467 245.0 17.0 28856
20070707120804 40.76450 -98.38117 252.0 24.0 29870
20070707120905 40.76367 -98.38717 245.0 19.0 30959
20070707121004 40.76200 -98.39317 255.0 21.0 31940
20070707121104 40.75950 -98.39900 239.0 22.0 32917
20070707121304 40.75100 -98.40917 225.0 31.0 34896
20070707121404 40.74650 -98.41467 224.0 25.0 35867
20070707121504 40.74267 -98.42033 247.0 14.0 36907
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20070707121704 40.73383 -98.43100 211.0 23.0 38800
20070707121804 40.72733 -98.43717 204.0 29.0 39748
20070707121904 40.72017 -98.44350 210.0 30.0 40689
20070707122004 40.71233 -98.44900 206.0 40.0 41631
20070707122104 40.70433 -98.45617 216.0 36.0 42661
20070707122204 40.69717 -98.46433 216.0 28.0 43642
20070707122304 40.69100 -98.47300 244.0 30.0 44646
20070707122404 40.68567 -98.47917 225.0 18.0 45620
20070707122504 40.68200 -98.48400 214.0 17.0 46542
20070707122604 40.67833 -98.49033 244.0 23.0 47359
20070707122704 40.67467 -98.49683 221.0 24.0 48307
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20070707122904 40.66750 -98.50817 223.0 23.0 50167
20070707123004 40.66350 -98.51233 197.0 24.0 51059
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20070707123204 40.66133 -98.51117 132.0 18.0 52946

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20070707123304 40.65900 -98.50717 149.0 17.0 53894
20070707123404 40.65433 -98.50317 145.0 25.0 54868
20070707123504 40.64917 -98.50250 209.0 15.0 55777
20070707123604 40.64467 -98.50150 182.0 20.0 56686
20070707123704 40.63983 -98.50350 224.0 13.0 57624
20070707123804 40.63767 -98.50767 201.0 16.0 58539
20070707123906 40.63500 -98
(Message over 64 KB, truncated)
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3441. Re: [GPSL] WB8ELK unable to attend GPSL 2007

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 01:00:38 UTC
From: Mike Manes
Topic: 3422 Message: 3441

Great presentation, Bill! Sorry you weren't able to join us at the launch - Roger picked a GREAT alternative site on short notice. Great conference to boot. BZ to Roger for having done a bang-up job making the biggest ever GPSL a rousing success!

EOSS-119 did get off, despite its abysmally incompetent 3rd string balloonmeister's demonstration of terminal clumsiness. We worked 2 stations out of Russel KS 59 on the crossband repeater, hit about 91K' and recovered from yet another corn field, despite the obstinate refusal of EOSS's Chieftain of Corn Recovery's refusal to grace us with his inestimable experience. There was some whitening of knuckles as the descending payload string casually drifted down about 200 yards from some 500 KV power lines. Farmer John was delighted with opportunity to depart from his daily routine to carry Steve 'SCC out to the landing site on his ATV, where we once again retained our tenuous grasp on our 100% recovery rate.

Glad to hear that you've rounded up some folks to help you celebrate your 20th anniversary flight, and hope that your pitch will pull in a few more. Sorry to say that all of EOSS's kitchen passes for out-of-state flights got spend this last weekend.

73 de Mike W5VSI, EOSS

wb8elk@... wrote:
> Still under the weather here so won't be able to make the drive to
> GPSL2007...I will try to give a talk via the internet on Friday if the
> hotel wireless internet works.
>
> - Bill WB8ELK
>
>
>
>
>
> ---
> See what's free at AOL.com <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3442. Re: [GPSL] Nice to meet everyone

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 03:41:16 UTC
From: Mike Manes
Topic: 3427 Message: 3442

Hey Brek,

It was great meeting you and Angie, and congratulations on a picture-perfect first flight and recovery! A lot of us went thru the same kind of tribulations early on that Bill Brown unabashedly disclosed in his presentation on Friday afternoon.

BTW, could you post a link to some of the photos your payloads shot?

Hope you had a pleasant trip back to Chadron, and good luck with continued successful flights!

73 de Mike W5VSI

Brek Brixius wrote:
> It was nice to meet everyone tonight. My wife (Angie) and I are looking
> forward to learning a lot and having a lot fun at GPSL the next couple
> of days.
>
> BTW, I figured out my blunder on the predicts. I missed the drop down
> menu on the second page of online balloon track where you select the
> launch time. My predicts were all for whatever moment I ran them. I
> think I have it now.
>
> 73
>
> Brek - KC0YOE
>
>
> ---
> Choose the right car based on your needs. Check out Yahoo! Autos new Car
> Finder tool.
> <http://us.rd.yahoo.com/evt=48518/*http://autos.yahoo.com/carfinder/;_ylc=X3oDMTE3NWsyMD
d2BF9TAzk3MTA3MDc2BHNlYwNtYWlsdGFncwRzbGsDY2FyLWZpbmRlcg--
> >

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3443. Re: [GPSL] Thanks Everyone!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 04:52:41 UTC
From: Mike Manes
Topic: 3438 Message: 3443

Brek Brixius wrote:
> Angie and I are delighted with the results of our first flight
> (BUNS-1). I have tons of pictures to process and the Barro Switch
> cutdown gave us a clean separation very near our target of 80,000 ft.
>
> We were able to track our modules all the way to the ground on APRS and
> then pick it out of the corn field by homing in on the CW beacon.
>
> We didn't set any altitude records or take the clearest pictures that
> have ever been taken in ARHAB but we did satisfy our objectives and had
> a really great time in the process.
>
> It was wonderful to put some faces with the names we have seen here in
> the yahoo GPSL group. It was also great to see what other groups were
> doing with their projects and then be able to see how things came out at
> the post flight gathering.
>
> Thanks everyone! We couldn't have done it without you.

But I'm sure that you'll do just fine on BUNS-2, -3, -4 ...

73 de Mike W5VSI, EOSS
>
> 73 - Brek - KC0YOE
>
>
> ---
> Be a better Globetrotter. Get better travel answers
> <http://us.rd.yahoo.com/evt=48254/*http://answers.yahoo.com/dir/_ylc=X3oDMTI5MGx2aThyBF9
TAzIxMTU1MDAzNTIEX3MDMzk2NTQ1MTAzBHNlYwNCQUJwaWxsYXJfTklfMzYwBHNsawNQcm9kdWN0X3F1ZXN0aW9uX
3BhZ2U-?link=list&sid=396545469>from
> someone who knows.
> Yahoo! Answers - Check it out.

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3444. Aprsworld

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 04:08:26 UTC
From: wb8elk@aol.com
Topic: 3444 Message: 3444

_http://maps.aprsworld.net/map/track.phtml?call=KC5TRB-11&skipTable=0&skipBogu
sCheck=0&showRawPackets=1&start_year=2007&start_month=7&start_day=6&start_hour
=4&start_minute=6&end_year=2008&end_month=1&end_day=1&end_hour=0&end_minute=0&
end_now=1&date_search=1_
(http://maps.aprsworld.net/map/track.phtml?call=KC5TRB-11&skipTable=0&skipBogusCheck=0&sho
wRawPackets=1&start_year=2007&start_month
=7&start_day=6&start_hour=4&start_minute=6&end_year=2008&end_month=1&end_day=1
&end_hour=0&end_minute=0&end_now=1&date_search=1)

********** See what's free at http://www.aol.com.

3445. Re: [GPSL] GPSL07 FindU FLight Data

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 05:00:00 UTC
From: Harry M
Topic: 3440 Message: 3445

Here's one I missed.

KD4STH
time(UTC) lat lon course speed altitude
20070707113945 40.77917 -98.37567 108.0 0.0 1948
20070707114045 40.78117 -98.37050 80.0 36.0 2870
20070707114145 40.78050 -98.35733 97.0 37.0 4304
20070707114245 40.77783 -98.34817 129.0 19.0 5705
20070707114345 40.77600 -98.34167 82.0 18.0 7132
20070707114445 40.77650 -98.33533 87.0 22.0 8565
20070707114546 40.77750 -98.32933 54.0 18.0 9982
20070707114645 40.77833 -98.32400 94.0 15.0 11390
20070707114745 40.78017 -98.32233 54.0 2.0 12804
20070707114845 40.78150 -98.32150 202.0 1.0 14277
20070707114945 40.78050 -98.32167 27.0 2.0 15737
20070707115019 40.78050 -98.32167 27.0 2.0 15737
20070707115045 40.77900 -98.32367 221.0 19.0 17193
20070707115145 40.77800 -98.32767 259.0 13.0 18611
20070707115245 40.77717 -98.33300 237.0 15.0 20002
20070707115345 40.77600 -98.33917 251.0 13.0 21409
20070707115446 40.77400 -98.34517 248.0 14.0 22875
20070707115509 40.77600 -98.33917 251.0 13.0 21409
20070707115545 40.77317 -98.35167 245.0 15.0 24250
20070707115645 40.77150 -98.35983 236.0 20.0 25664
20070707115745 40.76917 -98.36833 260.0 19.0 27078
20070707115845 40.76733 -98.37667 256.0 29.0 28528
20070707115945 40.76567 -98.38300 230.0 24.0 29830
20070707120045 40.76450 -98.38933 243.0 25.0 31267
20070707120145 40.76217 -98.39533 248.0 27.0 32580
20070707120226 40.76217 -98.39533 248.0 27.0 32580
20070707120245 40.75833 -98.40117 220.0 14.0 33905
20070707120345 40.75333 -98.40617 243.0 21.0 35142
20070707120359 40.75833 -98.40117 220.0 14.0 33905
20070707120445 40.74950 -98.41217 211.0 25.0 36444
20070707120545 40.74517 -98.41767 244.0 20.0 37891
20070707120645 40.73933 -98.42233 228.0 25.0 39223
20070707120745 40.73300 -98.42767 204.0 38.0 40450
20070707120845 40.72500 -98.43367 225.0 28.0 41857
20070707120945 40.71783 -98.44033 230.0 34.0 43055
20070707121045 40.71083 -98.44900 210.0 21.0 44387
20070707121145 40.70533 -98.45500 236.0 10.0 45604
20070707121238 40.70533 -98.45500 236.0 10.0 45604
20070707121245 40.70183 -98.45900 224.0 18.0 46785
20070707121345 40.69850 -98.46450 264.0 22.0 48336
20070707121445 40.69633 -98.47100 229.0 19.0 49570

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20070707121545 40.69250 -98.47617 216.0 17.0 50977
20070707121645 40.69033 -98.47717 4.0 9.0 52313
20070707121745 40.69000 -98.47417 91.0 11.0 53582
20070707121827 40.69000 -98.47417 91.0 11.0 53582
20070707121845 40.68600 -98.47117 146.0 19.0 54855
20070707121945 40.68167 -98.46983 195.0 13.0 56069
20070707122045 40.67633 -98.47017 187.0 13.0 57470
20070707122145 40.67417 -98.47367 239.0 13.0 58575
20070707122245 40.67150 -98.47467 189.0 10.0 59730
20070707122324 40.67150 -98.47467 189.0 10.0 59730
20070707122345 40.66717 -98.47583 187.0 21.0 60901
20070707122445 40.66150 -98.47700 193.0 18.0 61954
20070707122527 40.66150 -98.47700 193.0 18.0 61954
20070707122545 40.65500 -98.48117 227.0 21.0 63021
20070707122645 40.65150 -98.48683 237.0 20.0 64110
20070707122730 40.65150 -98.48683 237.0 20.0 64110
20070707122745 40.64867 -98.49167 244.0 16.0 65248
20070707122845 40.64617 -98.49867 251.0 16.0 66413
20070707122924 40.64617 -98.49867 251.0 16.0 66413
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20070707123045 40.64417 -98.51083 267.0 20.0 68673
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20070707123245 40.64550 -98.52400 309.0 25.0 70730
20070707123345 40.64567 -98.52967 210.0 11.0 71921
20070707123445 40.64133 -98.52983 179.0 25.0 73066
20070707123545 40.63700 -98.53317 233.0 20.0 74276
20070707123645 40.63583 -98.53783 254.0 9.0 75497
20070707123745 40.63467 -98.54183 196.0 10.0 76681
20070707123747 40.63583 -98.53783 254.0 9.0 75497
20070707123845 40.63217 -98.54667 262.0 17.0 77888
20070707123920 40.63217 -98.54667 262.0 17.0 77888
20070707123945 40.62967 -98.55183 251.0 19.0 79033
20070707124045 40.62717 -98.56017 271.0 37.0 80247
20070707124145 40.62833 -98.56883 264.0 25.0 81559
20070707124245 40.63050 -98.57667 307.0 14.0 82839
20070707124345 40.63133 -98.58217 264.0 15.0 84027
20070707124445 40.63117 -98.59067 263.0 26.0 85188
20070707124545 40.63067 -98.60083 264.0 37.0 86359
20070707124633 40.63067 -98.60083 264.0 37.0 86359
20070707124643 40.63117 -98.59067 263.0 26.0 85188
20070707124645 40.63150 -98.61117 277.0 20.0 87527
20070707124745 40.63033 -98.62117 279.0 32.0 86884
20070707124817 40.63033 -98.62117 279.0 32.0 86884
20070707124823 40.63067 -98.60083 264.0 37.0 86359
20070707124845 40.63017 -98.62933 261.0 30.0 80930
20070707124859 40.63067 -98.60083 264.0 37.0 86359
20070707124925 40.63017 -98.62933 261.0 30.0 80930
20070707124945 40.62833 -98.63517 269.0 8.0 75900
20070707125030 40.62833 -98.63517 269.0 8.0 75900
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20070707125345 40.61650 -98.65317 248.0 14.0 59812
20070707125445 40.61333 -98.65533 178.0 25.0 56489
20070707125525 40.61333 -98.65533 178.0 25.0 56489
20070707125545 40.60883 -98.65383 141.0 28.0 53648
20070707125645 40.60650 -98.65183 154.0 11.0 51125
20070707125745 40.60350 -98.65617 215.0 10.0 48727
20070707125845 40.59983 -98.66067 210.0 24.0 46575
20070707125945 40.59600 -98.66617 224.0 34.0 44003
20070707130045 40.58967 -98.67433 216.0 42.0 41887
20070707130145 40.58267 -98.68117 230.0 32.0 39945
20070707130245 40.57617 -98.68733 199.0 28.0 38121
20070707130345 40.57117 -98.69400 233.0 32.0 36388
20070707130445 40.56733 -98.70100 245.0 21.0 34669
20070707130545 40.56333 -98.70733 246.0 12.0 32963
20070707130645 40.56150 -98.71350 234.0 19.0 31333
20070707130745 40.56033 -98.72017 279.0 19.0 29840
20070707130845 40.56000 -98.72733 267.0 13.0 28305
20070707130945 40.55883 -98.73533 243.0 22.0 26822
20070707131045 40.55817 -98.74400 247.0 19.0 25362
20070707131145 40.55850 -98.75167 265.0 24.0 23922
20070707131245 40.55850 -98.75850 252.0 25.0 22518
20070707131345 40.55800 -98.76500 241.0 8.0 21147
20070707131446 40.55767 -98.77017 290.0 18.0 19831
20070707131546 40.55783 -98.77417 252.0 2.0 18545
20070707131645 40.55683 -98.77733 187.0 2.0 17285
20070707131745 40.55567 -98.77850 147.0 10.0 16052
20070707131845 40.55433 -98.77817 189.0 8.0 14818
20070707131926 40.55433 -98.77817 189.0 8.0 14818
20070707131945 40.55467 -98.77567 81.0 20.0 13539
20070707132029 40.55467 -98.77567 81.0 20.0 13539
20070707132045 40.55533 -98.76983 45.0 16.0 12308
20070707132146 40.55600 -98.76533 110.0 15.0 11164
20070707132245 40.55683 -98.76083 74.0 18.0 10045
20070707132445 40.55767 -98.75317 109.0 6.0 7863
20070707132545 40.55783 -98.74917 139.0 8.0 6800
20070707132645 40.55717 -98.74533 112.0 15.0 5767
20070707132745 40.55633 -98.74167 86.0 21.0 4697
20070707132845 40.55517 -98.73200 104.0 33.0 3677
20070707132945 40.55533 -98.72200 54.0 23.0 2663
```

3446. Pictures from BUNS-1

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 05:28:42 UTC
From: Brek Brixius
Topic: 3446 Message: 3446

I have created an album in the yahoo GPSL group and posted a few of the pictures we took.

I think all members of the group should be able to access the pictures. If not, let me know.

Most of the ones I posted are from the camera carried on EOSS-119. That camera was a 1.3 megapixel digital mounted upside down (intentionally to allow easy access to the SD card). Most of the pictures look very light (sort of overexposed). I am going through and cherry picking some shots, rotating them back to right side up and adjusting the color as best I can.

There is also one picture from the 3.1 megapixel camera carried on BUNS-1.

They probably won't win any awards but they do give an idea what it looks like from the flights.

I hope folks enjoy them.

73
Brek - KC0YOE

Choose the right car based on your needs. Check out Yahoo! Autos new Car Finder tool.

3447. K0NMS-11 Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 11:52:42 UTC
From: Nicholas Stich
Topic: 3446 Message: 3447

This is based on the data from Rino memory....

Distance Balloon Traveled = 68.2 miles
Time of Flight (aloft) = 3 hrs 20 min
Average Speed of Balloon = 21 mph
Maximum Altitude (by Rino) = 89,727 ft
Time to Max Altitude = 2 hrs 39 min
Avg. Rate of Ascent = 552 fpm
Time of Descent = 41 min
Avg. Rate of Descent = 2134 fpm

Maximum Speed on Ascent = 48mph at 3,717 feet
Maximum Speed on Descent = 37 mph at 41,877 feet

We had an ascent rate of right at 1,000 fpm to about 14,000 ft and
then it dropped to 450 fpm and stayed flat till burst.

The K0NMS Group wants to express our thanks for a great job that was
done by Roger and CNNSP.

THANK YOU !!

Later - Nick
KØNMS
WPWG368

3448. Re: [GPSL] Chase recap?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 16:13:20 UTC
From: BASE
Topic: 3439 Message: 3448

BASE 8 was a very good flight. The preliminary data analysis presented by the students indicates that we were successful. Some of the basic information is on our website at:

http://www.depauw.edu/acad/physics/base/pages/base8.asp

Let me apologize to all for not having APRS for the flight. Thanks to the door prizes, I should have two units available for the next GPSL. We did not intend to fly incognito.

The launch was hampered by an inconsistent control pod, and our average ascent rate of 810 ft/min was twice our target. We did reach a new record elevation above sea level for BASE - 97,700 feet.

The flaky brain stopped sending GPS data at 28,000 feet , but we still had good solar cell data and confirmed the landing at 14:50 UTC.

We located the system using the advice of Mark Conner from Friday's briefing that the landing point would be at the location directly below where the balloon was at 30,000 foot on descent AND a little bit of directional finding with our ground based (mobile for this flight) radio.

The 2007 GPSL was a wonderful event, and we look forward to working with you (and tracking together) as the years go by.

Thanks again to all for the assistance.

Howard

P.S. - We are planning to fly on Wednesday or Thursday, after the storms roll through here.

No need to miss a message. Get email on-the-go
with Yahoo! Mail for Mobile. Get started.
http://mobile.yahoo.com/mail

3449. GPSL ORB Recap

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 18:31:43 UTC
From: Harry M
Topic: 3449 Message: 3449

GPSL-2007 was a huge success!
Thanks to Roger & CNNSP for a great job putting it together!

I left Tulsa at 6 am Thursday and arrived in Grand Island at at 1 pm. Thursday night those of us who were in town met and had dinner. The Saturday seminars were very informative and there were 50-60 in attendance. Friday night we all met for dinner and the rest of the night was spent running predictions and prepping equipment for the flight. Surface winds were predicted to be in excess of 10 mph Saturday morning so Roger had scoped out a launch site in Doniphan about 10 miles south of Grand Prairie. This proved to be an excellent site.

Saturday morning I arrived at the launch site at 5 am. Thanks to Professor Flaten I had the help of two University of Minnesota students, Karla & John. We launched ORB-22 at 06:58. Another University of Minnesota student, Derik, volunteered to be my driver on the chase with Professor Flaten and the rest of the students chasing in their car. Derik & I took up a position about 8 miles west of Hastings on Hwy-6 where the Taylor University tracking team also happened to be. ORB-22 burst at 08:05 @ approx. 79,000 feet. We spotted it at 3,000 feet on the descent and it landed about 1,000 feet from us in a bean field at 08:31. We obtained permission to enter the field and ORB-22 was recovered about 30 minutes after landing. The horizontal camera was set in lo-res mode (640x480) because of an internal problem and took 57 pics on a 2 minute interval. The vertical camera was set in hi-res mode (1248x960) and captured 26 pics on a 4.5 minute interval.

ORB-22 landed 10 miles NE of the EOSS landing site so I went there to see if I could be of any assistance. They were waiting for the land owner and one of their group to return from the field with their payloads. On a recommendation from the land owner we ate lunch in Hastings at the Bullseye's Sports Grill, then headed back to Grand Island.

The EOSS group and myself spent over an hour trying to DF the EOSRED balloon which failed to send position data right after launch. As it turned out what we were DFing was their car with a balloon icon. We disengaged and returned to the motel.

This year it was decided to have a post flight meeting which was a great idea. Flight overviews were presented by each group. Saturday evening we all gathered for dinner and a good time of socializing was had by all.

Sunday morning I left for Tulsa at 7 am and arrived home 2 pm.

I enjoyed visiting with old friends and meeting new ones.
Thanks to all who were there and a big thanks to Roger and CNNSP for making it happen!

An observation that Roger and I talked about was that there was a real sense of camaraderie this year, more so than in the past. Everyone seemed to be very at ease. I think that as each year passes we have developed a friendship that shows more and more and it is very contagious. Individuals and groups that attend for the first time see this and immediately feel like they are a part of it. A seed was planted and has grown into a beautiful gathering. I hope this continues for decades to come. Thanks to all of you for nurturing the seed! God Bless!

Looking forward to GPSL 2008!

73 Harry KC5TRB

Here is the beacon with the official ORB-21 landing coordinates...
KC5TRB-11>APT310,APRS:/133129h4033.87N/09837.57WO115/000/A=002024

I will be uploading a short video of the ORB-22 landing.
It will be in the ORB Yahoo Group "FILES" section.
http://groups.yahoo.com/group/oklahoma_research_balloons/

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3450. 144.39 log from the launch site?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 20:32:38 UTC
From: mconner1@gmail.com
Topic: 3450 Message: 3450

Did anyone at the launch site record a TNC log of data on 144.39? If so, please forward it. Thanks!

73 de Mark N9XTN

3451. Fw: SDG-5 is aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 21:29:06 UTC
From: Ralph Wallio, W0RPK
Topic: 3451 Message: 3451

----- Original Message -----
From: "Robert Rochte" <rochte@...>
To: "Pierre Thomson" <PierreThomson@...>; "WB8ELK@..." <wb8elk@...>; "Ralph Wallio, W0RPK" <w0rpk@...>
Sent: Monday, July 09, 2007 4:03 PM
Subject: SDG-5 is aloft

Soli Deo Gloria Five, an experimental superpressure balloon, is aloft now. The balloon is carrying a CW beacon on 28.636.

Details on the beacon from Pierre Thomson, KA2QPG:

The payload package includes:

* An 8-bit microcontroller (PIC 16C715)
* A barometric altimeter (MPX100A/TL072)
* An outside temperature sensor (DS1721S)
* Battery voltage monitor
* CW Beacon on 28.636 MHz (crystal oscillator)
* Vertically polarized 10m dipole antenna
* Eight AA Li-Fe batteries for 12V @ 2500 mAh

Telemetry frame format (sent every 2 minutes on 28.636 MHz) :

DE KA2QPG BLN M 1434 A 033 T N55 B 8R7V EMAIL PT AT RIFTON.COM AR

where:
M = mission elapsed time in hours and minutes
A = altimeter (absolute pressure [higher # = lower alt], 0 - 255)
T = outside temperature (00 - 99 degrees C, N = negative)
B = battery voltage (0.0 - 9.9 volts)

The remaining time in the 2-minute cycle will have a Morse "dit" every 4 seconds.

3452. KC5TRB 144.340 Log File

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 22:05:18 UTC
From: Harry M
Topic: 3452 Message: 3452
Attachments: 1 described; binary payloads are missing from this source WARC

Attached is my 144.340 RAW log file from my mobile.
I would appreciate other logs from .340 to fill in a few holes.

Thanks!
73 Harry KC5TRB

3453. Canon Powershot A300/A310 comments?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 22:11:39 UTC
From: mconner1@gmail.com
Topic: 3453 Message: 3453

In looking over a few camera listings on eBay, I see that the Canon Powershot A300 and A310 have a pretty good feature set for a balloon payload camera and were well reviewed when introduced in 2003 and 2004 respectively. Anyone on the list have comments, good or bad, on these cameras whether in 'normal' or balloon use? Better yet, if someone has one they'd like to sell let me know.

If they're easily modifiable, either should be a nice replacement for my Concord 4060.

73 de Mark N9XTN

3454. ORB Web Site Updated

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 22:18:40 UTC
From: Harry M
Topic: 3454 Message: 3454

I have updated the ORB web site with data and pics from the ORB-22 GPSL flight.

http://members.cox.net/hhm_74775/orb/

73 Harry

3455. Re: [GPSL] Fw: SDG-5 is aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-09 23:47:21 UTC
From: David
Topic: 3451 Message: 3455

Hi Ralph, great to hear of the groups success. This cw beacon on 28.636, where and when was it launched? From the call KA2QPG it could be in the NY area and I may be able to chase it.

tnx es 73

David ve3bbn
----- Original Message -----
From: Ralph Wallio, W0RPK
To: GPSL ; Balloons-Rockets ; Balloon_Sked
Sent: Monday, July 09, 2007 5:29 PM
Subject: [GPSL] Fw: SDG-5 is aloft

----- Original Message -----
From: "Robert Rochte" <rochte@...>
To: "Pierre Thomson" <PierreThomson@...>; "WB8ELK@..." <wb8elk@...>; "Ralph Wallio, W0RPK" <w0rpk@...>
Sent: Monday, July 09, 2007 4:03 PM
Subject: SDG-5 is aloft

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Details on the beacon from Pierre Thomson, KA2QPG:

The payload package includes:

* An 8-bit microcontroller (PIC 16C715)
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Telemetry frame format (sent every 2 minutes on 28.636 MHz) :

DE KA2QPG BLN M 1434 A 033 T N55 B 8R7V EMAIL PT AT RIFTON.COM AR

where:
M = mission elapsed time in hours and minutes
A = altimeter (absolute pressure [higher # = lower alt], 0 - 255)
T = outside temperature (00 - 99 degrees C, N = negative)
B = battery voltage (0.0 - 9.9 volts)

The remaining time in the 2-minute cycle will have a Morse "dit" every 4 seconds.

3456. Re: [GPSL] 144.39 log from the launch site?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 01:26:00 UTC
From: PAUL VERHAGE
Topic: 3450 Message: 3456

I'll second that.

Paul

>>> <mconner1@...> 07/09/07 2:32 PM >>>
Did anyone at the launch site record a TNC log of data on 144.39? If so, please forward it. Thanks!

73 de Mark N9XTN

Yahoo! Groups Links

3457. GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 01:32:38 UTC
From: PAUL VERHAGE
Topic: 3457 Message: 3457

For next year's GPSL, both NSV and Taylor have asked to host it. I'm thinking Indiana is a bit far for some people but fine for others. On the other hand, Indiana is good for the east coast (we've had some launch at GPSL in years past).

How does holding two super launches together sound? One would be in KC and the other at Taylor. If so, I'd like to work out an internet connection so we could present at both conferences. Taylor may do a BalloonSat workshop as part of their super launch (can you confirm?). If so, I'd like to do a small BalloonSat work shop for local clubs at the KC super launch.

Please let me know how you feel about two concurrent superlaunches next year.

This also brings to mind that we could make Bill's launch a super launch. Bill?

Paul

3458. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 03:12:40 UTC
From: Gene Harlan
Topic: 3457 Message: 3458

I hope everyone had a great time at GPSL 2007.

Anyone have time for a short overview for ATVQ? Unfortunately, I would need it by Wednesday this week.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, July 09, 2007 8:32 PM
Subject: [GPSL] GPSL 2008

For next year's GPSL, both NSV and Taylor have asked to host it. I'm thinking Indiana is a bit far for some people but fine for others. On the other hand, Indiana is good for the east coast (we've had some launch at GPSL in years past).

How does holding two super launches together sound? One would be in KC and the other at Taylor. If so, I'd like to work out an internet connection so we could present at both conferences. Taylor may do a BalloonSat workshop as part of their super launch (can you confirm?). If so, I'd like to do a small BalloonSat work shop for local clubs at the KC super launch.

Please let me know how you feel about two concurrent superlaunches next year.

This also brings to mind that we could make Bill's launch a super launch. Bill?

Paul

Yahoo! Groups Links

3459. Re: [GPSL] Pictures from BUNS-1

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 03:44:12 UTC
From: Mark Conner
Topic: 3446 Message: 3459

Brek,

Nice job on your first flight! What cameras are you using?

73 de Mark N9XTN

On 7/9/07, Brek Brixius <gofly2007@...> wrote:
>
>
> I have created an album in the yahoo GPSL group and posted a few of the pictures we took.
>
> I think all members of the group should be able to access the pictures. If not, let me know.
>
> Most of the ones I posted are from the camera carried on EOSS-119. That camera was a 1.3 megapixel digital mounted upside down (intentionally to allow easy access to the SD card). Most of the pictures look very light (sort of overexposed). I am going through and cherry picking some shots, rotating them back to right side up and adjusting the color as best I can.
>
> There is also one picture from the 3.1 megapixel camera carried on BUNS-1.
>
> They probably won't win any awards but they do give an idea what it looks like from the flights.
>
> I hope folks enjoy them.
>
> 73
> Brek - KC0YOE

3460. Re: [GPSL] Pictures from BUNS-1

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 03:59:34 UTC
From: Brek Brixius
Topic: 3446 Message: 3460

Thanks Mark:

I was using three 1.3 megapixel Batman Cameras from a long past Walmart clearance sale and a 3.1 megapixel Concord EyeQ 3042 AF that I must have taken about 50,000 pictures on before I decided I had got my money's worth and could risk it on the Balloon. :)

I'm using Gimp to tweak the colors. Hey, NASA enhances their pictures too.

BTW, I posted some more pics to that same album just now.

73 - Brek - KC0YOE

Mark Conner <mconner1@...> wrote:
Brek,

Nice job on your first flight! What cameras are you using?

73 de Mark N9XTN

On 7/9/07, Brek Brixius <gofly2007@...> wrote:
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>
> I have created an album in the yahoo GPSL group and posted a few of the pictures we took.
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> 73
> Brek - KC0YOE

Looking for a deal? Find great prices on flights and hotels with Yahoo! FareChase.

3461. Re: GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 11:51:25 UTC
From: Nicholas Stich
Topic: 3457 Message: 3461

> For next year's GPSL, both NSV and Taylor have asked to host it.
I'm thinking Indiana is a bit far for some people but fine for
others. On the other hand, Indiana is good for the east coast
(we've had some launch at GPSL in years past).

>
> Please let me know how you feel about two concurrent superlaunches
next year.
>

I prefer a single location.

I think this years event was the best that I have attended and I
think it was for these two reasons:
1) The post launch debriefing
2) The Saturday night dinner.

For me this gave me a chance to really meet the people behind the
callsigns, hear about each groups packages, and discuss the day's
events and future projects without the pressure of getting packages
ready for a flight.

I am afraid that having two locations will dilute the quality of
this Event.

3462. Re: [GPSL] Re: GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 12:27:51 UTC
From: BASE
Topic: 3457 Message: 3462

I agree with Nick that the post flight debriefing and meals together provided us with good opportunities to share ideas and experiences.

If we were to hold two superlaunches next year in KC and Upland, Indiana then I imagine that most of the 2007 attendees would opt for KC. The only folks that would have a shorter trip to Indiana would be EOS-RED, Taylor, DePauw, and Bill Brown. The other eight groups are significantly closer to KC.

I enjoyed meeting the rest of you, and would seriously consider going to KC, despite the extra 800 miles of driving, if the NSF workshop at Taylor did not overlap.

I also appreciate the fact that as a University program, most of the BASE travel expenses are supported by our institution. Most of you do not have that luxury.

Perhaps the 2008 Great Plains Superlaunch should be in KC, and on a different weekend from the weekends surrounding the NSF workshop at Taylor. Taylor can certainly attract other ballooning folks (Valpo, Cedarville (new), UT-Knoxville, etc..) for a second superlaunch. I imagine that

I don't think that this is the time to run concurrent events.

Howard

--- Nicholas Stich <NStich@...> wrote:

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>
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> the quality of
> this Event.
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>

Choose the right car based on your needs. Check out Yahoo! Autos new Car Finder tool.
http://autos.yahoo.com/carfinder/

3463. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 14:02:38 UTC
From: mconner1@gmail.com
Topic: 3457 Message: 3463
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3464. Re: GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 14:32:53 UTC
From: rahammond@charter.net
Topic: 3457 Message: 3464

I too agree the post flight briefing was a nice addition to this year's GPSL. I credit the EOSS group for coming up with that one and making the arrangments. Thank you Nick and the gang. I hope, as others have stated, it becomes a regular part of GPSL. It gives everyone an opportunity to share their experiences in an informal environment.

I'm not in favor of splitting GPSL into two concurrent locations. I think the more groups you can assemble at one location on an annual basis, the better. It gives us all a chance to become better friends and learn from each other.

On a personal note if GPSL were held in Indiana next year, Arlene and I would not likely be able to attend, due to her limited vacation time at her relatively new employment.

Thanks again for everyone that participated in GPSL 2007 and made it a success!

73,

Roger KCØMWM
www.cnnsp.org

---- BASE <basedepauw@yahoo.com> wrote:
> I agree with Nick that the post flight debriefing and
> meals together provided us with good opportunities to
> share ideas and experiences.
>
> If we were to hold two superlaunches next year in KC
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> I don't think that this is the time to run concurrent
> events.
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> Howard
>
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> > I am afraid that having two locations will dilute
> > the quality of
> > this Event.
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> >
>
>
>
>
> _____
> Choose the right car based on your needs. Check out Yahoo! Autos new Car Finder tool.
> http://autos.yahoo.com/carfinder/

3465. Re: [GPSL] Re: GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 15:18:41 UTC
From: mconner1@gmail.com
Topic: 3457 Message: 3465
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3466. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 15:40:02 UTC
From: Harry M
Topic: 3457 Message: 3466

I am in favor of only one GPSL in the Plains states.

It would be great to see super launches such as a MWSL
or WCSL or ECSL to supporting ARHAB.

73 Harry KC5TRB

3467. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 18:34:00 UTC
From: PAUL VERHAGE
Topic: 3457 Message: 3467

Well, I think I've heard enough. We'll have GPSL 2008 in KC. Can Taylor take on a MWSL on a different date? What days is your workshop?

NSV, can yoou confirm that you can do GPSL? Do you have a date in mind? I'll try to stay for the Saturday dinner. It sunds like it went well.

Paul

PS, Mark, do you have an extra shirt?

>>> "Harry M" <hhm_74115@...> 07/10/07 9:40 AM >>>

I am in favor of only one GPSL in the Plains states.

It would be great to see super launches such as a MWSL
or WCSL or ECSL to supporting ARHAB.

73 Harry KC5TRB

3468. NSTAR 07-A max altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 18:35:46 UTC
From: mconner1@gmail.com
Topic: 3468 Message: 3468
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3469. Re: Accelerometer and Ascent Rate

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 18:36:19 UTC
From: PAUL VERHAGE
Topic: 3469 Message: 3469
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3470. Re: [GPSL] NSTAR 07-A max altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 18:44:53 UTC
From: PAUL VERHAGE
Topic: 3468 Message: 3470

Sounds like we need to send the last BASIC Stamp to NSTAR.

Congrats.

Paul

>>> <mconner1@...> 07/10/07 12:35 PM >>>
Reviewing the logged data, we recorded on the payload a maximum altitude of 110,915 ft at 14:03:32 UTC. This was about 13 seconds after the highest APRS beacon at 110,689 ft.

Our landing site was 40 deg 32.37' N, 98 deg 55.36'W at 14:39:15 UTC. Launch time was 12:19:04 UTC from 40 deg 46.75' N, 98 deg 22.52' W, for a total time in the air of 2h 40m 11s.

The interesting thing with our ascent rate data was that it did not show the typical slowdown around 40,000' that was discussed in one of Friday's briefings. Attached is a chart showing our altitude and ascent rate data. It starts off around 750 ft/min and slowly increases to around 1250 ft/min near burst.

73 de Mark N9XTN

Yahoo! Groups Links

3471. Re: NSTAR 07-A max altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 19:48:47 UTC
From: Harry M
Topic: 3468 Message: 3471

> The interesting thing with our ascent rate data was that it did not show
> the
> typical slowdown around 40,000'...

Here is the data for ORB.
As you can see the slow down started around 55k.

ALT FPM
50508 1017
51791 1283
53028 1237
54189 1161
55213 1024
56197 984
57073 876
57991 918
58903 912
59760 857
60685 925

---

73 Harry

3472. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 20:14:31 UTC
From: wb8elk@aol.com
Topic: 3457 Message: 3472

The KC location is great with me as that is only a day's drive from Huntsville AL and even closer still to the TN, KY and midwest groups....660 miles from here.

Although IN is only 440 miles from here, I think it should be called a Midwest Superlaunch and I would agree that it should be spaced out at least a month from the GPSL event. Any further east than Missouri for GPSL would be a bit too far for major participation for the plains states I would think.

The upcoming 20th Anniversary ARHAB Celebration will be a Superlaunch this coming August 11th in Findlay, Ohio.....There will be a dinner at a local restaurant Friday evening for those who are in town and then a Superlaunch at 8:00 am from a farm 5 miles east of Findlay where I flew my very first balloon. After the chase, we will meet for lunch.

I am planning on holding a Southeastern Superlaunch (just like GPSL with a conference) from Huntsville AL but haven't set any dates yet for that....it will probably be a Spring or Fall event. I could also hold a Midwestern Superlaunch from Findlay, Ohio in the future and am available to help Taylor U if they want to hold one from Indiana.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3473. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 20:18:45 UTC
From: Joe
Topic: 3457 Message: 3473

We here at NSS along with our partner birthday boy Bill are holding a ATV, APRS, Repeater, telemetry. valve test,, camera he he he and whatelse wee can stuff into the box a flight also on Aug 11th from the Circus city hamfest. here in baraboo Wisconsin.

who else is planning on flying this day?

Joe @ NSS

wb8elk@... wrote:

> The KC location is great with me as that is only a day's drive from
> Huntsville AL and even closer still to the TN, KY and midwest
> groups....660 miles from here.
>
> Although IN is only 440 miles from here, I think it should be called a
> Midwest Superlaunch and I would agree that it should be spaced out at
> least a month from the GPSL event. Any further east than Missouri for
> GPSL would be a bit too far for major participation for the plains
> states I would think.
>
> The upcoming 20th Anniversary ARHAB Celebration will be a
> Superlaunch this coming August 11th in Findlay, Ohio.....There will be
> a dinner at a local restaurant Friday evening for those who are in
> town and then a Superlaunch at 8:00 am from a farm 5 miles east of
> Findlay where I flew my very first balloon. After the chase, we will
> meet for lunch.
>
> I am planning on holding a Southeastern Superlaunch (just like GPSL
> with a conference) from Huntsville AL but haven't set any dates yet
> for that....it will probably be a Spring or Fall event. I could also
> hold a Midwestern Superlaunch from Findlay, Ohio in the future and am
> available to help Taylor U if they want to hold one from Indiana.
>
> - Bill WB8ELK
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> See what's free at AOL.com
> <http://www.aol.com?ncid=AOLAOF00020000000503>.
>

3474. 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-10 20:23:39 UTC
From: wb8elk@aol.com
Topic: 3474 Message: 3474

Plans are as follows for the 20th ARHAB superlaunch:

Friday evening, August 10th: Meet at local restaurant
Sat Morning at 7:00 am...meet at launchsite - 5 miles east of Findlay, Ohio
Sat Morning at 8:00 am...start of multiples launches
Sat lunch - meet at local restaurant after the chase.

Those wishing to fly a balloon, please confirm so I can get pricing on the helium tanks.

Those wishing to attend, please let me know so I can reserve a large enough room at the restaurant.

There is limited camper and RV space at my parent's farm about 5 miles west of the launchsite....let me know if interested in this option.

- Bill WB8ELK
email: _wb8elk@..._ (mailto:wb8elk@...)

********** See what's free at http://www.aol.com.

3475. Re: [GPSL] Re: NSTAR 07-A max altitude Re:Ascent Rates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-11 04:26:31 UTC
From: Brek Brixius
Topic: 3468 Message: 3475
Attachments: 1 described; binary payloads are missing from this source WARC

BUNS-1 did show a knee at about 37,000 ft. See Attached.

73 - Brek - KC0YOE

Harry M <hhm_74115@...> wrote:

> The interesting thing with our ascent rate data was that it did not show
> the
> typical slowdown around 40,000'...

Here is the data for ORB.
As you can see the slow down started around 55k.

ALT FPM
50508 1017
51791 1283
53028 1237
54189 1161
55213 1024
56197 984
57073 876
57991 918
58903 912
59760 857
60685 925

---

73 Harry

Luggage? GPS? Comic books?
Check out fitting gifts for grads at Yahoo! Search.

3476. RE: [GPSL] TU HARP Launch info

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-11 13:24:56 UTC
From: Nick Hanks
Topic: 3390 Message: 3476
Attachments: 1 described; binary payloads are missing from this source WARC

David,

Someone (maybe you) sent me an email asking for log files from the HARP49 flight. I've lost the email. However, I've attached to the file to this email. Might I ask you to forward it to whoever asked for it?

Note it's not complete as I only caught the last part of the flight.

Nick

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Patterson, David
Sent: Saturday, June 30, 2007 6:29 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] TU HARP Launch info

Taylor University's High Altitude Research Platform is launching HARP49 today from ITT's Family Day in Fort Wayne. Release is scheduled for 12 noon; APRS callsign will be KB9ZNZ-11.

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

3477. Never Ever Give Up Hope of Recovery!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-11 16:11:16 UTC
From: Harry M
Topic: 3477 Message: 3477

Never Ever Give Up Hope of Recovery!

On December 6, 2006, OSU flew ASTRO-6 to an altitude of 96,000 ft. My 10m CW beacon was attached to the bottom of the payload train and it hitched a ride. On the recovery we saw many signs of post burst trauma and only one of the 10m dipole elements remained. I gave it up for lost and forgot about it. This morning (July 11, 2007) I received a call and was asked what I knew about balloons. The gentleman read the following... "High Altitude Balloon Experiment 28.565 Mhz". He said he was in Yale, Oklahoma. Then the light came on and I knew what he was talking about. He said he had found the beacon in a hay field about 2 miles north and 2.5 miles west of Yale, Oklahoma a few months ago. That would put it about 6-8 miles west of the landing site. He said he opened it up and there was a battery inside and it has been laying in his tractor ever since. The other day he asked a fellow farmer if he thought he should call the number on the placard and his friend said "YEP" (that's Okie for OK). I told him I would come out to Yale and buy him lunch. He said that would be great.

73 Harry KC5TRB

3478. Re: [GPSL] Never Ever Give Up Hope of Recovery!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-12 01:03:39 UTC
From: Mike Manes
Topic: 3477 Message: 3478

Sure ... by 'n by, archaeologists might even dig it up :=P - Imagine
the questions they might have!
73 de Mike W5VSI

Harry M wrote:
> Never Ever Give Up Hope of Recovery!
>
> On December 6, 2006, OSU flew ASTRO-6 to an altitude of 96,000 ft. My
> 10m CW beacon was attached to the bottom of the payload train and it
> hitched a ride. On the recovery we saw many signs of post burst trauma
> and only one of the 10m dipole elements remained. I gave it up for lost
> and forgot about it. This morning (July 11, 2007) I received a call and
> was asked what I knew about balloons. The gentleman read the
> following... "High Altitude Balloon Experiment 28.565 Mhz". He said he
> was in Yale, Oklahoma. Then the light came on and I knew what he was
> talking about. He said he had found the beacon in a hay field about 2
> miles north and 2.5 miles west of Yale, Oklahoma a few months ago. That
> would put it about 6-8 miles west of the landing site. He said he opened
> it up and there was a battery inside and it has been laying in his
> tractor ever since. The other day he asked a fellow farmer if he thought
> he should call the number on the placard and his friend said "YEP"
> (that's Okie for OK). I told him I would come out to Yale and buy him
> lunch. He said that would be great.
>
>
> 73 Harry KC5TRB
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3479. Re: [GPSL] 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-11 22:20:57 UTC
From: PAUL VERHAGE
Topic: 3474 Message: 3479

I'm interested in attending. But I'll need to find a way to share the costs. Is anyone going that I could share a ride with?

Paul

>>> <wb8elk@aol.com> 07/10/07 2:23 PM >>>
Plans are as follows for the 20th ARHAB superlaunch:

Friday evening, August 10th: Meet at local restaurant
Sat Morning at 7:00 am...meet at launchsite - 5 miles east of Findlay, Ohio
Sat Morning at 8:00 am...start of multiples launches
Sat lunch - meet at local restaurant after the chase.

Those wishing to fly a balloon, please confirm so I can get pricing on the helium tanks.

Those wishing to attend, please let me know so I can reserve a large enough room at the restaurant.

There is limited camper and RV space at my parent's farm about 5 miles west of the launchsite....let me know if interested in this option.

- Bill WB8ELK
email: _wb8elk@..._ (mailto:wb8elk@...)

********** See what's free at http://www.aol.com.

3480. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-11 22:19:19 UTC
From: PAUL VERHAGE
Topic: 3457 Message: 3480

Glad to hear you're interested in other super launches. Now, if I can just start one on the west coast.

Paul

>>> <wb8elk@...> 07/10/07 2:14 PM >>>
The KC location is great with me as that is only a day's drive from Huntsville AL and even closer still to the TN, KY and midwest groups....660 miles from here.

Although IN is only 440 miles from here, I think it should be called a Midwest Superlaunch and I would agree that it should be spaced out at least a month from the GPSL event. Any further east than Missouri for GPSL would be a bit too far for major participation for the plains states I would think.

The upcoming 20th Anniversary ARHAB Celebration will be a Superlaunch this coming August 11th in Findlay, Ohio.....There will be a dinner at a local restaurant Friday evening for those who are in town and then a Superlaunch at 8:00 am from a farm 5 miles east of Findlay where I flew my very first balloon. After the chase, we will meet for lunch.

I am planning on holding a Southeastern Superlaunch (just like GPSL with a conference) from Huntsville AL but haven't set any dates yet for that....it will probably be a Spring or Fall event. I could also hold a Midwestern Superlaunch from Findlay, Ohio in the future and am available to help Taylor U if they want to hold one from Indiana.

- Bill WB8ELK

********** See what's free at http://www.aol.com.

3481. Re: [GPSL] Never Ever Give Up Hope of Recovery!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-12 00:44:35 UTC
From: Harry M
Topic: 3477 Message: 3481

That's my story and I'm stikin' to it... by George!

<|;)

73 Harry

Sure ... by 'n by, archaeologists might even dig it up :=P - Imagine
the questions they might have!
73 de Mike W5VSI

3482. Re: [GPSL] 110,000 ft picture

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-12 05:11:59 UTC
From: Brek Brixius
Topic: 3436 Message: 3482

Yes, very nice. Thanks Mark. So your balloon sort of popped when it bumped the International Space Station? :D

73 - Brek - KC0YOE

Joe Lynch <n6cl@...> wrote:
Hi Mark,

That picture is so very beautiful. Thank you for sharing it with the group.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

The fish are biting.
Get more visitors on your site using Yahoo! Search Marketing.

3483. Re: [GPSL] 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-12 22:19:26 UTC
From: Mike Manes
Topic: 3474 Message: 3483

Hi Bill, Paul et al,

From what I've gleaned, EOSS's eastern operational boundary is the
the Mississippi River, and then only once a year, max.

Sorry we'll miss that 20th anniversary flight :-{.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> I'm interested in attending. But I'll need to find a way to share the costs. Is anyone going that I could share a ride with?
>
> Paul
>
>>>> <wb8elk@...> 07/10/07 2:23 PM >>>
> Plans are as follows for the 20th ARHAB superlaunch:
>
> Friday evening, August 10th: Meet at local restaurant
> Sat Morning at 7:00 am...meet at launchsite - 5 miles east of Findlay, Ohio
> Sat Morning at 8:00 am...start of multiples launches
> Sat lunch - meet at local restaurant after the chase.
>
> Those wishing to fly a balloon, please confirm so I can get pricing on the
> helium tanks.
>
> Those wishing to attend, please let me know so I can reserve a large enough
> room at the restaurant.
>
> There is limited camper and RV space at my parent's farm about 5 miles west
> of the launchsite....let me know if interested in this option.
>
> - Bill WB8ELK
> email: _wb8elk@..._ (mailto:wb8elk@...)
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> ********** See what's free at http://www.aol.com.
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> Yahoo! Groups Links
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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3484. GPSL 2007 TV spot

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-13 11:06:02 UTC
From: Roger Hammond
Topic: 3484 Message: 3484

Here's a video from one of the local TV stations that stopped by the conference Friday afternoon.

http://www.nebraska.tv/home/8362732.html

Roger KCØMWM

3485. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-13 11:43:56 UTC
From: Troy Campbell
Topic: 3457 Message: 3485

Paul,

I can confirm that we'll host the 2008 GPSL. I don't have dates in mind yet. We'll be having a meeting next week and will come up with a range of dates see what everyone thinks.

Troy

PAUL VERHAGE <paul.verhage@...> wrote: Well, I think I've heard enough. We'll have GPSL 2008 in KC. Can Taylor take on a MWSL on a different date? What days is your workshop?

NSV, can yoou confirm that you can do GPSL? Do you have a date in mind? I'll try to stay for the Saturday dinner. It sunds like it went well.

Paul

PS, Mark, do you have an extra shirt?

>>> "Harry M" <hhm_74115@...> 07/10/07 9:40 AM >>>

I am in favor of only one GPSL in the Plains states.

It would be great to see super launches such as a MWSL
or WCSL or ECSL to supporting ARHAB.

73 Harry KC5TRB

Sick sense of humor? Visit Yahoo! TV's Comedy with an Edge to see what's on, when.

3486. Pictures from the edge of space...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-13 13:50:44 UTC
From: Keith Kaiser
Topic: 3486 Message: 3486
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3487. RE: [GPSL] GPSL 2007 TV spot

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-13 16:32:57 UTC
From: Nick Hanks
Topic: 3484 Message: 3487

That is just super! Nice work Rog.

Nick

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Roger Hammond
Sent: Friday, July 13, 2007 5:06 AM
To: GPSL list
Subject: [GPSL] GPSL 2007 TV spot

Here's a video from one of the local TV stations that stopped by the conference Friday afternoon.

http://www.nebraska.tv/home/8362732.html

Roger KC?MWM

3488. Re: [GPSL] Pictures from the edge of space...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-14 03:19:34 UTC
From: Brek Brixius
Topic: 3486 Message: 3488

Awesome Photos! Thank you for showing them. Nice landing site too. :)

73 - Brek - KC0YOE

Keith Kaiser <keith.kaiser@...> wrote:
Here is a link to the pictures from GPSL 2007 (7/7/07). The Great Plains Super Launch went off like clockwork and we even got to see two of the 10 balloons land, it was great.

I think this might be the first or maybe second time that we have pictures of the entire flight, all the way up to 110,000 feet and all the way down again. Pay special attention to image89 on page 3, I think this is my favorite picture ever from the edge of space. It shows the sun, the blackness of space and the curvature of earth all in one photo. WOW!

As you can see the new nearsat (camera satellite) designed and engineered by Marvin Lynch worked great, we'll be using his design again soon when we teach the ACES class for the Boys & Girls Clubs of KC next month.

http://kaiserklan.com/balloon/gpsl2007/gpsl2007.html

--
YIS/YIV/73's!
Keith D Kaiser
nearspaceventures.com
bsaroundtable.com
kaiserklan.com

We won't tell. Get more on shows you hate to love
(and love to hate): Yahoo! TV's Guilty Pleasures list.

3489. BASE 9 and WW II ballooner

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-14 14:03:06 UTC
From: BASE
Topic: 3457 Message: 3489

BASE 9 was successfully completed on 11 July. It was a very interesting flight (two launches and a partially ensnared parachute during the final descent), and details will be on our website early next week.

The flight concluded with our payloads dangling 60 feet above the ground in a tree in a small grove on a farm in northern Rush county. When I met the property owner, he told me that he was in the Army Air Corps during WW II as a weather man attached to a bomber squadron. One of his tasks was to use balloons to determine the winds aloft via a theodolite. He told me about generating the hydrogen for their balloon fills in England and Europe via electrolysis! He also shared about the time that the RAF scrambled during one of their night launches and shot down two of their balloons.

Of course, he was very willing to help in the recovery of our payloads which brought our day to a successful end.

Howard
hlbrooks@...
www.depauw.edu/acad/physics/base

_____Ready for the edge of your seat?
Check out tonight's top picks on Yahoo! TV.
http://tv.yahoo.com/

3490. Garmin GPS 18 LVC strip down

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-14 23:42:50 UTC
From: Brek Brixius
Topic: 3490 Message: 3490

Anybody ever take one of the little Garmin hockey pucks apart. I'm thinking a good portion of their weight is the magnet meant to stick them to the vehicle. Do they need that magnet?

I'm wanting to build an ultralight APRS system for a solar balloon. I am thinking about using the Garmin GPS 18 LVC, a tiny tracker 300 trying to mount an APRS inside the solar envelope. The air inside should be warm right. That is why solar balloons work. So, I figure I could ditch all the insulation on the APRS package.

Any thoughts anyone has would be greatly appreciated.

73 - Brek - KC0YOE

Fussy? Opinionated? Impossible to please? Perfect. Join Yahoo!'s user panel and lay it on us.

3491. Re: [GPSL] Garmin GPS 18 LVC strip down

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-15 13:43:24 UTC
From: Harry M
Topic: 3490 Message: 3491

Hi Brek,

I can't help on the Garmin GPS 18, but here is a link to my GPS20 GPS25 & GPS 30/30 TracPak Mod that I made years ago. The HP amp's is what I used and it is still working to this day. I don't know what a GPS 18 looks like inside, never had one apart.

http://members.cox.net/hhm_74115/gps/

I do have several Micro Pulse (hockey puck) gps's. I have had them apart and the magnet is not needed.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3492. [Fwd: [KNSP] Balloon available...]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-16 00:18:27 UTC
From: Mike Manes
Topic: 3492 Message: 3492

-------- Original Message --------
Subject: [KNSP] Balloon available...
Date: Sun, 15 Jul 2007 17:07:42 -0500
From: Jim Duncan <jdbandman@...>
To: KNSP@yahoogroups.com

Folks...

Having generally lost interest in ham radio I have been liquidating some
things that have been lying around gathering dust.

I have a Kaymont balloon and two of their parachutes that I would like
to get rid of. The balloon is about 4 years old however it has never
been out of the shipping box nor out of the plastic bag it was shipped in.

I'd like to see somebody that can get some use out of it have it. I paid
about $80.00 for the balloon and chutes originally...

Any reasonable offer will be accepted and I'll ship it off to you by
Priority Mail Flat Rate. Please contact me off list if interested.

No guarantees on the balloon considering its age but if you want to try
it who knows.... It may go to 90K+ feet and float forever or it may
burst upon filling!

--
Jim Duncan, KU0G
Warrensburg, MO

List owner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP
wner: KNSP-owner@yahoogroups.com
Group URL: http://groups.yahoo.com/group/KNSP

Yahoo! Groups Links

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3493. GPSL HoJo email

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-16 02:24:21 UTC
From: Roger Hammond
Topic: 3493 Message: 3493

Hey everyone, this is the email that I just sent to Jackie at the Howard Johnson Riverside Inn.
I hope it doesn't fall on deaf ears. If you'd like to comment on your stay via email, the address is below.

73,

Roger KCØMWM and
Arlene KCØZWX

-----Original Message-----
From: Roger Hammond [mailto:rahammond@...]
Sent: Sunday, July 15, 2007 9:19 PM
To: HOJO (hojosales@...)
Subject: GPSL conference, final thoughts

Jackie,

I received the invoice for our meals and conference fee, and the payment will be mailed tomorrow (Monday). I was going to compose a letter and include it with the payment, but I was hoping that by sending an email it might be forwarded to the hotel manager or someone of authority. I was extremely disappointed in the way things were handled for our conference. My understanding was we were going to be placed into the larger conference room and lunch was to be served in the smaller one. Instead we were packed into the small conference room and lunch was served in the common area. We were promised a sound system, but when I asked you about it you referred me to the other Jackie who informed me that the conference room we were in was small enough that "most people don't need one". She also told me that they don't use it because it bleeds over into the restaurant. That's not my problem and if you promise something you should deliver, much like I promised to pay for the room and the food, and now the check is on its way. I had asked for plug strips and extension cords, because most people would be bringing a laptop computer. There were two in the room. The podium for speaking was in horrible condition and looked like it had been around since the hotel was built. We were promised a cash box to make change from, but when we started taking money, nobody was around to provide this, nor did anyone bother to check and see if we needed anything. Some of the other nuisances were the frequent loud noises coming from the kitchen area adjacent to the conference room.

A large number of our conference attendees stayed at the Howard Johnson Riverside Inn. I heard many complaints from the folks that stayed with you. Some of these complaints were no hot water, air conditioner froze up, no light bulbs in the fixtures, room smelled of urine, reservations lost, to name a few. I have to say I'm kicking myself for not paying the extra money

to have this conference at the Midtown Holiday Inn and I assure you if GPSL returns to Grand Island it will not be at the Howard Johnson.

Roger Hammond

3494. Re: [GPSL] GPSL HoJo email

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-16 03:14:06 UTC
From: Wayne Helms
Topic: 3493 Message: 3494

I was not there but it would not be of deaf ears if your voice was sent to one if not all of these.....

http://www.gichamber.com/staff/index.htm

I have only learned of this balloon thing back in June and it has sparked an interest in me big time since the SONS DRILL when I tripped the the repeater from Harrisburg Arkansas with my Icom W32A Ht and a homemade tape measure beam........

Maybe I'll cya in KC MO

73's

kc5wxc

----- Original Message -----
From: Roger Hammond
To: GPSL list
Sent: Sunday, July 15, 2007 9:24 PM
Subject: [GPSL] GPSL HoJo email

Hey everyone, this is the email that I just sent to Jackie at the Howard Johnson Riverside Inn.
I hope it doesn't fall on deaf ears. If you'd like to comment on your stay via email, the address is below.

73,

Roger KCØMWM and
Arlene KCØZWX

-----Original Message-----
From: Roger Hammond [mailto:rahammond@...]
Sent: Sunday, July 15, 2007 9:19 PM
To: HOJO (hojosales@...)
Subject: GPSL conference, final thoughts

Jackie,

I received the invoice for our meals and conference fee, and the payment will be mailed tomorrow (Monday). I was going to compose a letter and include it with the payment, but I was hoping that by sending an email it might be forwarded to the hotel manager or someone of authority. I was extremely disappointed in the way things were handled for our conference. My understanding was we were going to be placed into the larger conference room and lunch was to be served in the smaller one. Instead we were packed into the small conference room and lunch was served in the common area. We were promised a sound system, but when I asked you about it you referred me to the other Jackie who informed me that the conference room we were in was small enough that "most people don't need one". She also

told me that they don't use it because it bleeds over into the restaurant. That's not my problem and if you promise something you should deliver, much like I promised to pay for the room and the food, and now the check is on its way. I had asked for plug strips and extension cords, because most people would be bringing a laptop computer. There were two in the room. The podium for speaking was in horrible condition and looked like it had been around since the hotel was built. We were promised a cash box to make change from, but when we started taking money, nobody was around to provide this, nor did anyone bother to check and see if we needed anything. Some of the other nuisances were the frequent loud noises coming from the kitchen area adjacent to the conference room.

A large number of our conference attendees stayed at the Howard Johnson Riverside Inn. I heard many complaints from the folks that stayed with you. Some of these complaints were no hot water, air conditioner froze up, no light bulbs in the fixtures, room smelled of urine, reservations lost, to name a few. I have to say I'm kicking myself for not paying the extra money to have this conference at the Midtown Holiday Inn and I assure you if GPSL returns to Grand Island it will not be at the Howard Johnson.

Roger Hammond

3495. Re: [GPSL] GPSL HoJo email

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-16 03:21:38 UTC
From: Wayne Helms
Topic: 3493 Message: 3495

Hey I just looked the HO JO'S is a member of the Chamber.......

73's
kc5wxc
----- Original Message -----
From: Wayne Helms
To: GPSL@yahoogroups.com
Sent: Sunday, July 15, 2007 10:14 PM
Subject: Re: [GPSL] GPSL HoJo email

I was not there but it would not be of deaf ears if your voice was sent to one if not all of these.....

http://www.gichamber.com/staff/index.htm

I have only learned of this balloon thing back in June and it has sparked an interest in me big time since the SONS DRILL when I tripped the the repeater from Harrisburg Arkansas with my Icom W32A Ht and a homemade tape measure beam........

Maybe I'll cya in KC MO

73's

kc5wxc

----- Original Message -----
From: Roger Hammond
To: GPSL list
Sent: Sunday, July 15, 2007 9:24 PM
Subject: [GPSL] GPSL HoJo email

Hey everyone, this is the email that I just sent to Jackie at the Howard Johnson Riverside Inn.
I hope it doesn't fall on deaf ears. If you'd like to comment on your stay via email, the address is below.

73,

Roger KCØMWM and
Arlene KCØZWX

-----Original Message-----
From: Roger Hammond [mailto:rahammond@charter.net]
Sent: Sunday, July 15, 2007 9:19 PM
To: HOJO (hojosales@charterinternet.com)
Subject: GPSL conference, final thoughts

Jackie,

I received the invoice for our meals and conference fee, and the payment will be mailed tomorrow (Monday). I was going to compose a letter and include it with the payment, but I was hoping that by sending an email it might be forwarded to the hotel manager or someone of authority. I was extremely disappointed in the way things were handled for our conference. My understanding was we were going to be placed into the larger conference room and lunch was to be served in the smaller one. Instead we were packed into the small conference room and lunch was served in the common area. We were promised a sound system, but when I asked you about it you referred me to the other Jackie who informed me that the conference room we were in was small enough that "most people don't need one". She also told me that they don't use it because it bleeds over into the restaurant. That's not my problem and if you promise something you should deliver, much like I promised to pay for the room and the food, and now the check is on its way. I had asked for plug strips and extension cords, because most people would be bringing a laptop computer. There were two in the room. The podium for speaking was in horrible condition and looked like it had been around since the hotel was built. We were promised a cash box to make change from, but when we started taking money, nobody was around to provide this, nor did anyone bother to check and see if we needed anything. Some of the other nuisances were the frequent loud noises coming from the kitchen area adjacent to the conference room.

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Roger Hammond

3496. Re: [GPSL] Garmin GPS 18 LVC strip down

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-17 02:00:19 UTC
From: Brek Brixius
Topic: 3490 Message: 3496

Thank you Harry. Very interesting material and nice photo of you in the airplane. :)

73 - Brek - KC0YOE

Harry M <hhm_74115@...> wrote:
Hi Brek,

I can't help on the Garmin GPS 18, but here is a link to my GPS20 GPS25 & GPS 30/30 TracPak Mod that I made years ago. The HP amp's is what I used and it is still working to this day. I don't know what a GPS 18 looks like inside, never had one apart.

http://members.cox.net/hhm_74115/gps/

I do have several Micro Pulse (hockey puck) gps's. I have had them apart and the magnet is not needed.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

Pinpoint customers who are looking for what you sell.

3497. Re: Garmin GPS 18 LVC strip down

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-17 02:56:44 UTC
From: saxdru
Topic: 3490 Message: 3497

We have striped down at least one GPS-18LVC out here in Maryland.
Without the casing and the magnets it is indeed significantly lighter.
The internals come out looking like a standard (but oddly shaped)
Garmin engine (completely enclosed like the GPS-15 or 25) with a
ceramic patch antenna mounted on the top.

I will try to get pictures and the actual weight out tomorrow when i
can get back to the lab.

73s,
Dru Ellsberry
KB3MRQ
MdSGC

--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:
>
> Anybody ever take one of the little Garmin hockey pucks apart. I'm
thinking a good portion of their weight is the magnet meant to stick
them to the vehicle. Do they need that magnet?
>
> I'm wanting to build an ultralight APRS system for a solar
balloon. I am thinking about using the Garmin GPS 18 LVC, a tiny
tracker 300 trying to mount an APRS inside the solar envelope. The
air inside should be warm right. That is why solar balloons work.
So, I figure I could ditch all the insulation on the APRS package.
>
> Any thoughts anyone has would be greatly appreciated.
>
> 73 - Brek - KC0YOE
>
>
>
>
> ---------------------------------
> Fussy? Opinionated? Impossible to please? Perfect. Join Yahoo!'s
user panel and lay it on us.
>

3498. Re: [GPSL] GPSL HoJo email

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-17 02:57:36 UTC
From: Brek Brixius
Topic: 3493 Message: 3498

There was one nice thing about the HOJO. Sure we had to hunt for light bulbs. Sure our AC didn't work. Sure the bathtub held water for several hours after you pulled the stopper.

But they did have a combonation Millipede, Centipede and Missile Command arcade machine near our conference room :D. Got my score up!

73 - Brek - KC0YOE

Roger Hammond <rahammond@...> wrote:
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Roger KC?MWM and
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Subject: GPSL conference, final thoughts

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Roger Hammond

Looking for a deal? Find great prices on flights and hotels with Yahoo! FareChase.

3499. Re: [GPSL] Re: Garmin GPS 18 LVC strip down

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-18 03:42:45 UTC
From: Brek Brixius
Topic: 3490 Message: 3499

Great. I figured someone must have tried this before. It is always nice to know what something looks like inside before go in. I am looking forward to seeing the photos. :)

Thanks.
73 - Brek - KC0YOE

saxdru <dru@...> wrote:
We have striped down at least one GPS-18LVC out here in Maryland.
Without the casing and the magnets it is indeed significantly lighter.
The internals come out looking like a standard (but oddly shaped)
Garmin engine (completely enclosed like the GPS-15 or 25) with a
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I will try to get pictures and the actual weight out tomorrow when i
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thinking a good portion of their weight is the magnet meant to stick
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> 73 - Brek - KC0YOE
>
>
>
>
> ---------------------------------
> Fussy? Opinionated? Impossible to please? Perfect. Join Yahoo!'s
user panel and lay it on us.
>

Get the Yahoo! toolbar and be alerted to new email wherever you're surfing.

3500. Re: [GPSL] GPSL07 FindU FLight Data

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-18 13:00:43 UTC
From: BASE
Topic: 3440 Message: 3500
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3501. Fwd: Pictures from the edge of space...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-18 23:22:55 UTC
From: Deb Kaiser
Topic: 3501 Message: 3501

>
> From: Keith Kaiser [mailto:keith.kaiser@...]
> Sent: Friday, July 13, 2007 8:51 AM
> To: Kaiser, Deb (US); Deb Kaiser; Miller Marion; Leonard Carol;
> Troy_Campbell@...; Campbell Troy & Cindy; Kaiser
> Shannon; Kaiser Bridget Renae; Nate LaGrou
> Cc: Klan Kaiser; List North Star Discussion;
> marvin@...; GPSL@yahoogroups.com
> Subject: Pictures from the edge of space...
>
>
>
> Here is a link to the pictures from GPSL 2007 (7/7/07). The Great
> Plains Super Launch went off like clockwork and we even got to see
> two of the 10 balloons land, it was great.
>
> I think this might be the first or maybe second time that we have
> pictures of the entire flight, all the way up to 110,000 feet and
> all the way down again. Pay special attention to image89 on page 3,
> I think this is my favorite picture ever from the edge of space. It
> shows the sun, the blackness of space and the curvature of earth
> all in one photo. WOW!
>
> As you can see the new nearsat (camera satellite) designed and
> engineered by Marvin Lynch worked great, we'll be using his design
> again soon when we teach the ACES class for the Boys & Girls Clubs
> of KC next month.
>
> http://kaiserklan.com/balloon/gpsl2007/gpsl2007.html
>
> --
> YIS/YIV/73's!
> Keith D Kaiser
> nearspaceventures.com
> bsaroundtable.com
> kaiserklan.com
>
>

3502. New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-20 01:33:14 UTC
From: PAUL VERHAGE
Topic: 3502 Message: 3502

Starting in September I'll begin a column called The Poorman's Space Program for the Society of Amateur Scientists (teir online magazine is called The Citizen Scientist). I'd like to set up a procedure to get experiments up on balloons and I'm looking for ideas.

Is there a preferred way to have someone design an experiment (to some specification) and then put it on a list for a lift? I envision something like the old Get Away Specials that NASA use to do with the Shuttle.

I'm thinking it would be designd like a BalloonSat and that the experimenter would be responsible for paying for a share of the helium and balloon cost. The experimenter would also have to pay for ground shipping te BalloonSat and acceptable the risk that it could get lost or damaged. There would have to be a central website where experiments get listed that groups could consult.

So anyhow, if you have any input please share it.

Thanks,
Paul

3503. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-20 04:59:34 UTC
From: Brek Brixius
Topic: 3502 Message: 3503

Paul:

That sounds very interesting. I think there are folks out there who like to fly balloons and/or track balloons while some folks just want to see if revision 9.9 of their gadget works.

Mailing a package and paying for part of a flight is a lot cheaper than operating an entire flight. Risking a particular experiment is still less than risking the loss of an entire flight plus the experiment. So, I can see some advantages to it.

Figuring out how to hook the package into their flight system and how to activate / operate the experiment may be a headache for the launch team.

I am interested to see what others think on this subject.

73 - Brek - KC0YOE

PAUL VERHAGE <paul.verhage@...> wrote:
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So anyhow, if you have any input please share it.

Thanks,
Paul

Fussy? Opinionated? Impossible to please? Perfect. Join Yahoo!'s user panel and lay it on us.

3504. Nice PR for SimSat in ARRL Letter of Vol 26, No 29 (Friday, July 20, 2007)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-22 04:27:03 UTC
From: Mike Manes
Topic: 3504 Message: 3504

Hi Folks,

Nice piece of PR for ARHAB by the SimSat team and Pat Kilroy in
the current ed. of the ARRL Letter, appended below.

73 de Mike W5VSI, EOSS

--- clip ---
* SimSat Balloon to Launch: A high-altitude balloon carrying Amateur
Radio is being prepared for launch July 24 and 25 that will offer hams
and students in Maryland, Washington DC and a 20 state region a special
opportunity to participate in the operations. "Balloon launches are
being offered as part of a two-week science camp called 'Reach For The
Stars!' at the University of Maryland Eastern Shore," said Pat Kilroy,
N8PK, a long time space and near-space experimenter and engineer at the
NASA Goddard Space Flight Center in Greenbelt, Maryland. "Within minutes
of release from UMES, the balloon's radio footprint will grow to cover
all of Maryland, Virginia, Delaware and many adjoining states. At its
peak of about 100,000 feet, the signals from the balloon will be heard
by all within a 400 mile radius, reaching northward to Maine, westward
out to Detroit and Cincinnati, and south to Savannah," he added. Amateur
Radio operators are invited to participate. There is a list of tasks
that hams can do either on their own or in groups on Kilroy's Web page
<http://www.patkilroy.com/simsat>.
--- clip ---
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3505. A new book on MANHIGH program

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-24 18:17:49 UTC
From: Luis Eduardo Pacheco
Topic: 3505 Message: 3505
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3506. Re: [GPSL] GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-24 19:15:55 UTC
From: PAUL VERHAGE
Topic: 3457 Message: 3506

Gene, I was noticing that I've written an article for ATVQ in each issue for over a year. Could you use a near space column? I'd be interested in continuing to write for your magazine.

Thanks,
Paul

>>> "Gene Harlan" <atvq@...> 07/09/07 9:12 PM >>>
I hope everyone had a great time at GPSL 2007.

Anyone have time for a short overview for ATVQ? Unfortunately, I would need it by Wednesday this week.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@boiseschools.org>
To: <GPSL@yahoogroups.com>
Sent: Monday, July 09, 2007 8:32 PM
Subject: [GPSL] GPSL 2008

For next year's GPSL, both NSV and Taylor have asked to host it. I'm thinking Indiana is a bit far for some people but fine for others. On the other hand, Indiana is good for the east coast (we've had some launch at GPSL in years past).

How does holding two super launches together sound? One would be in KC and the other at Taylor. If so, I'd like to work out an internet connection so we could present at both conferences. Taylor may do a BalloonSat workshop as part of their super launch (can you confirm?). If so, I'd like to do a small BalloonSat work shop for local clubs at the KC super launch.

Please let me know how you feel about two concurrent superlaunches next year.

This also brings to mind that we could make Bill's launch a super launch. Bill?

Paul

Yahoo! Groups Links

Yahoo! Groups Links

3507. Re: [Ballooning] high stability az/el platform

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-25 03:20:14 UTC
From: Mike Manes
Topic: 3507 Message: 3507

Hi Art,

You've sure got the right idea for the platform from which to make those measurements. But there are a couple of issues here, other than the 1/4 deg az/el stable platform, that may be a bit daunting to most amateur balloon groups.

The first is a night flight, which will require a flashing strobe below 60K' if the flight is non-exempt. See 14 CFR 101.35(b). I, for one, think a strobe would be a good idea even for exempt night flights, not only for collision avoidance but also for verification of a clean launch and for recovery. The strobe power would have to be switched off via a 60K' baroswitch or other means to avoid disturbing the lunar albedo measurements, and more importantly, to avoid corona discharge EMI at the GPS and command receivers.

The second is that the balloon would have to be floater to minimize aerodynamic disturbances to the payload. This means either a ZP plastic (read expensive) or a valved latex (feasible but not an established ARHAB capability). Unless the flight were close to the spring or fall stratospheric turnaround, hanging out for very long up there could result in a long downrange recovery. And I'm assuming that this pricey precision aiming system would not be considered disposable.

Now, NASA does fly a lot of very heavy ZPs out of Palestine TX and Ft Sumner NM, and it might be possible to "hitch a ride" on one of those "Buick with 4 scientists" flights. Or maybe Bill Brown would like to give this one a shot?

As a final note, EOSS has built an azimuth-stabilized ATV camera mount based on a 2D electronic magnetic compass and a servo that drives the low-inertia mount against the high-inertia payload structure. It works OK, but is no way as stable or as accurate as you require; it just prevents mal de mer when watching the downlink video :-}. It's also a WHOLE lot lighter than an effective bar magnet! This scheme may be workable if a high-precision 3D compass were used on a floater, with means for manual fine pointing corrections via command uplink; the earth's magnetic field is anything but uniform.

Of course, I've been wrong before ...

73 de Mike W5VSI, EOSS

Art wrote:
> Hi everyone.
>

> The laser comm group recently became interested in streetlight EME,
> which is to confirm that the streetlights from our planet are
> reaching the moon, bouncing off it and are receivable here on earth
> with a good receiver.
>
> This would be done by listening for 60, 120, 180 and 360 Hz signals
> for Eu based receivers (since they use 50 Hz) and by having US based
> receivers listen for 50, 100, 150 and 300 Hz signals (since the US
> uses a 60 Hz power grid).
>
> Someone has done the first approximation, and it indicates that this
> might be possible with current technology, but it would be difficult
> to determine which part of the received signal came from the Earth
> directly and what part came as a result of a reflection off the moon's surface.
>
> No one else in the group is interested in high altitude ballooning,
> so I suggested that a high altitude balloon would be a nice receiving
> platform for this experiment because it's cold up there (much less
> shot noise in the optical receiver) and the vast majority of the
> light from the Earth wouldn't be seen by a balloon based receiver
> pointed at the moon (there would be little to scatter Earth based
> light at those altitudes). So, a high altitude balloon based optical
> receiver would make the detection much easier.
>
> We can handle the optics and the high sensitivity optical receiver
> problems, but the problem of holding the azimuth constant is an unknown factor.
>
> We are currently thinking that the best height is around 75,000 feet,
> where there is a nice balance of cold and reduced atmosphere to
> scatter ground based light.
>
> We believe it is best to launch at a total eclipse of the Moon, which
> makes the ambient light levels on the moon much lower...and there are
> other reasons why the attempt should be made during a total eclipse as well.
>
> To pull it off, we need a receiver platform that can maintain a fixed
> azimuth and elevation while aloft. Ideally, our optical receiver
> would have a field of view of around 1/2 degree, but a tighter field
> of view is desirable for other reasons. My question is whether
> amateurs such as ourselves can build light weight and inexpensive
> fixed alt/az platforms that will hold the elevation and az within 1/4
> degree or better while aloft. If it is possible, how do we do it?
>
> My first thought was to use a large bar magnet which would push
> against the Earth's own magnetic field....which might hold the
> azimuth constant. Is there a better way?
>
> Thanks,
>
> Art

> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
>
> Yahoo! Groups Links
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>
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>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3508. Re: [GPSL] A new book on MANHIGH program

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-25 04:05:34 UTC
From: Mike Manes
Topic: 3505 Message: 3508

Hi Eduardo et al,

Another good book on this topic is Craig Ryan's "The Pre-Astronauts", 1995,
Naval Institute Press, Annapolis MD, ISBN 1-55750-732-5.

My copy is especially prized since it's autographed by Joe Kittinger N4HDP
himself! That was my reward for adding DTMF to his Icom IC-2A HT so he
could hit "moderen" repeaters during his manned He balloon flights :=}.
Joe still holds the world record for bail out altitude (103K') and
the free-fall speed record of over Mach 1 during the Manhigh Project;
he was the first to cross the Atlantic in a solo balloon.

73 de Mike W5VSI, EOSS

PS: Joe's callsign phonetics are Hot Dog Pilot - fitting, eh?

Luis Eduardo Pacheco wrote:
>
> A new book on MANHIGH program
>
> This year mark the 50th anniversary of the MANHIGH project, a
> technological feat that until now passed unnoticed in the mass media
> although the importance of the program as a steping stone of the man in
> the space.
>
> Now, adding more balance to the situation Schiffer Publishing just
> released "Touching Space: The Story of the Project Manhigh" a book
> writen by Gregory P. Kennedy, former Director at the Space Center in
> Alamogordo, New Mexico and author of another historical book about
> Germany's V-2 Rocket (also by Schiffer).
>
> Kittinger in the MANHIGH 1 capsule
>
> We at StratoCat had the honour to read the book and really we enjoyed
> every paragraph, so in our humble opinion this book is a "must have" for
> any person with interest in the subject of ballooning as well in
> astronautics. Along the 128 pages of the book Kennedy makes a deep dive
> in the history of the program, but not only that: also he offers a
> contextual introduction to the manned exploration of the stratosphere.
> The book's first three chapters are devoted to the early aerial pioneers
> like Charles, De Rozier, Blanchard, Jeffries, Coxwell, Glaisher and the
> spanish Herrera, the discovery of the cosmic rays by Victor Hess, ending
> with the famous flights made by the Piccard twins in Europe and
> Northamerica and the two Explorer ascensions from the Stratobowl in the
> 30's.
>

> Few people know that the origin of Manhigh can be traced back to 1947,
> when started the era of the plastic balloon. That's is the topic of the
> next two chapter, centered mainly in the projects of those years like
> "Gopher", the Navy "Skyhook" as well in the first balloon-borne cosmic
> ray studies using animals. This last research soon will lead to the next
> logical step to use instead animals a human pilot. So entering in the
> "core" of the book chapter 6 shows the development of the program and
> introduces the first test flight -known as Manhigh I- wich is covered in
> full length in chapter 7. The continues logically with the second flight
> -really the first scientific one- covered in extreme detail on chapter 8
> and the last one -Manhigh III- closing the program on the next.
>
> Ending the book the author makes an in-deep analysis of the post-Manhigh
> projects and the reasons of the closing of the program. Three appendix
> add information on several related topics as well in others similar
> programs being run in parallel with the Air Force project.
>
> As a result of the research done Kennedy gives to its readers a book
> extremely well documented, plenty of human and technical details on the
> program not widely known. The reading is easy, being oriented to the
> general public, without technical complexities but at the same time
> explaining each topic deeply, helping to build in the lector a complete
> figure of the dimension of the task undertaken with the technology the
> available. As a final note we can say that the book goal to emphasize
> the human factor of the entire project is fully accomplished: it
> portrays perfectly the anger and decision of the man involved on the
> program, from pilots and managers to meteorologists risking careers and
> lives putting hardware and men under space conditions. These men
> deserves all the honour and gratefulness from nowadays space conquest
> actors, beacuase in the time when the only access to space were the tiny
> and primitive first satellites, -as can be read in the book's epilogue-
> ".. they were the space program…".
>
> The book will be available from August 2007 directly from Schiffer Books
> <http://www.schifferbooks.com/newschiffer/book_template.php?isbn=9780764327889>
>
> --
> Luis Eduardo Pacheco
> StratoCat - (english version: http://stratocat.com.ar/indexe.html)
> Historical recopilation project on the use of stratospheric balloons in
> the scientific research, the military field and the aerospace activity
>
>
--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3509. Re: [GPSL] 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-25 18:58:30 UTC
From: ccccrnr@aim.com
Topic: 3474 Message: 3509

Bill,

what is the latest date for helium reservations?

i may have a balloon to launch, but I'm not going to try the trip by myself
if no one else in Bridgeton, MO wants to do an away from home launch.

Sincerely,
Carlton Corbitt
-.-?? ..?? ....-?? -.?? ....?? -.-

-----Original Message-----
From: wb8elk@...
To: GPSL@yahoogroups.com
Cc: balloonatics@yahoogroups.com; balloon_sked@yahoogroups.com; tnballoon@yahoogroups.com; dbowen1@...; ke4fgw@...; wd4jem@...; ttrapp@...; K4IDC@...; garydion@...; jdw@...; BarryL@...; jpicciri@...; corsetti@...; richaga@...; shermane.austin@...; shermane@...; w1lwt@...; jfdailey@...; rrochte@...; rochte@...; PierreThomson@...; MA-Garrett@...; indytrax@...; WB8ELK@...
Sent: Tue, 10 Jul 2007 3:23 pm
Subject: [GPSL] 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Plans are as follows for the 20th ARHAB superlaunch:

?

Friday evening, August 10th: Meet at local restaurant

Sat Morning at 7:00 am...meet at launchsite - 5 miles east of Findlay, Ohio

Sat Morning at 8:00 am...start of multiples launches

Sat lunch - meet at local restaurant after the chase.

?

Those wishing to fly a balloon, please confirm so I can get pricing on the helium tanks.

?

Those wishing to attend, please let me know so I can reserve a large enough room at the restaurant.

?

There is limited camper and RV space at my parent's farm about 5 miles west of the launchsite....let me know if interested in this option.

?

- Bill WB8ELK

email: wb8elk@...

?

?

?

Plans are as follows for the 20th ARHAB superlaunch:

?

Friday evening, August 10th: Meet at local restaurant

Sat Morning at 7:00 am...meet at launchsite - 5 miles east of Findlay, Ohio

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Those wishing to attend, please let me know so I can reserve a large enough room at the restaurant.

?

There is limited camper and RV space at my parent's farm about 5 miles west of the launchsite....let me know if interested in this option.

?

- Bill WB8ELK

email: wb8elk@...

?

?

?

See what's free at AOL.com.

_____
Check Out the new free AIM(R) Mail -- Unlimited storage and industry-leading spam and email virus protection.

3510. Re: [Ballooning] high stability az/el platform

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-26 00:52:22 UTC
From: Mike Manes
Topic: 3507 Message: 3510

Hi Art,

I assumed that this would be a night flight since you were looking
for lunar illumination from terrestrial street lights :=}.

Wish I knew where to send you to start the process of getting aboard
a NASA balloon. If you can touch base with a local NASA Space Grant
College, that might get you heading the right direction.

And the EOSS magnetic az platform is good for maybe +/- 2 or 3 degrees
when the payload is hanging from the ceiling in my shop. The mag
compass resolves magnetic bearing to 1 degree. But in flight, with
the payload slewing, it holds maybe +/- 15 degrees - a SWAG, since I
haven't measured it.

Now, timing the flight to coincide with a lunar eclipse, local night over
the US or Europe and during stratospheric turnaround might leave you
turning gray! I'm thinking that, although I don't want to disparage
a balloon-based science experiment, you might be able to do the job
from the surface - perhaps at a good telescope site - using some heavy
and powerful signal processing equipment, integrating results over
many hours/nights of observations.

Yes, a balloon will get you above the clouds and will reduce atmospheric
attenuation - but there's not THAT much attenuation at Na vapor emission
wavelengths, is there?

73 de Mike W5VSI, EOSS

Art wrote:
> At 11:20 PM 7/24/2007, you wrote:
>> Hi Art,
>>
>> You've sure got the right idea for the platform from which to make
>> those measurements. But there are a couple of issues here, other than
>> the 1/4 deg az/el stable platform, that may be a bit daunting to most
>> amateur balloon groups.
> *
> Yes, to hold the optics on the Moon is a tall order. If the payload was
> designed to minimize the spin rate and the elevation variations, the job
> might be simpler.
>
> *
>> The first is a night flight, which will require a flashing strobe below
>> 60K' if the flight is non-exempt. See 14 CFR 101.35(b). I, for one,
>> think a strobe would be a good idea even for exempt night flights, not
>> only for collision avoidance but also for verification of a clean launch

>> and for recovery. The strobe power would have to be switched off via
>> a 60K' baroswitch or other means to avoid disturbing the lunar albedo
>> measurements, and more importantly, to avoid corona discharge EMI at
>> the GPS and command receivers.
>
> *Technically it doesn't have to be a night flight since reading will be
> taken above 60K feet or so. But, if flown at night, we need a strobe. I
> do have a large supply of flash units pulled form small (disposable)
> cameras that are probably adequate for this purpose. I would need to get
> a barometric switch.
>
> *
>> The second is that the balloon would have to be floater to minimize
>> aerodynamic disturbances to the payload. This means either a ZP
>> plastic (read expensive) or a valved latex (feasible but not an
>> established ARHAB capability). Unless the flight were close to
>> the spring or fall stratospheric turnaround, hanging out for very
>> long up there could result in a long downrange recovery. And I'm
>> assuming that this pricey precision aiming system would not be
>> considered disposable.
>
> I*'m toying with the idea of mounting a photomultiplier tube in a light
> payload (FAA exempt) balloon and launching it during a total eclipse.
> The -60 C temperatures greatly reduce shot noise and the photomultiplier
> is sensitive enough so that we can probably extract the necessary
> spectral data as the field of view sweeps past the moon. I think the
> elevation variations would be minimal due to the wind, especially at 60K
> + feet. By carefully choosing the point at which the payload is
> connected to the balloon, the elevation might be relatively constant as
> the payload rotates? If this method is used, the electronic compass
> would be highly usable to quantify the rotation of the payload-which
> would let us know WHEN the receiver was pointed at the moon.
>
>
> *
>> Now, NASA does fly a lot of very heavy ZPs out of Palestine TX and
>> Ft Sumner NM, and it might be possible to "hitch a ride" on one of
>> those "Buick with 4 scientists" flights. Or maybe Bill Brown would
>> like to give this one a shot?
>
>
> *Hey Mike, is it really possible NASA might have room for a newbies
> experiment? I bet those platforms are very stable and the payloads are
> always recovered!!! They might carry telescopes for star gazing/similar
> observations, so they might be ROCK solid!!?? Sounds like it might be
> worth looking into. Thanks so much for this info.
>
> *
>> As a final note, EOSS has built an azimuth-stabilized ATV camera
>> mount based on a 2D electronic magnetic compass and a servo that

>> drives the low-inertia mount against the high-inertia payload
>> structure. It works OK, but is no way as stable or as accurate
>> as you require; it just prevents mal de mer when watching the downlink
>> video :-}. It's also a WHOLE lot lighter than an effective bar magnet!
>> This scheme may be workable if a high-precision 3D compass were used
>> on a floater, with means for manual fine pointing corrections via
>> command uplink; the earth's magnetic field is anything but uniform.
>
> *Do you have any data on the variation? If it can maintain +/- 3
> degrees, it could be usable since the field of view can be increased to
> keep the moon in view of the receiver-fortunately, space is relatively
> dark, so there would be little 'background noise'::>
>
>
> *
>> Of course, I've been wrong before ...
>
> *I know this feeling::>
>
> Regards and thanks again for the info.
>
> Art*

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3511. [Fwd: Re: [Ballooning] Re: [GPSL] A new book on MANHIGH program]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-26 00:24:03 UTC
From: Mike Manes
Topic: 3511 Message: 3511

-------- Original Message --------
Subject: Re: [Ballooning] Re: [GPSL] A new book on MANHIGH program
Date: Wed, 25 Jul 2007 07:51:35 -0700
From: Pat Barthelow <aa6eg@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Both Excelsior and Man-High projects are incredibl e early space projects that took incredbly brave men, the pre cursors to... hmmm, no the first modern astronauts. Incredibly dangerous, incredibly unforgiving environment, space.

A great book on Excelsior is: THE LONG LONELY LEAP by Kittinger. with a complete story of his record breaking Jumps, some of which nearly killed him, with various system failures. It took so little to go wrong to kill test pilots, one near miss for Joe Kittinger was when his pressure suit did its normal expansion at altitude in the open gondola, caused him be be wedged into his (now) tight fitting seat, and he could not simply stand up and step out at the prescribed altitude. In the heavy heaving and wrenching that followed to free himself from being wedged into his seat, he tripped a timer lanyard that was to delay his pilot chute deployment, for a number of seconds after he left the gondola, with the resulting deployment happening only 2 seconds after leaving, and caused the limp pilot chute and attached parachute sytems to snag, envelope his body, almost killing him, and making him (being unconscious due to oxygen cutoff) fully dependent on the automatic reserve chute to miraculously deploy at about 18,000 ft through the garbage around him during the whole freefall.

Even testing in the altitude chamber he had a very close call at very high "altitude" when his full pressure space suit helmet almost uncoupled from its clamp. A last minute safety, extra tie down, piece of parachute cord on the helmet saved Joe's life on that one. I am sure he bought his rigger a drink, at the local bar after that one. I shudder to think, to be. the altitude chamber operator watching through the window to see the results of a pressure suit helmet blasting off a human test subjects head, at, say 80,000 ft.

Some interesting Sites re space ascents, high altitude jumps, etc...

http://mlsandy.home.tsixroads.com/Corinth_MLSANDY/jk004.html
http://www.batnet.com/mfwright/chamber.html
http://www.sff.net/people/Geoffrey.Landis/vacuum.html
http://www.sff.net/people/Geoffrey.Landis/ebullism.html
http://en.wikipedia.org/wiki/HALO
http://groups.msn.com/spacecowboysaloon/americanspacesuits.msnw
http://www.nps.gov/nr/travel/aviation/text.htm

http://www.halfvalue.com/wiki.jsp?topic=Image:Seal_of_the_US_Air_Force.svg

Sincerely, Pat Barthelow aa6eg@...
http://www.jamesburgdish.org
Jamesburg Earth Station Moon Bounce Team
http://www.cq-vhf.com

>From: "Luis Eduardo Pacheco" <stratocat.iespana.es@...>
>Reply-To: Ballooning@yahoogroups.com
>To: Ballooning@yahoogroups.com
>Subject: Re: [Ballooning] Re: [GPSL] A new book on MANHIGH program
>Date: Wed, 25 Jul 2007 02:09:50 -0300
>
>>
>>My copy is especially prized since it's autographed by Joe Kittinger N4HDP
>>himself! That was my reward for adding DTMF to his Icom IC-2A HT so he
>>could hit "moderen" repeaters during his manned He balloon flights :=}.
>>Joe still holds the world record for bail out altitude (103K') and
>>the free-fall speed record of over Mach 1 during the Manhigh Project;
>>he was the first to cross the Atlantic in a solo balloon.
>
>
>The free fall flight were on EXCELSIOR project. MANHIGH involved the pilot
>inside a sealed capsule and Kittinger only piloted the first one.
>
>More information on each flight
>
>Excelsior III
http://*stratocat*.com.ar/fichas-e/1960/HMN-19600816.htm
>Manhigh I
http://stratocat.com.ar/fichas-e/1957/FMN-19570602.htm
>Manhigh II
http://stratocat.com.ar/fichas-e/1957/CBY-19570818.htm
>Manhigh III
http://*stratocat*.com.ar/fichas-e/1958/HMN-19581008.htm
>Stargazer (also Kittinger)
http://*stratocat*.com.ar/fichas-e/1962/HMN-19621213.htm

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3512. Re: 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-26 03:47:40 UTC
From: Nicholas Stich
Topic: 3474 Message: 3512

> Bill,
>
> what is the latest date for helium reservations?
>
> i may have a balloon to launch, but I'm not going to try the trip
by myself
> if no one else in Bridgeton, MO wants to do an away from home
launch.
>
> Sincerely,
> Carlton Corbitt

Carlton,

I am in kind of the same situation, I too would like to attend and
launch a balloon. I live in Topeka & fly out of Kansas City.
If I attend I will be driving right thru St. Louis.

If you are interested you can contact me directly and we can see
what we can work out.

Best Regards,
Nick Stich
K0NMS

3513. GPSL 2007 ftp site

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 13:02:49 UTC
From: Roger Hammond
Topic: 3513 Message: 3513

Troy with CapNSpace / Near Space Ventures has provided us with an ftp site to transfer all of your pictures, video, data, presentations, etc. Just create a folder within the existing 2007 folder with your group name or call sign and transfer your files there. After everyone has moved their goodies there, I'll compile the files and put them on discs to send to each group if your interested.

Just go to:

ftp://capnspace.org

login: gpsl
password: gpsl

73 de Roger KCØMWM

3514. [astro-officers] Launch Space Available for Piggy Back Satellite

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 13:26:15 UTC
From: Joe
Topic: 3514 Message: 3514

This Came from Another list I'm On.

don't know if it's legit or not,,

Juast for any that's interested.

joe & NSS

ASASC Friends,

I have information about the availability of a piggy back launch
opportunity on a reliable international launcher.

I am not allowed to divulge all of the information related to the
launch in this group email, but here are some hints.

Launch = 1st Quarter 2008
Auxiliary payload weight = 100-120 kg.
Orbit = Sun synchronous

I have marked this posting as URGENT, because we only have 7 to 8
months prior to launch. Usually one needs an advance notice of 12 to
15 months for auxiliary payloads. In this particular case, the launch
provider is willing to make an exception and facilitate expedited
processing by greatly accelerating the process.

Any of you out there, who are looking to launch an auxiliary payload,
or know anybody who might, please email me or call me ASAP.
I am based in San Francisco.

Phone: +1-415-254-5812
susmita.mohanty@...

Cheers, Susmita

To Post a message, s

3515. Re: [GPSL] [astro-officers] Launch Space Available for Piggy Back Satellite

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 15:28:13 UTC
From: Mike Manes
Topic: 3514 Message: 3515

Hey Joe,

"Sun synchronous" is orbital, not a balloon.

73 de Mike W5VSI

Joe wrote:
> This Came from Another list I'm On.
>
> don't know if it's legit or not,,
>
> Juast for any that's interested.
>
> joe & NSS
> --
>
> ASASC Friends,
>
> I have information about the availability of a piggy back launch
> opportunity on a reliable international launcher.
>
> I am not allowed to divulge all of the information related to the
> launch in this group email, but here are some hints.
>
> Launch = 1st Quarter 2008
> Auxiliary payload weight = 100-120 kg.
> Orbit = Sun synchronous
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> I have marked this posting as URGENT, because we only have 7 to 8
> months prior to launch. Usually one needs an advance notice of 12 to
> 15 months for auxiliary payloads. In this particular case, the launch
> provider is willing to make an exception and facilitate expedited
> processing by greatly accelerating the process.
>
> Any of you out there, who are looking to launch an auxiliary payload,
> or know anybody who might, please email me or call me ASAP.
> I am based in San Francisco.
>
> Phone: +1-415-254-5812
> susmita.mohanty@...
>
> Cheers, Susmita
>
>

> To Post a message, s
>
>
>

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Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3516. Re: [GPSL] [astro-officers] Launch Space Available for Piggy Back Satellite

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 14:50:58 UTC
From: Joe
Topic: 3514 Message: 3516

yeah i know that,, he he he,,

but was curious to se if anyone wanted to try to put something
"Really" high.. he he he I wonder where it would be positioned,,,

Joe

Mike Manes wrote:

>Hey Joe,
>
>"Sun synchronous" is orbital, not a balloon.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>This Came from Another list I'm On.
>>
>>don't know if it's legit or not,,
>>
>>Juast for any that's interested.
>>
>>joe & NSS
>>--
>>
>>ASASC Friends,
>>
>>I have information about the availability of a piggy back launch
>>opportunity on a reliable international launcher.
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>>I am not allowed to divulge all of the information related to the
>>launch in this group email, but here are some hints.
>>
>>Launch = 1st Quarter 2008
>>Auxiliary payload weight = 100-120 kg.
>>Orbit = Sun synchronous
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>>I have marked this posting as URGENT, because we only have 7 to 8
>>months prior to launch. Usually one needs an advance notice of 12 to
>>15 months for auxiliary payloads. In this particular case, the launch
>>provider is willing to make an exception and facilitate expedited
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>>

>>Any of you out there, who are looking to launch an auxiliary payload,
>>or know anybody who might, please email me or call me ASAP.
>>I am based in San Francisco.
>>
>>Phone: +1-415-254-5812
>>susmita.mohanty@...
>>
>>Cheers, Susmita
>>
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>>To Post a message, s
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3517. Re: [GPSL] GPSL 2007 ftp site

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 15:37:19 UTC
From: Wayne Helms
Topic: 3513 Message: 3517

I would like a copy of such a disc to take to my ham club meeting there has been an interest sparked by the SONS DRILL back in June. This disc would help other members of the club and maybe launch a club balloon project in the future. If someone has a powerpoint program promoting ARHAB and could share a copy with me that would be great also.

73's
kc5wxc

----- Original Message -----
From: Roger Hammond
To: GPSL list
Sent: Saturday, July 28, 2007 8:02 AM
Subject: [GPSL] GPSL 2007 ftp site

Troy with CapNSpace / Near Space Ventures has provided us with an ftp site to transfer all of your pictures, video, data, presentations, etc. Just create a folder within the existing 2007 folder with your group name or call sign and transfer your files there. After everyone has moved their goodies there, I'll compile the files and put them on discs to send to each group if your interested.

Just go to:

ftp://capnspace.org

login: gpsl
password: gpsl

73 de Roger KCØMWM

3518. Re: [GPSL] [astro-officers] Launch Space Available for Piggy Back Satellite

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 21:27:43 UTC
From: Mike Manes
Topic: 3514 Message: 3518

The more I look at it, the more it sounds like a scam. No one
goes out anon on the i'net to offer a free ride to orbit - no one!
73 de Mike W5VSI

Joe wrote:
> yeah i know that,, he he he,,
>
> but was curious to se if anyone wanted to try to put something
> "Really" high.. he he he I wonder where it would be positioned,,,
>
> Joe
>
> Mike Manes wrote:
>> Hey Joe,
>>
>> "Sun synchronous" is orbital, not a balloon.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> This Came from Another list I'm On.
>>>
>>> don't know if it's legit or not,,
>>>
>>> Juast for any that's interested.
>>>
>>> joe & NSS
>>> ---
>>>
>>> ASASC Friends,
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>>> I have information about the availability of a piggy back launch
>>> opportunity on a reliable international launcher.
>>>
>>> I am not allowed to divulge all of the information related to the
>>> launch in this group email, but here are some hints.
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>>> Launch = 1st Quarter 2008
>>> Auxiliary payload weight = 100-120 kg.
>>> Orbit = Sun synchronous
>>>
>>> I have marked this posting as URGENT, because we only have 7 to 8
>>> months prior to launch. Usually one needs an advance notice of 12 to

>>> 15 months for auxiliary payloads. In this particular case, the launch
>>> provider is willing to make an exception and facilitate expedited
>>> processing by greatly accelerating the process.
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>>> Any of you out there, who are looking to launch an auxiliary payload,
>>> or know anybody who might, please email me or call me ASAP.
>>> I am based in San Francisco.
>>>
>>> Phone: +1-415-254-5812
>>> susmita.mohanty@...
>>>
>>> Cheers, Susmita
>>>
>>>
>>> To Post a message, s
>>>
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>>>
>>>
>>
>>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3519. Re: [GPSL] [astro-officers] Launch Space Available for Piggy Back Satellite

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-28 21:53:34 UTC
From: Joe
Topic: 3514 Message: 3519

I thought so also,

too bad this wasn't on the first of april?

joe

Mike Manes wrote:

>The more I look at it, the more it sounds like a scam. No one
>goes out anon on the i'net to offer a free ride to orbit - no one!
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>yeah i know that,, he he he,,
>>
>>but was curious to se if anyone wanted to try to put something
>>"Really" high.. he he he I wonder where it would be positioned,,,
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>>Joe
>>
>>Mike Manes wrote:
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>>
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>>>73 de Mike W5VSI
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>>>Joe wrote:
>>>
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>>>
>>>>This Came from Another list I'm On.
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>>>>don't know if it's legit or not,,
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>>>>---
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>>>>Any of you out there, who are looking to launch an auxiliary payload,
>>>>or know anybody who might, please email me or call me ASAP.
>>>>I am based in San Francisco.
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>>>>Phone: +1-415-254-5812
>>>>susmita.mohanty@...
>>>>
>>>>Cheers, Susmita
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>>>>To Post a message, s
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3520. Tracking component assistance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-30 17:11:25 UTC
From: Jim
Topic: 3520 Message: 3520

I want to become active in the tracking aspect of this.
I need an Elmer,

I have the following equipment:
-a D700A,
-a Garmin GPS 12 unit,
-a Garmin GPS18 I use via the usb port on my Laptop in the truck
using nRoute software,
-Precision Mapping Streets Travel v. 7.0 installed
-UI_View-32 Installed
-The Laptop in a Gateway MX7711 using XP Home Version 2002 Service
pack 2 with three USB ports no serial ports,
-Processor is a Mobile Atthlon 64 3400+ 787 mhz 448 MB of Ram with a
80 GB Drive.

What else do I need to begin to track the Balloons?
I'd like to be running before I return to work on the 20th of August

73's
James Bair 816-516-2733
Kansas City, Missouri

3521. Re: [KNSP] Tracking help please

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-30 18:11:24 UTC
From: mconner1@gmail.com
Topic: 3521 Message: 3521
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3523. Re: [KNSP] Tracking help please

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-30 22:55:16 UTC
From: Mike Manes
Topic: 3521 Message: 3523

A hand-held 2m beam might be handy once the payload is on the deck.
73 de Mike W5VSI, EOSS

mconner1@... wrote:
> You will need a USB-to-serial converter to connect your D700 to your
> laptop, as the D700 does not have USB. I don't know if there will be
> issues with using a converter to talk to a D700 or not.
>
> Some others on the list might be able to comment on the specifics for
> the GPS-18 and getting UI-View to receive data from it.
>
> Otherwise I think you have all the components necessary.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Jim <jpbairkc@...>
> Date: Monday, July 30, 2007 12:06 pm
> Subject: [KNSP] Tracking help please
> To: KNSP@yahoogroups.com
>
> > I want to become active in the tracking aspect of this.
> > I need an Elmer,
> >
> > I have the following equipment:
> > -a D700A,
> > -a Garmin GPS 12 unit,
> > -a Garmin GPS18 I use via the usb port on my Laptop in the truck
> > using nRoute software,
> > -Precision Mapping Streets Travel v. 7.0 installed
> > -UI_View-32 Installed
> > -The Laptop in a Gateway MX7711 using XP Home Version 2002 Service
> > pack 2 with three USB ports no serial ports,
> > -Processor is a Mobile Atthlon 64 3400+ 787 mhz 448 MB of Ram
> > with a
> > 80 GB Drive.
> >
> > What else do I need to begin to track the Balloons?
> > I'd like to be running before I return to work on the 20th of August
> >
> > 73's
> > James Bair 816-516-2733
> > Kansas City, Missouri
> >
> >

>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3524. Re: Tracking component assistance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-31 00:48:21 UTC
From: kentochs@sbcglobal.net
Topic: 3520 Message: 3524

Jim

A USB serial adapter will work to connect the computer to the D700, to decode and display APRS information. Depending on the adapter, your mileage may vary, but I have had good luck with the adapter I purchased.

To take full advantage of UI-View ability to display your current APRS location on a moving map (Precision Mapping), you need to connect the GPS to the D700's GPS (serial) input. UI-View can redirect the GPS information supplied by this port to display your current APRS position. You will not be able to use a USB serial adapter to connect to this port as there is no way to load the drivers through the D700. Perhaps there is a USB to Serial adapter that does not need Windoz drivers, but I am not aware of any.

I am also not aware of any "feature" in UI-View to redirect the information from another port (serial or USB) on the computer to accomplish function. While this is not a "make or break" feature, it is a nice one. If the GPS 12 is a serial unit, connect it to the D700 GPS input and you will be good to go.

Good Luck in getting your setup working. IMHO, UI-View with a D700 is a great way to go.

Kent
W9KAO

--- In GPSL@yahoogroups.com, "w0jrt" <w0jrt@...> wrote:
>
> I believe the only thing you'll need to add is a USB-to-RS232 serial
> converter which will let you connect the D700A to the computer. The
> D700A will then need to be configured for regular TNC mode (not
APRS)
> as UI-View-32 will perform the APRS function. I'm not familiar with
> UI-View but hopefully it can use the USB version of the GPS18. If
> not, then another USB-to-RS232 serial converter will be needed and
> you'll have to use the GPS12 to provide your current position data
to
> UI-View.
>
> -Jerome, W0JRT
>
> --- In GPSL@yahoogroups.com, "Jim" <jpbairkc@> wrote:
> >...
> > I have the following equipment:

> > -a D700A,
> > -a Garmin GPS 12 unit,
> > -a Garmin GPS18 I use via the usb port on my Laptop in the truck
> > using nRoute software,
> > -Precision Mapping Streets Travel v. 7.0 installed
> > -UI_View-32 Installed
> > -The Laptop in a Gateway MX7711 using XP Home Version 2002 Service
> > pack 2 with three USB ports no serial ports,
> >...
> >
> > What else do I need to begin to track the Balloons?
>

3525. Re: [GPSL] Tracking component assistance

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-31 05:46:56 UTC
From: Brek Brixius
Topic: 3520 Message: 3525

There are probably different ways to get to a working system. I am not familiar with the D700A and you may not be familiar with my equipment but I use UI-View 32 as follows:

I use a Radio Shack handheld scanner (pro 50 I think) as the receive radio. I have an adapter that lets the scanner use an external mag mount mobile antenna. The scanner radio is connected to a KAM (Kantronics TNC) which is connected to the 1 serial port I have in my laptop (COM 1). That is the part that receives the packets from the balloon.

I use a Garmin 18LVC on the roof of my tracking vehicle. I power it from a 5v regulated power supply. It has 9 pin serial plug which I use for some applications but when I track the balloon I use a no-name serial to usb adapter to connect the GPS 18 LVC to the laptop as well.

UI-View 32 then recognizes the balloon packets on com 1 and the GPS 18 LVC on com 5. So the balloon's position is displayed as a balloon with a red ring around it and my position in the tracking vehicle is displayed as cross hairs.

As for your mapping software, again I am not familiar with it. I am using an old copy of Delorme Street Atlas (circa 1999). UI-View 32 has an accessory called SA Map Grabber that will take snapshots of the Street Atlas map. So before a flight I will go run a predict, then use SA Map Grabber to make sure I have close zooms of the entire area near the predicted landing site. That way when I tell UI-View 32 to track the balloon it automatically selects a map that is zoomed in on the location of the balloon and I can see the minor roads in the area.

Mainly because my laptop battery is shot (and because it is convenient) I power the whole works from an inverter. Just make sure you don't shut the vehicle off during a chase.

Well that is what works for me.

Good luck with your setup. I hope you find some of this helpful. :)
73
Brek - KC0YOE

Jim <jpbairkc@...> wrote:
I want to become active in the tracking aspect of this.
I need an Elmer,

I have the following equipment:
-a D700A,
-a Garmin GPS 12 unit,
-a Garmin GPS18 I use via the usb port on my Laptop in the truck
using nRoute software,
-Precision Mapping Streets Travel v. 7.0 installed
-UI_View-32 Installed
-The Laptop in a Gateway MX7711 using XP Home Version 2002 Service
pack 2 with three USB ports no serial ports,

-Processor is a Mobile Atthlon 64 3400+ 787 mhz 448 MB of Ram with a
80 GB Drive.

What else do I need to begin to track the Balloons?
I'd like to be running before I return to work on the 20th of August

73's
James Bair 816-516-2733
Kansas City, Missouri

Building a website is a piece of cake.
Yahoo! Small Business gives you all the tools to get online.

3526. [Fwd: Re: [KNSP] Tracking help please]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-07-31 23:42:23 UTC
From: Mike Manes
Topic: 3526 Message: 3526

-------- Original Message --------
Subject: Re: [KNSP] Tracking help please
Date: Mon, 30 Jul 2007 21:35:53 -0500
From: Stan - N0YXV <n0yxv@...>
Reply-To: Stan - N0YXV <n0yxv@...>
To: Mike Manes <manes@...>
References: <f8l5de+806l@...> <fc88afa9342a.46ade37c@...>
<46AE6C54.4050605@...>

Don't know if it was mentioned already or not but some USB to Serial
converters work better than others. Actually I should have said some
converters work and some don't. Generally you should stay away from the low
cost ones are they tend to be cheap? ;-)

Not sure but I thinnk some body has put together a list some where of the
ones that work and the ones that don't.

----- Original Message -----
From: "Mike Manes" <manes@...>
To: <mconner1@...>
Cc: "Jim" <jpbairkc@...>; <KNSP@yahoogroups.com>;
<gpsl@yahoogroups.com>
Sent: Monday, July 30, 2007 5:55 PM
Subject: Re: [KNSP] Tracking help please

>A hand-held 2m beam might be handy once the payload is on the deck.
> 73 de Mike W5VSI, EOSS
>
> mconner1@... wrote:
>> You will need a USB-to-serial converter to connect your D700 to your
>> laptop, as the D700 does not have USB. I don't know if there will be
>> issues with using a converter to talk to a D700 or not.
>>
>> Some others on the list might be able to comment on the specifics for
>> the GPS-18 and getting UI-View to receive data from it.
>>
>> Otherwise I think you have all the components necessary.
>>
>> 73 de Mark N9XTN
>>
>> ----- Original Message -----
>> From: Jim <jpbairkc@...>
>> Date: Monday, July 30, 2007 12:06 pm
>> Subject: [KNSP] Tracking help please
>> To: KNSP@yahoogroups.com
>>

>> > I want to become active in the tracking aspect of this.
>> > I need an Elmer,
>> >
>> > I have the following equipment:
>> > -a D700A,
>> > -a Garmin GPS 12 unit,
>> > -a Garmin GPS18 I use via the usb port on my Laptop in the truck
>> > using nRoute software,
>> > -Precision Mapping Streets Travel v. 7.0 installed
>> > -UI_View-32 Installed
>> > -The Laptop in a Gateway MX7711 using XP Home Version 2002 Service
>> > pack 2 with three USB ports no serial ports,
>> > -Processor is a Mobile Atthlon 64 3400+ 787 mhz 448 MB of Ram
>> > with a
>> > 80 GB Drive.
>> >
>> > What else do I need to begin to track the Balloons?
>> > I'd like to be running before I return to work on the 20th of August
>> >
>> > 73's
>> > James Bair 816-516-2733
>> > Kansas City, Missouri
>> >
>> >
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>>
>
> --
> Mike Manes manes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so." A.
> Einstein
>
>
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3527. GPSL FTP site

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-01 10:54:51 UTC
From: Roger Hammond
Topic: 3527 Message: 3527

There was a brief problem with the GPSL ftp site, but has been resolved. Harry KC5TRB and myself were the only ones that I knew of that had transferred files to the site. I have Harry's contribution, but I'm still waiting on others. Please upload your presentations and any other pictures, video, or data to the site that might be of interest to others and I'll put together a disc or discs to send out to each group that attended GPSL 2007.

Please upload your files to

ftp://capnspace.org

username: gpsl
password: gpsl

73,

Roger KCØMWM
rahammond@...

3528. KML files from balloon posits

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 03:24:08 UTC
From: Mark Conner
Topic: 3528 Message: 3528

Hi everyone,

I was playing with ArcMap and some of my log data from NSTAR 07-B and I was reminded that I should check into creation of KML files from my log data for 3D visualization.

I have positions every 2-3 seconds for the entire flight, so it's a pretty high-resolution track. Does anyone have any bits of code or (preferably) executables that will take position data in some form and generate KML out the other end? I looked at the KML file someone (Rick?) generated for EOSS-120 and it's pretty extensive.

Anything that would keep me from doing this by hand would be helpful. :)

73 de Mark N9XTN

3529. Tragic loss of one of our balloon and rocket team members

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 03:55:37 UTC
From: wb8elk@aol.com
Topic: 3529 Message: 3529

As many of you may have seen on the news....there was a disastrous explosion at Burt Rutan's Scaled Composites rocket test stand in Mojave, CA last week. They were testing out the rocket engine for Space Ship Two for space tourism.

One of our very active balloon and rocket team members, Glen May, has been working for Burt for the past 4 years and was tragically killed during last week's explosion. Before moving to Mojave, Glen was active here in Huntsville AL in testing our Project HALO rocket and on the launch team boat in the Gulf of Mexico with us when we did our rockoon flights for the HAL5 chapter of the National Space Society for Project HALO (High Altitude Lift Off)....and was also instrumental in High Altitude Research Corp's BLRV (balloon launched return vehicle) and the CATS Prize rockoon. His knowledge of rocketry along with an unbridled enthusiasm and sense of adventure made for a combination that is truly rare among us and he will be greatly missed.

- Bill Brown WB8ELK
Project HALO

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3530. Re: [GPSL] KML files from balloon posits

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 04:23:55 UTC
From: Mike Cochran
Topic: 3528 Message: 3530
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3531. RE: [GPSL] KML files from balloon posits

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 04:47:50 UTC
From: Patterson, David
Topic: 3528 Message: 3531

Mark:

I'd suggest looking into GPS Babel (www.gpsbabel.org). I know that it has a custom style conversion feature, so even if your data isn't in one of the many supported formats, you should be able to run a successful conversion. I've been using this little app to do 3d viz for TU's HARP flights for several months (converting from DeLorme's otherwise incomprehensible *.gpl files), and couldn't be happier with the results.

Hope it helps!

- David Patterson, KB9QLS
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Mark Conner
Sent: Wed 8/1/2007 11:24 PM
To: tvnsp@yahoogroups.com; GPSL@yahoogroups.com; EOSS membership reflector
Subject: [GPSL] KML files from balloon posits

Hi everyone,

I was playing with ArcMap and some of my log data from NSTAR 07-B and
I was reminded that I should check into creation of KML files from my
log data for 3D visualization.

I have positions every 2-3 seconds for the entire flight, so it's a
pretty high-resolution track. Does anyone have any bits of code or
(preferably) executables that will take position data in some form and
generate KML out the other end? I looked at the KML file someone
(Rick?) generated for EOSS-120 and it's pretty extensive.

Anything that would keep me from doing this by hand would be helpful. :)

73 de Mark N9XTN

3532. Re: [GPSL] KML files from balloon posits

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 04:56:50 UTC
From: Rick von Glahn
Topic: 3528 Message: 3532

Balloon Track can do this. However, you need to first run the data file through the program in simulation mode. BT will create an ascii delimited file of the APRS data. You can then go to the file menu on the main program screen and select [File/Convert] and point the dialog to the ascii delimited file (called Flight_Data_xxxxx.csv"). If you are putting out data every few seconds I would suggest you not open up the Flight Analysis screen, or if you do, immediately disable charting. The VB charting engine is totally lame and boggs down incredibly once you have a few hundred records in it. But, you don't need to do this in any case. Just run the log through the simulation mode on the Packet Terminal screen and then do that Convert thing and you should be good to go.

Rick

On Aug 1, 2007, at 9:24 PM, Mark Conner wrote:

> Hi everyone,
>
> I was playing with ArcMap and some of my log data from NSTAR 07-B and
> I was reminded that I should check into creation of KML files from my
> log data for 3D visualization.
>
> I have positions every 2-3 seconds for the entire flight, so it's a
> pretty high-resolution track. Does anyone have any bits of code or
> (preferably) executables that will take position data in some form and
> generate KML out the other end? I looked at the KML file someone
> (Rick?) generated for EOSS-120 and it's pretty extensive.
>
> Anything that would keep me from doing this by hand would be
> helpful. :)
>
> 73 de Mark N9XTN
>
>
>
> Yahoo! Groups Links
>
>
>

3533. Re: [GPSL] KML files from balloon posits

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 19:15:56 UTC
From: PAUL VERHAGE
Topic: 3528 Message: 3533

I wrote an article on Google Earth last year that you might want to look at.

I use a spreadsheet to format the GPS reports and then save it as a comma delimited file. The text file is then copied and pasted into a sample KML file. All I have to do then is adjust the lookat point.

Paul

>>> "Mark Conner" <mconner1@...> 08/01/07 9:24 PM >>>
Hi everyone,

I was playing with ArcMap and some of my log data from NSTAR 07-B and
I was reminded that I should check into creation of KML files from my
log data for 3D visualization.

I have positions every 2-3 seconds for the entire flight, so it's a
pretty high-resolution track. Does anyone have any bits of code or
(preferably) executables that will take position data in some form and
generate KML out the other end? I looked at the KML file someone
(Rick?) generated for EOSS-120 and it's pretty extensive.

Anything that would keep me from doing this by hand would be helpful. :)

73 de Mark N9XTN

Yahoo! Groups Links

3534. Re: [GPSL] Tragic loss of one of our balloon and rocket team members

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 20:55:18 UTC
From: Harry M
Topic: 3529 Message: 3534

Hi Bill,

I'm very sorry to hear of your friends passing.
I did not see it on the news.

73 Harry KC5TRB

3535. Minnesota Bridge Collapse

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-02 21:03:30 UTC
From: Harry M
Topic: 3535 Message: 3535

In the wake of the Minnesota bridge collapse I would like to pass on my prayers to all that it may have had an impact.
I would especially hope that it has not affected the University of Minnesota's Dr. Jim Flaten and the students that participated in GPSL 2007.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3536. HAB Weather 101

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-03 13:38:01 UTC
From: Pete Lilja
Topic: 3536 Message: 3536

A month or so ago someone (forgive me for forgetting who - I'm still learning names around here) mentioned that they were planning to give a talk on weather relating to HABing at GPSL and that he would post his notes / outline online somewhere.

If I am remembering correctly can someone point me to it?

Thanks,

Pete

3537. Re: [GPSL] HAB Weather 101

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-03 15:10:57 UTC
From: mconner1@gmail.com
Topic: 3536 Message: 3537
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3538. Re: [GPSL] Re: 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-04 00:41:58 UTC
From: ccccrnr@aim.com
Topic: 3474 Message: 3538

Nick,

sorry to say but I'd kind of prefer not to go.

My wife and son got a head cold?which kept me from working on the balloon parachute and payload?so?our balloon won't fly yet.? And the guys at the club meeting didn't want to go mostly because of local hamfest but partly because we don't have a flight package.

You probably don't know this but the MO state fair is the 9th - 19th and my wife has asked to go to it that weekend.

I hope this doesn't ruin your plans.??
I used to fly with the balloon club UTARC from Knoxville, TN and 5-6 buddies of mine should be there with balloons, but I'd also like to take my son to the fair.

Sincerely,
Carlton Corbitt

-----Original Message-----
From: Nicholas Stich <NStich@...>
To: GPSL@yahoogroups.com
Sent: Wed, 25 Jul 2007 10:47 pm
Subject: [GPSL] Re: 20th Anniversary ARHAB Superlaunch Celebration Headcount and helium tanks?

> Bill,
>
> what is the latest date for helium reservations?
>
> i may have a balloon to launch, but I'm not going to try the trip
by myself
> if no one else in Bridgeton, MO wants to do an away from home
launch.
>
> Sincerely,
> Carlton Corbitt

Carlton,

I am in kind of the same situation, I too would like to attend and
launch a balloon. I live in Topeka & fly out of Kansas City.
If I attend I will be driving right thru St. Louis.

If you are interested you can contact me directly and we can see
what we can work out.

Best Regards,
Nick Stich
K0NMS

_____
Check Out the new free AIM(R) Mail -- Unlimited storage and industry-leading spam and email virus protection.

3539. Open Tracker (s)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-05 17:46:06 UTC
From: Brek Brixius
Topic: 3539 Message: 3539

I finally got around to assembling the OT1+ that I won at GPSL 2007. Amazingly it works. I say amazingly because 1. I had an OT1x that I was never able to get it to send altitude. 2. I stayed up late last night and it wasn't my best effort at assembly.

Anyhow, I downloaded the new configuration program from Scott's web page and tested the OT1+. Everything worked fine. I really like the multicolor LED by the way. Makes it much easier to tell the status of the unit.

I was encouraged by the success with the OT1+ to try my old OT1x again. It still didn't send altitude. So I used the new config program and dropped the same configuration I had put on the OT1+ on the OT1x. What do you know... It works. Maybe there was something corrupt in my copy of the older version of the config program?

Well, I'm a happy camper now. Thanks Scott. :)

Brek - KC0YOE

Boardwalk for $500? In 2007? Ha!
Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.

3540. RE: [GPSL] Open Tracker (s)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-05 21:11:26 UTC
From: Roger Hammond
Topic: 3539 Message: 3540

Glad to hear you had some success with your OTs. Hope to see them with balloon icons at stratospheric altitudes soon.

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Sunday, August 05, 2007 12:46 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] Open Tracker (s)

I finally got around to assembling the OT1+ that I won at GPSL 2007. Amazingly it works. I say amazingly because 1. I had an OT1x that I was never able to get it to send altitude. 2. I stayed up late last night and it wasn't my best effort at assembly.

Anyhow, I downloaded the new configuration program from Scott's web page and tested the OT1 +. Everything worked fine. I really like the multicolor LED by the way. Makes it much easier to tell the status of the unit.

I was encouraged by the success with the OT1+ to try my old OT1x again. It still didn't send altitude. So I used the new config program and dropped the same configuration I had put on the OT1+ on the OT1x. What do you know... It works. Maybe there was something corrupt in my copy of the older version of the config program?

Well, I'm a happy camper now. Thanks Scott. :)

Brek - KC0YOE

_____

Boardwalk for $500? In 2007? Ha!
Play
<http://us.rd.yahoo.com/evt=48223/*http://get.games.yahoo.com/proddesc?gamekey=monopolyherenow> Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.

3541. 20th Anniversary ARHAB celebration details now updated on WB8ELK website

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-05 21:20:41 UTC
From: wb8elk@aol.com
Topic: 3541 Message: 3541

Things are coming together for the 20th anniversary ARHAB celebration this August 11th at 7:00 to 9:00 am in Findlay, Ohio....directions to the launchsite are now posted and a list of the flights....frequency and time slot details will be posted by Tuesday.

Preliminary weather looks great...but if any problems, Sunday is the raindate at the same times.

Note to Ralph: Nick Stich K0NMS is now added to the flight list.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3542. Website for the 20th anniversary ARHAB celebration

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-05 21:29:40 UTC
From: wb8elk@aol.com
Topic: 3542 Message: 3542

Forgot to post the link in my last post:

http://www.wb8elk.com (http://www.wb8elk.com)

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3543. PPT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-07 19:37:46 UTC
From: PAUL VERHAGE
Topic: 3543 Message: 3543

Don't make the CD ROM yet, I forgot my powerpoint that I would like to include. I should be able to ftp it tomorrow.

Thanks,
Paul

3544. Re: [GPSL] PPT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-07 19:38:18 UTC
From: kc5wxc@bscn.com
Topic: 3543 Message: 3544

could i get a copy of this cd when it's done?

kc5wxc

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Subject: [GPSL] PPT
Date: Tue, 07 Aug 2007 13:37:46 -0600

> Don't make the CD ROM yet, I forgot my powerpoint that I
> would like to include. I should be able to ftp it
> tomorrow.
>
> Thanks,
> Paul
>

3545. Re: [GPSL] PPT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-07 20:26:49 UTC
From: rahammond@charter.net
Topic: 3543 Message: 3545

No worries, I'm waiting on several others.

Roger KC0MWM

---- PAUL VERHAGE <paul.verhage@...> wrote:
> Don't make the CD ROM yet, I forgot my powerpoint that I would like to include. I should be able to ftp it tomorrow.
>
> Thanks,
> Paul

3546. 2007 GPSL CD/DVD

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-07 21:22:25 UTC
From: Roger Hammond
Topic: 3543 Message: 3546

My plan is to send one copy to each group that attended this year's GPSL at no charge.
Other requests for copies will be charged a small fee to cover postage. I'll post a note to this list when the disc(s) have been completed. So far, I've only had a few groups upload anything, but hopefully more will participate.

Thanks for your interest.

73 de Roger KCØMWM

could i get a copy of this cd when it's done?

kc5wxc

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@ <mailto:paul.verhage%40boiseschools.org> boiseschools.org>
To: <GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com>
Subject: [GPSL] PPT
Date: Tue, 07 Aug 2007 13:37:46 -0600

> Don't make the CD ROM yet, I forgot my powerpoint that I
> would like to include. I should be able to ftp it
> tomorrow.
>
> Thanks,
> Paul
>

3547. Re: [GPSL] 2007 GPSL CD/DVD

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-07 21:42:54 UTC
From: Douglas Loughmiller
Topic: 3543 Message: 3547

Hi Roger,

I too would like to get a copy of the CD/DVD and will be morethan gald to pay a fee to get a copy. Let us know how much to send and where to send it to when the time comes. Also, our group would like to participate in the GPSL next year. Have the details for that event been worked out yet?

Thanks and keep up the good work.

73,

Doug Loughmiller, W5BL
ARBONET

Roger Hammond <rahammond@...> wrote:
My plan is to send one copy to each group that attended this year's GPSL at no charge. Other requests for copies will be charged a small fee to cover postage. I'll post a note to this list when the disc(s) have been completed. So far, I've only had a few groups upload anything, but hopefully more will participate.

Thanks for your interest.

73 de Roger KC?MWM

could i get a copy of this cd when it's done?

kc5wxc

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Subject: [GPSL] PPT
Date: Tue, 07 Aug 2007 13:37:46 -0600

> Don't make the CD ROM yet, I forgot my powerpoint that I
> would like to include. I should be able to ftp it
> tomorrow.
>
> Thanks,
> Paul
>

3548. RE: [GPSL] 2007 GPSL CD/DVD

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 00:19:24 UTC
From: Roger Hammond
Topic: 3543 Message: 3548

Doug,

Here's the official site for GPSL 2008 which will be in the Kansas City area hosted by CapNSpace / Near Space Ventures.

<http://nearspaceventures.com/gpsl2008/index.html>
http://nearspaceventures.com/gpsl2008/index.html

73 de Roger KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Douglas Loughmiller
Sent: Tuesday, August 07, 2007 4:43 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] 2007 GPSL CD/DVD

Hi Roger,

I too would like to get a copy of the CD/DVD and will be morethan gald to pay a fee to get a copy. Let us know how much to send and where to send it to when the time comes. Also, our group would like to participate in the GPSL next year. Have the details for that event been worked out yet?

Thanks and keep up the good work.

73,

Doug Loughmiller, W5BL
ARBONET

Roger Hammond <rahammond@...> wrote:

My plan is to send one copy to each group that attended this year's GPSL at no charge.
Other requests for copies will be charged a small fee to cover postage. I'll post a note to this list when the disc(s) have been completed. So far, I've only had a few groups upload anything, but hopefully more will participate.

Thanks for your interest.

73 de Roger KCØMWM

could i get a copy of this cd when it's done?

kc5wxc

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@ <mailto:paul.verhage%40boiseschools.org>

boiseschools.org>
To: <GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com>
Subject: [GPSL] PPT
Date: Tue, 07 Aug 2007 13:37:46 -0600

> Don't make the CD ROM yet, I forgot my powerpoint that I
> would like to include. I should be able to ftp it
> tomorrow.
>
> Thanks,
> Paul
>

3549. RE: [GPSL] 2007 GPSL CD/DVD

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 00:48:19 UTC
From: Doug Loughmiller
Topic: 3543 Message: 3549

Excellent Roger! Thanks very much for passing the web site along. I look forward to participating with you next year.

73,

Doug, W5BL

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Roger Hammond
Sent: Tuesday, August 07, 2007 7:19 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] 2007 GPSL CD/DVD

Doug,

Here's the official site for GPSL 2008 which will be in the Kansas City area hosted by CapNSpace / Near Space Ventures.

<http://nearspaceventures.com/gpsl2008/index.html>
http://nearspaceventures.com/gpsl2008/index.html

73 de Roger KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Douglas Loughmiller
Sent: Tuesday, August 07, 2007 4:43 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] 2007 GPSL CD/DVD

Hi Roger,

I too would like to get a copy of the CD/DVD and will be morethan gald to pay a fee to get a copy. Let us know how much to send and where to send it to when the time comes. Also, our group would like to participate in the GPSL next year. Have the details for that event been worked out yet?

Thanks and keep up the good work.

73,

Doug Loughmiller, W5BL

ARBONET

Roger Hammond <rahammond@...> wrote:

My plan is to send one copy to each group that attended this year's GPSL at no charge.

Other requests for copies will be charged a small fee to cover postage. I'll post a note to this list when the disc(s) have been completed. So far, I've only had a few groups upload anything, but hopefully more will participate.

Thanks for your interest.

73 de Roger KCØMWM

could i get a copy of this cd when it's done?

kc5wxc

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@ <mailto:paul.verhage%40boiseschools.org> boiseschools.org>
To: <GPSL@yahoogroups. <mailto:GPSL%40yahoogroups.com> com>
Subject: [GPSL] PPT
Date: Tue, 07 Aug 2007 13:37:46 -0600

> Don't make the CD ROM yet, I forgot my powerpoint that I
> would like to include. I should be able to ftp it
> tomorrow.
>
> Thanks,
> Paul
>

3550. Long Range forecast for 20th anniversary ARHAB celebration Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 01:01:56 UTC
From: wb8elk@aol.com
Topic: 3550 Message: 3550

About 35 miles southeast track from launchsite just west of Marion, Ohio.
Will update forecasts later this week and on the website:
http://www.wb8elk.com (http://www.wb8elk.com)

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3551. Re: [GPSL] PPT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 01:55:31 UTC
From: David
Topic: 3543 Message: 3551

H i guys, it would be great if we could get one up here in Canada also. I'm desperatly trying to get people involved and could use this kind of help.
If you just sent the file via e-mail that would be fine also.
Much appreciated.

cheers David ve3bbn
----- Original Message -----
From: kc5wxc@...
To: GPSL@yahoogroups.com
Sent: Tuesday, August 07, 2007 3:38 PM
Subject: Re: [GPSL] PPT

could i get a copy of this cd when it's done?

kc5wxc

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Subject: [GPSL] PPT
Date: Tue, 07 Aug 2007 13:37:46 -0600

> Don't make the CD ROM yet, I forgot my powerpoint that I
> would like to include. I should be able to ftp it
> tomorrow.
>
> Thanks,
> Paul
>

3552. 20th anniversary ARHAB celebration Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 14:12:36 UTC
From: Harry M
Topic: 3552 Message: 3552

Hi Bill,

My thoughts will be with you this weekend. Unfortunately I will not be able to attend as I have was asked some time ago to help with the DART-3 altitude record attempt flight this weekend in Oklahoma City. I hope you all have a great time and successful flights!

73 Harry KC5TRB

3553. Re: [GPSL] 2007 GPSL CD/DVD

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 15:04:05 UTC
From: John C Nordlie
Topic: 3543 Message: 3553

Is there any chance of just getting an ISO image of the disc off a website? That would save you some time and effort. -JCN

3554. ARHAB celebration Findlay Ohio

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 15:53:34 UTC
From: JFDAILEY
Topic: 3554 Message: 3554

Taylor U. will have a crossband link in the air at Finley.

uplink: 146.46
Downlink: 446.025

The Fort Wayne radio club will be running net control there callsign is W9TE.

Jeff Dailey
Taylor U. BalloonSAT

3555. NASA's Ultra Long duration Balloon news

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-08 21:16:33 UTC
From: Luis Eduardo Pacheco
Topic: 3555 Message: 3555
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3556. Fw: [solarballoons] ULDB pumpkin test in Elizabeth City NC

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-09 17:58:54 UTC
From: Ralph Wallio, W0RPK
Topic: 3556 Message: 3556

----- Original Message -----
From: "fairchild_24" <fairchild_24@...>
To: <solarballoons@yahoogroups.com>
Sent: Thursday, August 09, 2007 12:51 PM
Subject: [solarballoons] ULDB pumpkin test in Elizabeth City NC

This was a very successful series of tests. There were 2 test articles, one being a new build scaled 27m diameter pumpkin with a max bulge angle of 55 degrees and the next tested being the original 27m pumpkin first tested last March, but with 10 out of its 200 gores trussed-up by sewing the fin-flanges together. They both deployed beautifully in a simulated ascent to 100000 ft by injecting only the scaled amount of lift and then back-filling with air to simulate expansion of the helium.
Large super-pressure pumpkin balloons have been plagued with a peculiar type of buckled shape that we have called an s-cleft. It is caused by having too much bulge material for the given number of gores. Last March, we tested a scaled version of the Sweden pumpkin (flt 555) in order to produce and study the s-cleft phenomenon. It successfully reproduced the s-cleft in captivity. We determined that the shape was not the result of tendon locking or friction, but an actual low-potential energy alternate shape that evolved from the wrinkled and clefted low pressure ascent shapes.
These tests have proven that we can scale the large size balloons properly to a testable size to indicate whether or not a particular design will properly deploy. See the group photo of the team in front of the deployed pumpkin under the photos section. That's me in the red shirt, far left

Rodger Farley, NASA/Goddard Space Flight Center

3557. saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-09 20:33:56 UTC
From: Joe
Topic: 3557 Message: 3557

Hi Ralph,

Jeff I guess isn't understanding me, so I guess we will go with our original plan on linking with Bill's ELK balloon.

Bill and us here in Wisconsin will be sharing 146.52.

So when the two payloads get high enough to see each other they will link up so to speak, and really spread the possible footprint out.

NSS-44 freqs will be 146.52 and 446.000 TX/RX on BOTH, goes either way.

We expect to launch between 8 and 9 AM on Saturday.

Joe Near Space Sciences

3558. Updated flight frequencies for 20th ARHAB celebration August 11th - Findlay OH

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-09 20:45:42 UTC
From: wb8elk@aol.com
Topic: 3558 Message: 3558

Launch between 8 and 9 am August 11th from Findlay, Ohio:

Talk-in freq for launch and activities: 147.15 Findlay Radio Club repeater

Balloon frequencies:

WB8ELK - I'll be flying just 1 balloon - no ATV repeater input this time,
just ATV transmit on 439.25:

ATV: 439.25 HP (live camera with GPS overlay)
2m simplex repeater: 146.52
Voice Beacon: 147.42
APRS (144.39): WB8ELK-12
APRS (144.34): WB8ELK-12

KC8UCH:
Superpressure and possibly a solar balloon as well
APRS (144.39): KC8UCH-11

UTARC:

APRS (144.39): AA4UT-11
RTTY (14.060)

K0NMS:

Rino 110 FRS/GMRS downlink

TaylorU:

APRS (144.39): KB9ZNZ-11
Crossband repeater: 146.46 in - 446.025 out - W9TE net control
Part 15 SS

Univ of Akron:

Part 15 SS

For those attending, we will be meeting at the Bob Evans on the hwy 224 exit
of I-75 in Findlay, Friday night at 6 pm.

More details:
http://www.wb8elk.com (http://www.wb8elk.com)

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3559. Landing site predictions for 20th ARHAB superlaunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-09 20:48:59 UTC
From: wb8elk@aol.com
Topic: 3559 Message: 3559

Between Marion and Mt. Victory, Ohio.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3560. Re: [GPSL] saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-10 00:49:17 UTC
From: Mike Manes
Topic: 3557 Message: 3560

Hi Joe,

Sounds like you're building a stratospheric audio oscillator.

73 de Mike W5VSI

Joe wrote:
> Hi Ralph,
>
> Jeff I guess isn't understanding me, so I guess we will go with our
> original plan on linking with Bill's ELK balloon.
>
> Bill and us here in Wisconsin will be sharing 146.52.
>
> So when the two payloads get high enough to see each other they will
> link up so to speak, and really spread the possible footprint out.
>
> NSS-44 freqs will be 146.52 and 446.000 TX/RX on BOTH, goes
> either way.
>
> We expect to launch between 8 and 9 AM on Saturday.
>
> Joe Near Space Sciences
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3561. Re: [GPSL] saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-10 00:01:16 UTC
From: Joe
Topic: 3557 Message: 3561

nope bills is simplex repeater,

we could do it as hoped with two similar flights as ours, just
different UHF freqs, then no loop.

Joe

Mike Manes wrote:

> Hi Joe,
>
> Sounds like you're building a stratospheric audio oscillator.
>
> 73 de Mike W5VSI
>
> Joe wrote:
>
>> Hi Ralph,
>>
>> Jeff I guess isn't understanding me, so I guess we will go with our
>> original plan on linking with Bill's ELK balloon.
>>
>> Bill and us here in Wisconsin will be sharing 146.52.
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>> So when the two payloads get high enough to see each other they will
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>>
>> NSS-44 freqs will be 146.52 and 446.000 TX/RX on BOTH, goes
>> either way.
>>
>> We expect to launch between 8 and 9 AM on Saturday.
>>
>> Joe Near Space Sciences
>>
>>
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>>
>

3562. Re: [GPSL] saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-10 01:50:26 UTC
From: Mike Manes
Topic: 3557 Message: 3562

OK. I musta missed that part. The duplex cross-band EBBE voice repeater issue is a bit vexing.

Good luck!

73 de Mike W5VSI

Joe wrote:
> nope bills is simplex repeater,
>
> we could do it as hoped with two similar flights as ours, just
> different UHF freqs, then no loop.
>
> Joe
>
> Mike Manes wrote:
>
>> Hi Joe,
>>
>> Sounds like you're building a stratospheric audio oscillator.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> Hi Ralph,
>>>
>>> Jeff I guess isn't understanding me, so I guess we will go with our
>>> original plan on linking with Bill's ELK balloon.
>>>
>>> Bill and us here in Wisconsin will be sharing 146.52.
>>>
>>> So when the two payloads get high enough to see each other they will
>>> link up so to speak, and really spread the possible footprint out.
>>>
>>> NSS-44 freqs will be 146.52 and 446.000 TX/RX on BOTH, goes
>>> either way.
>>>
>>> We expect to launch between 8 and 9 AM on Saturday.
>>>
>>> Joe Near Space Sciences
>>>
>>>
>>>
>>> Yahoo! Groups Links
>>>

>>>
>>>
>>>
>>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3563. Re: [GPSL] saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-10 01:39:53 UTC
From: Joe
Topic: 3557 Message: 3563

should be fun,,

I was trying to get Jeff on board with this also with his dual bander,
then it'd be really cool.

Mike Manes wrote:

> OK. I musta missed that part. The duplex cross-band EBBE voice repeater
> issue is a bit vexing.
>
> Good luck!
>
> 73 de Mike W5VSI
>
> Joe wrote:
>
>> nope bills is simplex repeater,
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>> we could do it as hoped with two similar flights as ours, just
>> different UHF freqs, then no loop.
>>
>> Joe
>>
>> Mike Manes wrote:
>>
>>> Hi Joe,
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>>> Sounds like you're building a stratospheric audio oscillator.
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>>> 73 de Mike W5VSI
>>>
>>> Joe wrote:
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>>>> Hi Ralph,
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>>>> Jeff I guess isn't understanding me, so I guess we will go with
>>>> our original plan on linking with Bill's ELK balloon.
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>>>> Bill and us here in Wisconsin will be sharing 146.52.
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>>>> So when the two payloads get high enough to see each other they
>>>> will link up so to speak, and really spread the possible footprint
>>>> out.
>>>>
>>>> NSS-44 freqs will be 146.52 and 446.000 TX/RX on BOTH, goes
>>>> either way.

>>>>
>>>> We expect to launch between 8 and 9 AM on Saturday.
>>>>
>>>> Joe Near Space Sciences
>>>>
>>>>
>>>>
>>>> Yahoo! Groups Links
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>>>
>>
>

3564. Re: [GPSL] saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-10 15:51:06 UTC
From: Jeff Dailey
Topic: 3557 Message: 3564

The Taylor crossband link freqs.

Uplink 146.46
Downlink 446.025

The fort Wayne radio club will be net control W9TE

Jeff Dailey
Taylor U.
BalloonSAT

--- Joe <nss@...> wrote:

> should be fun,,
>
> I was trying to get Jeff on board with this also
> with his dual bander,
> then it'd be really cool.
>
> Mike Manes wrote:
>
> > OK. I musta missed that part. The duplex
> cross-band EBBE voice repeater
> > issue is a bit vexing.
> >
> > Good luck!
> >
> > 73 de Mike W5VSI
> >
> > Joe wrote:
> >
> >> nope bills is simplex repeater,
> >>
> >> we could do it as hoped with two similar
> flights as ours, just
> >> different UHF freqs, then no loop.
> >>
> >> Joe
> >>
> >> Mike Manes wrote:
> >>
> >>> Hi Joe,
> >>>
> >>> Sounds like you're building a stratospheric
> audio oscillator.
> >>>

> >>> 73 de Mike W5VSI
> >>>
> >>> Joe wrote:
> >>>
> >>>> Hi Ralph,
> >>>>
> >>>> Jeff I guess isn't understanding me, so I
> guess we will go with
> >>>> our original plan on linking with Bill's ELK
> balloon.
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> >>>> Bill and us here in Wisconsin will be sharing
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> >>>> So when the two payloads get high enough to
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> the possible footprint
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> >>>> NSS-44 freqs will be 146.52 and 446.000
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> >>>> either way.
> >>>>
> >>>> We expect to launch between 8 and 9 AM on
> Saturday.
> >>>>
> >>>> Joe Near Space Sciences
> >>>>
> >>>>
> >>>>
> >>>> Yahoo! Groups Links
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>
> Yahoo! Groups Links
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>

Park yourself in front of a world of choices in alternative vehicles. Visit the Yahoo! Auto Green Center.
http://autos.yahoo.com/green_center/

3565. Re: [GPSL] saturday launch.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-11 01:27:55 UTC
From: David
Topic: 3557 Message: 3565

Greetings all, what freq. can I monitor on here in Niagara? I know there's a good chance it will never get here ,but you never know.

cheers David ve3bbn
----- Original Message -----
From: Jeff Dailey
To: GPSL@yahoogroups.com
Sent: Friday, August 10, 2007 11:51 AM
Subject: Re: [GPSL] saturday launch.

The Taylor crossband link freqs.

Uplink 146.46
Downlink 446.025

The fort Wayne radio club will be net control W9TE

Jeff Dailey
Taylor U.
BalloonSAT

--- Joe <nss@...> wrote:

> should be fun,,
>
> I was trying to get Jeff on board with this also
> with his dual bander,
> then it'd be really cool.
>
> Mike Manes wrote:
>
> > OK. I musta missed that part. The duplex
> cross-band EBBE voice repeater
> > issue is a bit vexing.
> >
> > Good luck!
> >
> > 73 de Mike W5VSI
> >
> > Joe wrote:
> >
> >> nope bills is simplex repeater,
> >>
> >> we could do it as hoped with two similar
> flights as ours, just
> >> different UHF freqs, then no loop.
> >>

> >> Joe
> >>
> >> Mike Manes wrote:
> >>
> >>> Hi Joe,
> >>>
> >>> Sounds like you're building a stratospheric
> audio oscillator.
> >>>
> >>> 73 de Mike W5VSI
> >>>
> >>> Joe wrote:
> >>>
> >>>> Hi Ralph,
> >>>>
> >>>> Jeff I guess isn't understanding me, so I
> guess we will go with
> >>>> our original plan on linking with Bill's ELK
> balloon.
> >>>>
> >>>> Bill and us here in Wisconsin will be sharing
> 146.52.
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> >>>> So when the two payloads get high enough to
> see each other they
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> the possible footprint
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> >>>> NSS-44 freqs will be 146.52 and 446.000
> TX/RX on BOTH, goes
> >>>> either way.
> >>>>
> >>>> We expect to launch between 8 and 9 AM on
> Saturday.
> >>>>
> >>>> Joe Near Space Sciences
> >>>>
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> >>>> Yahoo! Groups Links
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>
> Yahoo! Groups Links
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>
>
>
>

Park yourself in front of a world of choices in alternative vehicles. Visit the Yahoo! Auto Green Center.
http://autos.yahoo.com/green_center/

3567. Four payloads recovered...one still flying

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-11 23:16:50 UTC
From: wb8elk@aol.com
Topic: 3567 Message: 3567

Great weather at the 20th and lots of people from several states in attendance....we did a picture perfect group launch of 4 balloons: WB8ELK, K0NMS, KB9ZNZ and U of Akron.....all have been recovered in fields and one in a tree.

The KC8UCH-11 superpressure balloon was launched an hour or so after the first 4 balloons and is still flying at 7000 feet and is heading slowly due south towards KY and TN.

- Bill WB8ELK

****
Get a sneak peek of the all-new AOL at
http://discover.aol.com/memed/aolcom30tour

3568. KC8UCH-11

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 16:10:26 UTC
From: Joe
Topic: 3568 Message: 3568

I got up this morning to check on the flight, and it appeared to have landed some time near 2 am CDT here for i saw last report heard was at that time with a altitude of a little over 1000 feet.

but it appears that the sun has warmed it back up and it's flying again at near 7k feet again.

or am i seeing things..

Joe

3569. Re: [GPSL] KC8UCH-11

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 17:04:47 UTC
From: Robert Rochte
Topic: 3568 Message: 3569

HYSPLIT predicted a descent last night due to vertical currents
(superpressures below 700mb are very susceptible to such things).

If you check the last location against a topo map (ACMEmapper), you'll
see that it was in a narrow river valley... I think that it was
caught under a low-level inversion.

Yes, it is flying now.... :)

On 8/12/07, Joe <nss@...> wrote:
> I got up this morning to check on the flight, and it appeared to have
> landed some time near 2 am CDT here for i saw last report heard was at
> that time with a altitude of a little over 1000 feet.
>
> but it appears that the sun has warmed it back up and it's flying again
> at near 7k feet again.
>
> or am i seeing things..
>
> Joe
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-886-1221 x155 Office
+1 313-378-0525 Mobile

3570. Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 17:09:15 UTC
From: Robert Rochte
Topic: 3570 Message: 3570

Some quick details about this flight:

Balloon is a cylindrical superpressre, volume 25 cubic feet. Payload is a Microtrak 300, Digitraveler GPS and two lithium 9v batteries in a Tyvek mailing envelope (you know how I love under-engineering things!).

Updates on the flight are posted at http://arhab.blogspot.com.

73,
Robert

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-886-1221 x155 Office
+1 313-378-0525 Mobile

3571. Updated landing site prediction for KC8UCH-11 for Sunday night

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 18:37:04 UTC
From: wb8elk@aol.com
Topic: 3571 Message: 3571

Just ran the Hysplit model and if it comes back down around 3 am like it did last night, that would put it down SE of Crossville between Knoxville and Cleveland TN area tonight at 3 am....so while out there watching the Perseids, you might see a super pressure meteor balloon.

http://map.findu.com/kc8uch-11

- Bill WB8ELK

****
Get a sneak peek of the
all-new AOL at http://discover.aol.com/memed/aolcom30tour

3572. KC8UCH super pressure balloon still flying Sunday to Nashville area

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 18:15:47 UTC
From: wb8elk@aol.com
Topic: 3572 Message: 3572

I was surprised to see that the KC8UCH-11 balloon took off again this morning...either it was hovering or perhaps was resting in a grassy field but sure enough up it went again and it travelling southwest just SW of Lexington, KY at the moment.

Congrats Robert on a fascinating balloon mission!!

- Bill WB8ELK

http://map.findu.com/kc8uch-11

****
Get a sneak peek of the all-new AOL at
http://discover.aol.com/memed/aolcom30tour

3573. Re: [GPSL] KC8UCH-11

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 18:58:10 UTC
From: Art
Topic: 3568 Message: 3573

You mean you think it might have been trapped at a low altitude and
that it never landed at all?

I was going to run the last heard position this morning and the first
heard position later on and see just how far apart they are.

I find it absolutely amazing that it could land without snagging a
tree or some brush, then lift off later without snagging a tree or
some brush! If it landed and then lifted off again,. it must have
landed in a big pond or a very large field that had been mowed recently.

If it did indeed land and then lift off again, it has to be a 1 in a
million chance! In the desert, I could see this as being possible,
but in an area that has brusha dn trees----it seems nearly impossible to me.

This is awesome!

If this balloon is landing at night, the same technique could be used
to cross the Atlantic or the Pacific.

Regards,

Art

>HYSPLIT predicted a descent last night due to vertical currents
>(superpressures below 700mb are very susceptible to such things).
>
>If you check the last location against a topo map (ACMEmapper), you'll
>see that it was in a narrow river valley... I think that it was
>caught under a low-level inversion.
>
>Yes, it is flying now.... :)
>
>On 8/12/07, Joe <nss@...> wrote:
> > I got up this morning to check on the flight, and it appeared to have
> > landed some time near 2 am CDT here for i saw last report heard was at
> > that time with a altitude of a little over 1000 feet.
> >
> > but it appears that the sun has warmed it back up and it's flying again
> > at near 7k feet again.
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> > or am i seeing things..
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> > Joe
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>Yahoo! Groups Links
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>--
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.5.476 / Virus Database: 269.11.15/949 - Release Date:
>8/12/2007 11:03 AM

3574. Updated and corrected flight path predictions for KC8UCH balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 20:25:45 UTC
From: wb8elk@aol.com
Topic: 3574 Message: 3574

I meant to say Cookeville, TN (just east of Nashville) on my last post.....that's where it will be at around 3 am tonight and where it could land if it did what it did last night.

If it keeps flying overnight...it will head south from that point and be over Huntsville AL area around noontime Monday....after that it will head towards Birmingham and Mobile and then along the Gulf Coast to the west and loop up through Texas if it stays up several days.

- Bill WB8ELK

****
Get a sneak peek of the all-new AOL at
http://discover.aol.com/memed/aolcom30tour

3575. Re: [GPSL] Updated and corrected flight path predictions for KC8UCH balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 20:31:00 UTC
From: Wayne Helms
Topic: 3574 Message: 3575

I would like to see a photo of this balloon is there one on the web somewhere?

thanks
73's
kc5wxc

----- Original Message -----
From: wb8elk@aol.com
To: w4htb@...
Cc: tnballoon@yahoogroups.com ; balloonatics@yahoogroups.com ; gpsl@yahoogroups.com ; jdw@... ; garydion@yahoo.com ; barryl@... ; rwilson@... ; wa8vwy2@... ; rochte@... ; WB8ELK@...
Sent: Sunday, August 12, 2007 3:25 PM
Subject: [GPSL] Updated and corrected flight path predictions for KC8UCH balloon

I meant to say Cookeville, TN (just east of Nashville) on my last post.....that's where it will be at around 3 am tonight and where it could land if it did what it did last night.

If it keeps flying overnight...it will head south from that point and be over Huntsville AL area around noontime Monday....after that it will head towards Birmingham and Mobile and then along the Gulf Coast to the west and loop up through Texas if it stays up several days.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3576. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 21:48:29 UTC
From: Mike Manes
Topic: 3570 Message: 3576

Hi Robert,

You call it "under-engineering" - I call it "simple as possible".
Nicely done, sir! Hope you get it back before it goes "feet wet".

73 de Mike W5VSI, EOSS

Robert Rochte wrote:
> Some quick details about this flight:
>
> Balloon is a cylindrical superpressre, volume 25 cubic feet. Payload
> is a Microtrak 300, Digitraveler GPS and two lithium 9v batteries in a
> Tyvek mailing envelope (you know how I love under-engineering
> things!).
>
> Updates on the flight are posted at http://arhab.blogspot.com.
>
> 73,
> Robert
>
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3577. Re: [GPSL] Photos from 20th anniversary ARHAB celebration superlaunch

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 21:45:50 UTC
From: wb8elk@aol.com
Topic: 3577 Message: 3577

I have some nice photos of SDG-6 that I'll be posting on my website along with tons of other photos and video clips from the 20th Anniversary Celebration superlaunch:

http://www.wb8elk.com

Since I'm dial-up at my parent's farm, I won't be posting the photos until Thursday evening of next week when I return to Huntsville AL.

- Bill WB8ELK

****
Get a sneak peek of the all-new AOL at
http://discover.aol.com/memed/aolcom30tour

3578. Re: Updated landing site prediction for KC8UCH-11 for Sunday night

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-12 22:52:28 UTC
From: David Hoffman
Topic: 3571 Message: 3578

It's trying to follow you home Bill.

David Hoffman - KE4FGW

> Just ran the Hysplit model and if it comes back down around 3 am like it
> did
> last night, that would put it down SE of Crossville between Knoxville and
> Cleveland TN area tonight at 3 am....so while out there watching the
> Perseids, you
> might see a super pressure meteor balloon.
>
> http://map.findu.com/kc8uch-11
>
>
> - Bill WB8ELK************************************ Get a sneak peek of
> the
> all-new AOL at http://discover.aol.com/memed/aolcom30tour
>
>

3579. Re: SDG-6 details as required by the records...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-13 09:33:42 UTC
From: Ralph Wallio, W0RPK
Topic: 3579 Message: 3579

Robert --

Thanks for another in your continuing series of extraordinary ARHAB achievements! I will be assembling the details later this morning and updating our Launch Announcements and Records.

All-time distance and time records will be updated for your complete flight. Annual contest entries
will be shorter because we have a <2-hour telemetry requirement. For our 2007 Annual ARHAB Contest,
the flight is terminated when telemetry has not been received for more than 2-hours. This does not
apply to our all-time records.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Robert Rochte" <rochte@...>
To: "Ralph Wallio, W0RPK" <w0rpk@...>
Sent: Sunday, August 12, 2007 11:19 PM
Subject: SDG-6 details as required by the records...

Ralph,

It looks like SDG-6 is on the ground now and likely recovered. I have
posted details of the balloon system and the flight in my blog at
http://arhab.blogspot.com.

73,
Robert

3580. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-13 16:14:07 UTC
From: Robert Rochte
Topic: 3570 Message: 3580

Thanks very much for the kind words, Mike! The good news here is that after a record-duration flight, the payload has been recovered! More details on the blog at:

http://arhab.blogspot.com

Thanks to everyone who assisted at the weighing-off and launch in Findlay and for the many, many well-wishers during the flight...
Watch for the SDG-7 flight announcement very soon....

73,
Robert KC8UCH

On 8/12/07, Mike Manes <manes@...> wrote:
> Hi Robert,
>
> You call it "under-engineering" - I call it "simple as possible".
> Nicely done, sir! Hope you get it back before it goes "feet wet".
>
> 73 de Mike W5VSI, EOSS
>

3581. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-13 16:46:07 UTC
From: mconner1@gmail.com
Topic: 3570 Message: 3581
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3582. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-13 16:54:44 UTC
From: Robert Rochte
Topic: 3570 Message: 3582
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3583. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-13 17:33:58 UTC
From: David Hoffman
Topic: 3570 Message: 3583

But at 0723 hours it reported being at 1072' ASL. Then, nearly 8 hours later, it reported being a ? mile away at 3218 ASL. Something held it in that ? mile area for almost 8 hours.

David Hoffman - KE4FGW

> Yes, that is Bill Brown's Sea Skipper concept from some time ago (bouyant
> or
> soluble ballast that dips into the water)... Several of us have
> considered
> it for trans-oceanic flight, but I think that staying high and dry is
> probably the best route.
>
> I'm not convinced that SDG-6 actually landed... It's likely that it
> picked
> up some frost (consider that the descent didn't happen until after
> midnight
> - and from only 6600 feet it took three hours to reach the ground) and
> then
> was trapped beneath an inversion. Is that unlikely? Yes... But, IMHO,
> far
> less unlikely than my payload-in-an-envelope (components held together
> only
> by soldered wires) surviving anything other than a picture-perfect landing
> in freshly-mowed grass.
>
> Something to keep in mind whilst thinking about the reascent of SDG-6 -
> the
> envelope is only 25 cubic feet and weighs about 13 ounces dry (not a typo
> -
> that's twenty-five!). So there's not much room for losing gas, then
> descending, then solaring up enough to fly again... Either it had the gas
> to fly or it didn't - and something else was keeping it down (aliens?).
> :)
>
> Cheers,
> Robert
>
>
> On 8/13/07, mconner1@... <mconner1@...> wrote:
>>
>> Very cool - looks like it was found less than an hour after landing.
>> Too
>> bad you didn't get a favorable spot for a landing two nights in a row -
>> the

>> thing could have hop-scotched quite a distance!
>>
>> I wonder if you could get a transoceanic flight if you flew in an area
>> where the sea surface winds were very quiet. The payload might rest on
>> the
>> water and the balloon might maintain enough buoyancy overnight to not
>> touch
>> the surface. I think, however, it might be tough to get off the water
>> again
>> if the envelope did indeed touch down. The problem would be tracking it
>> with any reliability.
>>
>> I suppose you could do a superpressure helium/air mix and have enough
>> buoyancy to keep the balloon off the surface when the payload touches
>> down,
>> yet not have so much buoyancy during the day that you burst when it goes
>> up.
>>
>> This might work for a long-duration over-land flight too, picking a wind
>> regime where the balloon would tend to say within an area of quiet
>> surface
>> winds (like a large surface high which is often present this time of
>> year).
>> You may not get much distance but you might get a few days' worth of
>> flying.
>>
>> 73 de Mark N9XTN
>>
>> ----- Original Message -----
>> From: Robert Rochte <rrochte@...>
>> Date: Monday, August 13, 2007 11:16 am
>> Subject: Re: [GPSL] Soli Deo Gloria 6
>> To: GPSL@yahoogroups.com
>> Cc: Robert Rochte KC8UCH <rochte@...>
>>
>> > Thanks very much for the kind words, Mike! The good news here is that
>> > after a record-duration flight, the payload has been recovered! More
>> > details on the blog at:
>> >
>> > http://arhab.blogspot.com
>> >
>> > Thanks to everyone who assisted at the weighing-off and launch in
>> > Findlay and for the many, many well-wishers during the flight...
>> > Watch for the SDG-7 flight announcement very soon....
>> >
>> > 73,
>> > Robert KC8UCH
>> >
>> > On 8/12/07, Mike Manes <manes@...> wrote:
>> > > Hi Robert,

>> > >
>> > > You call it "under-engineering" - I call it "simple as possible".
>> > > Nicely done, sir! Hope you get it back before it goes "feet wet".
>> > >
>> > > 73 de Mike W5VSI, EOSS
>> > >
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>
>
> --
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> The Grosse Pointe Academy
> +1 313-886-1221 x155 Office
> +1 313-378-0525 Mobile
>

3584. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-13 18:48:18 UTC
From: Robert Rochte
Topic: 3570 Message: 3584

Calm winds in a narrow river valley... When I plotted the last
position at night using ACMEmapper's topo map, it put it right above
the river inside the walls of the valley...

On 8/13/07, David Hoffman <ke4fgw@...> wrote:
> But at 0723 hours it reported being at 1072' ASL. Then, nearly 8 hours
> later, it reported being a ¼ mile away at 3218 ASL. Something held it in
> that ¼ mile area for almost 8 hours.
>
> David Hoffman - KE4FGW
>
> > Yes, that is Bill Brown's Sea Skipper concept from some time ago (bouyant
> > or
> > soluble ballast that dips into the water)... Several of us have
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> > it for trans-oceanic flight, but I think that staying high and dry is
> > probably the best route.
> >
> > I'm not convinced that SDG-6 actually landed... It's likely that it
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> > up some frost (consider that the descent didn't happen until after
> > midnight
> > - and from only 6600 feet it took three hours to reach the ground) and
> > then
> > was trapped beneath an inversion. Is that unlikely? Yes... But, IMHO,
> > far
> > less unlikely than my payload-in-an-envelope (components held together
> > only
> > by soldered wires) surviving anything other than a picture-perfect landing
> > in freshly-mowed grass.
> >
> > Something to keep in mind whilst thinking about the reascent of SDG-6 -
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> > envelope is only 25 cubic feet and weighs about 13 ounces dry (not a typo
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> > that's twenty-five!). So there's not much room for losing gas, then
> > descending, then solaring up enough to fly again... Either it had the gas
> > to fly or it didn't - and something else was keeping it down (aliens?).
> > :)
> >
> > Cheers,
> > Robert
> >
> >
> > On 8/13/07, mconner1@gmail.com <mconner1@...> wrote:

> >>
> >> Very cool - looks like it was found less than an hour after landing.
> >> Too
> >> bad you didn't get a favorable spot for a landing two nights in a row -
> >> the
> >> thing could have hop-scotched quite a distance!
> >>
> >> I wonder if you could get a transoceanic flight if you flew in an area
> >> where the sea surface winds were very quiet. The payload might rest on
> >> the
> >> water and the balloon might maintain enough buoyancy overnight to not
> >> touch
> >> the surface. I think, however, it might be tough to get off the water
> >> again
> >> if the envelope did indeed touch down. The problem would be tracking it
> >> with any reliability.
> >>
> >> I suppose you could do a superpressure helium/air mix and have enough
> >> buoyancy to keep the balloon off the surface when the payload touches
> >> down,
> >> yet not have so much buoyancy during the day that you burst when it goes
> >> up.
> >>
> >> This might work for a long-duration over-land flight too, picking a wind
> >> regime where the balloon would tend to say within an area of quiet
> >> surface
> >> winds (like a large surface high which is often present this time of
> >> year).
> >> You may not get much distance but you might get a few days' worth of
> >> flying.
> >>
> >> 73 de Mark N9XTN
> >>
> >> ----- Original Message -----
> >> From: Robert Rochte <rrochte@...>
> >> Date: Monday, August 13, 2007 11:16 am
> >> Subject: Re: [GPSL] Soli Deo Gloria 6
> >> To: GPSL@yahoogroups.com
> >> Cc: Robert Rochte KC8UCH <rochte@gmail.com>
> >>
> >> > Thanks very much for the kind words, Mike! The good news here is that
> >> > after a record-duration flight, the payload has been recovered! More
> >> > details on the blog at:
> >> >
> >> > http://arhab.blogspot.com
> >> >
> >> > Thanks to everyone who assisted at the weighing-off and launch in
> >> > Findlay and for the many, many well-wishers during the flight...
> >> > Watch for the SDG-7 flight announcement very soon....
> >> >

> >> > 73,
> >> > Robert KC8UCH
> >> >
> >> > On 8/12/07, Mike Manes <manes@...> wrote:
> >> > > Hi Robert,
> >> > >
> >> > > You call it "under-engineering" - I call it "simple as possible".
> >> > > Nicely done, sir! Hope you get it back before it goes "feet wet".
> >> > >
> >> > > 73 de Mike W5VSI, EOSS
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3585. Re: [GPSL] Soli Deo Gloria 6

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-14 03:48:57 UTC
From: Mike Manes
Topic: 3570 Message: 3585

Congratulations on an outrageously successful flight and advancing
the state of the ARHAB art another notch! Kudos!

I hope you'll be strutting your stuff at GPSL in KC next year.

73 de Mike W5VSI, EOSS

Robert Rochte wrote:
> Thanks very much for the kind words, Mike! The good news here is that
> after a record-duration flight, the payload has been recovered! More
> details on the blog at:
>
> http://arhab.blogspot.com
>
> Thanks to everyone who assisted at the weighing-off and launch in
> Findlay and for the many, many well-wishers during the flight...
> Watch for the SDG-7 flight announcement very soon....
>
> 73,
> Robert KC8UCH
>
> On 8/12/07, Mike Manes <manes@...> wrote:
>> Hi Robert,
>>
>> You call it "under-engineering" - I call it "simple as possible".
>> Nicely done, sir! Hope you get it back before it goes "feet wet".
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>> 73 de Mike W5VSI, EOSS
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> Yahoo! Groups Links
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--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3586. [Fwd: [Ballooning] Biolaunch Video, Ballon Burst, and From the "Bear in the Air"]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-14 03:57:07 UTC
From: Mike Manes
Topic: 3586 Message: 3586

FYI from the ANSR reflector
73 de Mike W5VSI

-------- Original Message --------
Subject: [Ballooning] Biolaunch Video, Ballon Burst, and From the "Bear in the Air"
Date: Mon, 13 Aug 2007 09:49:33 -0700
From: Pat Barthelow <aa6eg@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Mike and Group:

Just got info on Video (and audio) of the Balloon Burst and "post burst chaos", for the recent Biolaunch 07D. they are on you Tube:
http://youtube.com/results?search_query=biolaunch&search=Search

Or just search B07D Bee Zero Seven D on You Tube...

Best
Sincerely, Pat Barthelow aa6eg@...
http://www.jamesburgdish.org
Jamesburg Earth Station Moon Bounce Team
http://www.cq-vhf.com

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3587. Happy Birthday to the many balloon folks born on Aug 15th

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-15 05:54:40 UTC
From: wb8elk@aol.com
Topic: 3587 Message: 3587

Happy Birthday to Joe Mayenschein WB9SBD, Chuck Crist W9IH, myself WB8ELK and several other balloonatics born on Aug. 15th. Must be something in the stars that leads us into ballooning?

Those with birthdays on August 15th that I haven't listed...please email me as I'd like to see just how many of us share that date.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3588. Re: [GPSL] Happy Birthday to the many balloon folks born on Aug 15th

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-15 12:55:42 UTC
From: David Hoffman
Topic: 3587 Message: 3588

Happy Birthday Bill. I had a great time at the 20th anniversary balloon flight celebrationbash. And I look forward to making another one next year too.

David Hoffman - KE4FGW

> Happy Birthday to Joe Mayenschein WB9SBD, Chuck Crist W9IH, myself WB8ELK
> and several other balloonatics born on Aug. 15th. Must be something in
> the
> stars that leads us into ballooning?
>
> Those with birthdays on August 15th that I haven't listed...please email
> me
> as I'd like to see just how many of us share that date.
>
> - Bill WB8ELK
>
>
>
> ********** Get a sneak peek of the all-new AOL
> at
> http://discover.aol.com/memed/aolcom30tour
>

3589. Re: [GPSL] Happy Birthday to the many balloon folks born on Aug 15th

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-16 00:17:59 UTC
From: Mike Manes
Topic: 3587 Message: 3589

Hi all youse Leos,

Happy b'day! Not sure what Leo has to do with balloonacy ...

73 de Mike W5VSI
a double Aries.

wb8elk@... wrote:
> Happy Birthday to Joe Mayenschein WB9SBD, Chuck Crist W9IH, myself
> WB8ELK and several other balloonatics born on Aug. 15th. Must be
> something in the stars that leads us into ballooning?
>
> Those with birthdays on August 15th that I haven't listed...please email
> me as I'd like to see just how many of us share that date.
>
> - Bill WB8ELK
>
>
>
> ---
> Get a sneak peek of the all-new AOL.com
> <http://discover.aol.com/memed/aolcom30tour/?ncid=AOLAOF00020000000982>.
>

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3590. Re: Happy Birthday to the many balloon folks born on Aug 15th

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-16 05:17:07 UTC
From: wb8elk@aol.com
Topic: 3587 Message: 3590

I remember that Troy Campbell KC0MIC of NSV had told me his bday was also August 15th at a past GPSL....so at least 4 balloonatics that share August 15th....that seems to be statistically astronomical of a coincidence. I'm celebrating the 15th anniversary of my 39th.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3591. Re: [GPSL] Happy Birthday to the many balloon folks born on Aug 15th

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-16 15:33:02 UTC
From: Zack Clobes
Topic: 3587 Message: 3591

It's my anniversary if that counts for anything...

Zack

wb8elk@... wrote:
>
> Happy Birthday to Joe Mayenschein WB9SBD, Chuck Crist W9IH, myself
> WB8ELK and several other balloonatics born on Aug. 15th. Must be
> something in the stars that leads us into ballooning?
>
> Those with birthdays on August 15th that I haven't listed...please
> email me as I'd like to see just how many of us share that date.
>
> - Bill WB8ELK
>
>
>
> ---
> Get a sneak peek of the all-new AOL.com
> <http://discover.aol.com/memed/aolcom30tour/?ncid=AOLAOF00020000000982>.
>

3592. Re: [GPSL] KC8UCH-11

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-18 21:12:33 UTC
From: Art
Topic: 3568 Message: 3592

Was this flight ever recovered? I didn't see anything on any of the
lists I subscribe to.

Thanks,

Art

>HYSPLIT predicted a descent last night due to vertical currents
>(superpressures below 700mb are very susceptible to such things).
>
>If you check the last location against a topo map (ACMEmapper), you'll
>see that it was in a narrow river valley... I think that it was
>caught under a low-level inversion.
>
>Yes, it is flying now.... :)
>
>On 8/12/07, Joe <nss@...> wrote:
> > I got up this morning to check on the flight, and it appeared to have
> > landed some time near 2 am CDT here for i saw last report heard was at
> > that time with a altitude of a little over 1000 feet.
> >
> > but it appears that the sun has warmed it back up and it's flying again
> > at near 7k feet again.
> >
> > or am i seeing things..
> >
> > Joe
> >
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>Robert Rochte, Director of Technology
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>Yahoo! Groups Links

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>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.5.476 / Virus Database: 269.11.15/949 - Release Date:
>8/12/2007 11:03 AM

3593. Re: [GPSL] KC8UCH-11

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-19 02:19:43 UTC
From: Robert Rochte
Topic: 3568 Message: 3593

Yes, it was recovered in southern Kentucky about one hour after it landed. The total flight time was over 32 hours. See my blog at http://arhab.blogspot.com for the full story.

Cheers,
Robert

On 8/18/07, Art <KY1K@...> wrote:
> Was this flight ever recovered? I didn't see anything on any of the
> lists I subscribe to.
>
> Thanks,
>
> Art

3594. KC8UCH-11 balloon now aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-22 14:14:19 UTC
From: Robert Rochte
Topic: 3594 Message: 3594

Our latex-towed solar Montgolfiere is aloft now... We have decided to name this balloon "Soli Deo Gloria 7" - or SDG-7 - even though it is not a superpressure like the rest of the SDG series.

It can be tracked using Findu or APRSWorld with these URLs:

http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11

http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes

Prediction shows the balloon flying to the east-south-east, over Lake Erie, then the latex should burst. At this point, the solar should inflate and stabilize around 70k feet (very rough estimate at this point) and return to the west.

Very slow ascent rate due to not enough gas - not sure what this will do to the entire flight....

-R

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-886-1221 x155 Office
+1 313-378-0525 Mobile

3595. Re: [GPSL] KC8UCH-11 balloon now aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-22 14:36:44 UTC
From: David Hoffman
Topic: 3594 Message: 3595

I am just curious, what is your beacon rate set at?

David Hoffman - KE4FGW

> Our latex-towed solar Montgolfiere is aloft now... We have decided to
> name this balloon "Soli Deo Gloria 7" - or SDG-7 - even though it is
> not a superpressure like the rest of the SDG series.
>
> It can be tracked using Findu or APRSWorld with these URLs:
>
> http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11
>
> http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes
>
> Prediction shows the balloon flying to the east-south-east, over Lake
> Erie, then the latex should burst. At this point, the solar should
> inflate and stabilize around 70k feet (very rough estimate at this
> point) and return to the west.
>
> Very slow ascent rate due to not enough gas - not sure what this will
> do to the entire flight....
>
> -R
>
> --
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>

3596. Re: [GPSL] KC8UCH-11 balloon now aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-22 14:40:33 UTC
From: Robert Rochte
Topic: 3594 Message: 3596

Set slow (~3 minutes) to conserve battery - but it's now looking like
this was a bad idea... Some sort of failure has occurred.... I'm
guessing that the payload is in the water now.

On 8/22/07, David Hoffman <ke4fgw@...> wrote:
> I am just curious, what is your beacon rate set at?
>
> David Hoffman - KE4FGW
>
> > Our latex-towed solar Montgolfiere is aloft now... We have decided to
> > name this balloon "Soli Deo Gloria 7" - or SDG-7 - even though it is
> > not a superpressure like the rest of the SDG series.
> >
> > It can be tracked using Findu or APRSWorld with these URLs:
> >
> > http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11
> >
> > http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes
> >
> > Prediction shows the balloon flying to the east-south-east, over Lake
> > Erie, then the latex should burst. At this point, the solar should
> > inflate and stabilize around 70k feet (very rough estimate at this
> > point) and return to the west.
> >
> > Very slow ascent rate due to not enough gas - not sure what this will
> > do to the entire flight....
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> > -R
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3597. Re: [GPSL] KC8UCH-11 balloon now aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-22 14:55:19 UTC
From: David Hoffman
Topic: 3594 Message: 3597

I saw that. All you needed was about 5-6 more miles to clear the lake.
Hopefully you got that. Depends upon what the surface winds were doing
and the descend rate of the payload.

David Hoffman - KE4FGW

> Set slow (~3 minutes) to conserve battery - but it's now looking like
> this was a bad idea... Some sort of failure has occurred.... I'm
> guessing that the payload is in the water now.
>
> On 8/22/07, David Hoffman <ke4fgw@...> wrote:
>> I am just curious, what is your beacon rate set at?
>>
>> David Hoffman - KE4FGW
>>
>> > Our latex-towed solar Montgolfiere is aloft now... We have decided to
>> > name this balloon "Soli Deo Gloria 7" - or SDG-7 - even though it is
>> > not a superpressure like the rest of the SDG series.
>> >
>> > It can be tracked using Findu or APRSWorld with these URLs:
>> >
>> > http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11
>> >
>> > http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes
>> >
>> > Prediction shows the balloon flying to the east-south-east, over Lake
>> > Erie, then the latex should burst. At this point, the solar should
>> > inflate and stabilize around 70k feet (very rough estimate at this
>> > point) and return to the west.
>> >
>> > Very slow ascent rate due to not enough gas - not sure what this will
>> > do to the entire flight....
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3598. Re: [GPSL] KC8UCH-11 balloon now aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-22 14:53:10 UTC
From: Robert Rochte
Topic: 3594 Message: 3598

Stupid design error - discovered at great expense.

Bill Brown wrote to me yesterday, asking if there was a cut-down of some sort to release the latex balloon. If not, he warned, I would need to make sure that the solar Montgolfiere could handle the added mass.

I wrote back quite confidently - sure, the solar balloon can easily lift another 750g! But..... How does that compare to the mass of the payload??

Payload was less than half the mass of the latex balloon...

Oops.... Latex burst, entire system starts to descend and solar balloon starts to fill.... Then the balloon turns over like a slinky and spirals out of the sky, latex first....

A sad day here in Detroit......

73,
Robert

On 8/22/07, David Hoffman <ke4fgw@...> wrote:
> I saw that. All you needed was about 5-6 more miles to clear the lake.
> Hopefully you got that. Depends upon what the surface winds were doing
> and the descend rate of the payload.
>
> David Hoffman - KE4FGW
>
> > Set slow (~3 minutes) to conserve battery - but it's now looking like
> > this was a bad idea... Some sort of failure has occurred.... I'm
> > guessing that the payload is in the water now.
> >
> > On 8/22/07, David Hoffman <ke4fgw@...> wrote:
> >> I am just curious, what is your beacon rate set at?
> >>
> >> David Hoffman - KE4FGW
> >>
> >> > Our latex-towed solar Montgolfiere is aloft now... We have decided to
> >> > name this balloon "Soli Deo Gloria 7" - or SDG-7 - even though it is
> >> > not a superpressure like the rest of the SDG series.
> >> >
> >> > It can be tracked using Findu or APRSWorld with these URLs:
> >> >
> >> > http://www.findu.com/cgi-bin/find.cgi?call=kc8uch-11
> >> >
> >> > http://db.aprsworld.net/datamart/switch.php?call=kc8uch-11&maps=yes

> >> >
> >> > Prediction shows the balloon flying to the east-south-east, over Lake
> >> > Erie, then the latex should burst. At this point, the solar should
> >> > inflate and stabilize around 70k feet (very rough estimate at this
> >> > point) and return to the west.
> >> >
> >> > Very slow ascent rate due to not enough gas - not sure what this will
> >> > do to the entire flight....
> >> >
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3599. CNNSP / EOSS luncheon...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-27 01:55:25 UTC
From: Roger Hammond
Topic: 3599 Message: 3599
Attachments: 2 described; binary payloads are missing from this source WARC

...well sort of.
My wife Arlene KC0ZWX and I were on vacation last week in Colorado. I had emailed some of the EOSS gang about Colorado repeater frequencies before we left and Mike W5VSI and Nick N0LP offered to meet us for lunch if we were to be in the area. We had planned to be transitioning through Denver on Tuesday and arranged to have dinner at Casa Bonita's. Sorry guys, next time we'll let you pick the place. The company and the atmosphere was better than the food, but we appreciated them taking the time to sit down with us and have some pleasant conversation and we enjoyed the camaraderie. I managed to check into the EOSS net on Tuesday night from our cabin near Cripple Creek. The photos were taken outside of Casa Bonita prior to our departure. The first is Nick, Arlene, and Mike, the second is me and Arlene. Thanks again guys, we appreciate all of the tourism tips you gave us. Oh, and I-25 aka the "Ribbon of Death" wasn't too bad heading to Colorado Springs, however, I avoided it on the way home.

73,

Roger KCØMWM
www.cnnsp.org

3600. GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-30 12:36:02 UTC
From: Keith Kaiser
Topic: 3600 Message: 3600
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3601. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-30 12:57:15 UTC
From: Harry M
Topic: 3600 Message: 3601

Hi Keith,

The end of July or the first of July are ok with me as is the extra day.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3602. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-30 13:28:01 UTC
From: PAUL VERHAGE
Topic: 3600 Message: 3602
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3603. Invitation to fly with us

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-30 18:24:06 UTC
From: Jerome Doerrie
Topic: 3603 Message: 3603

Balloons Over Perryton

Reach For Space High Altitude Ballon group and the Top of Panhandle ARC are hosting a one day mini-balloon conference at the Allen Campus of Frank Phillips College in Perryton, TX on Saturday, October 6th. Breakfast and lunch will be served. (pre registration needed for head count) Presentations in the morning and (weather permitting) fly balloons in the afternoon. Hope to have a web page up soon with better info. Perryton is south of Liberal, Kansas on highway #83.

You are welcome to come fly with us, but I will need to hear from you (k5is@...) so there will be helium available. Jerome, K5IS

Sick sense of humor? Visit Yahoo! TV's
Comedy with an Edge to see what's on, when.
http://tv.yahoo.com/collections/222

3604. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-30 21:46:13 UTC
From: BASE
Topic: 3600 Message: 3604

Dear Keith and friends,

BASE (DePauw) is very flexible with the time frame for GPSL next year (anytime between June 1 and August 10 is fine for us). I imagine that we'll be involved with the NSF workshop at Taylor, but I haven't heard any dates for that event.

Personally, the extra time might allow me to get back on the Jewell campus. They have added a nice observatory which I could see about for an evening activity for our group, if anyone is interested.

Howard

--- Keith Kaiser <keith.kaiser@...> wrote:

> As most of you know by now Near Space Ventures and
> CAPnSPACE will be hosting
> the 2008 GPSL conference here in Kansas City, MO.
> Tentatively we scheduled
> it for later than the traditional 4th of July
> weekend by almost a month
> moving it to July 31 - Aug 3, which is actually one
> day longer than usual.
>
> My question to you today is if this is OK, or if not
> what dates work out
> better for you, and if so give me some kind of
> reading on how important
> those dates are? I will collect the dates sent me
> and then post a survey on
> our GPSL Yahoo page and let you guys choose when to
> hold next years
> conference. I would like to hear from as many
> individuals as possible, this
> conference is for each of us, the groups just
> support our launches. It might
> seem we are starting this process a bit early but
> the sooner we all know for
> sure the easier it should be to clear our calendars
> for the event.
>
> The extra day was an idea I had for an optional day
> for static displays by
> groups and vendors (Garmin, NOAA, FAA, etc.), I've

> not talked to anyone yet
> but thought it sounded like a good idea. Let me know
> what you think.
>
> nearspaceventures.com/gpsl2008/
>
> --
> YIS/YIV/73's!
> Keith D Kaiser
> Director, Near Space Ventures
> nearspaceventures.com
> bsaroundtable.com
> kaiserklan.com
>

Park yourself in front of a world of choices in alternative vehicles. Visit the Yahoo! Auto Green Center.
http://autos.yahoo.com/green_center/

3605. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-31 01:07:41 UTC
From: Chris Krengel
Topic: 3600 Message: 3605

Those days are good for me!
Chris Krengel kb0yrz
--- Keith Kaiser <keith.kaiser@...> wrote:

> As most of you know by now Near Space Ventures and
> CAPnSPACE will be hosting
> the 2008 GPSL conference here in Kansas City, MO.
> Tentatively we scheduled
> it for later than the traditional 4th of July
> weekend by almost a month
> moving it to July 31 - Aug 3, which is actually one
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> reading on how important
> those dates are? I will collect the dates sent me
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> our GPSL Yahoo page and let you guys choose when to
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> conference is for each of us, the groups just
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> seem we are starting this process a bit early but
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>
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>
> --
> YIS/YIV/73's!
> Keith D Kaiser
> Director, Near Space Ventures
> nearspaceventures.com
> bsaroundtable.com

> kaiserklan.com
>

Building a website is a piece of cake. Yahoo! Small Business gives you all the tools to get online.
http://smallbusiness.yahoo.com/webhosting

3606. RE: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-31 12:37:52 UTC
From: Patterson, David
Topic: 3600 Message: 3606

Moving GPSL away from the holiday will definitely make getting there easier for HARP (Taylor University) - end of July and early August sounds good. I like the idea of the third day, but don't know how feasible that will be... that call will have to be made as the time approaches.

Looking forward to it already!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Keith Kaiser
Sent: Thu 8/30/2007 8:36 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL 2008 Dates

As most of you know by now Near Space Ventures and CAPnSPACE will be hosting the 2008 GPSL conference here in Kansas City, MO. Tentatively we scheduled it for later than the traditional 4th of July weekend by almost a month moving it to July 31 - Aug 3, which is actually one day longer than usual.

My question to you today is if this is OK, or if not what dates work out better for you, and if so give me some kind of reading on how important those dates are? I will collect the dates sent me and then post a survey on our GPSL Yahoo page and let you guys choose when to hold next years conference. I would like to hear from as many individuals as possible, this conference is for each of us, the groups just support our launches. It might seem we are starting this process a bit early but the sooner we all know for sure the easier it should be to clear our calendars for the event.

The extra day was an idea I had for an optional day for static displays by groups and vendors (Garmin, NOAA, FAA, etc.), I've not talked to anyone yet but thought it sounded like a good idea. Let me know what you think.

nearspaceventures.com/gpsl2008/ <http://nearspaceventures.com/gpsl2008/>

--
YIS/YIV/73's!
Keith D Kaiser
Director, Near Space Ventures
nearspaceventures.com <http://nearspaceventures.com/>
bsaroundtable.com <http://bsaroundtable.com/>
kaiserklan.com <http://kaiserklan.com/>

3607. GPSL 2008 dates - FD weekend some future year?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-08-31 14:42:30 UTC
From: mconner1@gmail.com
Topic: 3607 Message: 3607

NSTAR has a slight preference for the 4th of July weekend. At least one of our members will be involved with pre-start-of-school activities (marching band) by the first weekend of August. However, we would still participate in a late July/early August GPSL 2008.

I'm not sure if we can participate for a full day on Thursday. A lot depends on the vacation time I have available by then. Based on the comments from this year's GPSL, I do plan to stick around for the Saturday afternoon/evening recap of the day's events.

I had some thoughts about combining a future GPSL with Field Day, but to combine it effectively would lock us to one launch site, which is not a good idea - a last-minute change due to track forecasts would be a real bummer for all concerned.

73 de Mark N9XTN

3608. Re: GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 00:50:09 UTC
From: Nicholas Stich
Topic: 3600 Message: 3608

Keith,

Those dates will work for me.

My thought on the extra day is that is would be good if it was really filled with activities that were in addition to what we have had at previous events.

I would NOT be in favor of just having the same number of activities spread over an extra day.

Cheers,
Nick Stich
K0NMS

3609. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 03:10:16 UTC
From: Brek Brixius
Topic: 3600 Message: 3609

Sounds fine.

Brek - KC0YOE

Keith Kaiser <keith.kaiser@...> wrote:
As most of you know by now Near Space Ventures and CAPnSPACE will be hosting the 2008 GPSL conference here in Kansas City, MO. Tentatively we scheduled it for later than the traditional 4th of July weekend by almost a month moving it to July 31 - Aug 3, which is actually one day longer than usual.

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The extra day was an idea I had for an optional day for static displays by groups and vendors (Garmin, NOAA, FAA, etc.), I've not talked to anyone yet but thought it sounded like a good idea. Let me know what you think.

nearspaceventures.com/gpsl2008/

--
YIS/YIV/73's!
Keith D Kaiser
Director, Near Space Ventures
nearspaceventures.com
bsaroundtable.com
kaiserklan.com

Boardwalk for $500? In 2007? Ha!
Play Monopoly Here and Now (it's updated for today's economy) at Yahoo! Games.

3610. RE: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 14:40:38 UTC
From: Roger Hammond
Topic: 3600 Message: 3610

My only preference to the holiday weekend is due to my lovely bride, Arlene, KC0ZWX having limited vacation time with her current employer.
We'll do our best to be there no matter what the date.

Rog KCØMWM
www.cnnsp.org

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Keith Kaiser
Sent: Thursday, August 30, 2007 7:36 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] GPSL 2008 Dates

As most of you know by now Near Space Ventures and CAPnSPACE will be hosting the 2008 GPSL conference here in Kansas City, MO. Tentatively we scheduled it for later than the traditional 4th of July weekend by almost a month moving it to July 31 - Aug 3, which is actually one day longer than usual.

My question to you today is if this is OK, or if not what dates work out better for you, and if so give me some kind of reading on how important those dates are? I will collect the dates sent me and then post a survey on our GPSL Yahoo page and let you guys choose when to hold next years conference. I would like to hear from as many individuals as possible, this conference is for each of us, the groups just support our launches. It might seem we are starting this process a bit early but the sooner we all know for sure the easier it should be to clear our calendars for the event.

The extra day was an idea I had for an optional day for static displays by groups and vendors (Garmin, NOAA, FAA, etc.), I've not talked to anyone yet but thought it sounded like a good idea. Let me know what you think.

nearspaceventures. <http://nearspaceventures.com/gpsl2008/> com/gpsl2008/

--
YIS/YIV/73's!
Keith D Kaiser
Director, Near Space Ventures
nearspaceventures. <http://nearspaceventures.com> com
bsaroundtable. <http://bsaroundtable.com> com
kaiserklan.com

3611. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 16:23:02 UTC
From: Zack Clobes
Topic: 3600 Message: 3611

I like the idea of an extra day. My class is talking about holding
their reunion on either the last weekend in July, or the first weekend
in August.

On the other hand, a non-holiday weekend generally works best for Jon.

Zack

Roger Hammond wrote:
>
> My only preference to the holiday weekend is due to my lovely bride,
> Arlene, KC0ZWX having limited vacation time with her current employer.
> We'll do our best to be there no matter what the date.
>
> Rog KC?MWM
> www.cnnsp.org <http://www.cnnsp.org>
>
>
>
> -----Original Message-----
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> Behalf Of *Keith Kaiser
> *Sent:* Thursday, August 30, 2007 7:36 AM
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] GPSL 2008 Dates
>
> As most of you know by now Near Space Ventures and CAPnSPACE will
> be hosting the 2008 GPSL conference here in Kansas City, MO.
> Tentatively we scheduled it for later than the traditional 4th of
> July weekend by almost a month moving it to July 31 - Aug 3, which
> is actually one day longer than usual.
>
> My question to you today is if this is OK, or if not what dates
> work out better for you, and if so give me some kind of reading on
> how important those dates are? I will collect the dates sent me
> and then post a survey on our GPSL Yahoo page and let you guys
> choose when to hold next years conference. I would like to hear
> from as many individuals as possible, this conference is for each
> of us, the groups just support our launches. It might seem we are
> starting this process a bit early but the sooner we all know for
> sure the easier it should be to clear our calendars for the event.
>
> The extra day was an idea I had for an optional day for static
> displays by groups and vendors (Garmin, NOAA, FAA, etc.), I've not
> talked to anyone yet but thought it sounded like a good idea. Let
> me know what you think.

>
> nearspaceventures.com/gpsl2008/
> <http://nearspaceventures.com/gpsl2008/>
>
> --
> YIS/YIV/73's!
> Keith D Kaiser
> Director, Near Space Ventures
> nearspaceventures.com <http://nearspaceventures.com>
> bsaroundtable.com <http://bsaroundtable.com>
> kaiserklan.com <http://kaiserklan.com>
>
>

3612. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 20:38:24 UTC
From: Robert Rochte
Topic: 3600 Message: 3612
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3613. ORB-23 POST FLIGHT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 21:16:12 UTC
From: Harry M
Topic: 3613 Message: 3613

ORB-23 was launched at approx. 0757 CDT. The ascent was a little slower than predicted. With very light winds the chase team was able to stay ahead of the flight and make several stops along the way to get snacks, work several stations on the Parrot Repeater and generally just hang out, all while visually keeping an eye on the balloon. Burst occured around 98,000 feet and descent was as predicted. The flight descended right across Cushing airport while Sky Divers were also descending. ORB-23 landed 200 feet from the hangers and just off airport property.

Here are the landing coord's... 35.953 -96.777167

After recovery some of the chase team went to the car show in Bristow for lunch.

Thanks to all who participated!

73 Harry KC5TRB

3614. Re: ORB-23 POST FLIGHT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-01 22:05:29 UTC
From: Harry M
Topic: 3613 Message: 3614

I would like to thank the Northwest Technical Institute, N5NTI Amateur Radio Club members, Billy (N5QEM) and his wife Phylis and Mark (N5OTD) and his wife Carol for participating in this flight. You will be seeing N5NTI flights in the near future.

73 Harry KC5TRB

3615. New email address

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 03:07:15 UTC
From: Mike Manes
Topic: 3615 Message: 3615

Hello email correspondents,

This is to notify you that I've changed my email address from:

manes@...

to

mrmanes@...

It's been sent to every email address in my address book, so
there are no doubt duplications. Please accept my sincere
apologies.

I don't recall many of you, so there's a chance that you recall
me. So I've appended my major current associations to my
signature for your info.

I intend to keep the attglobal.net address active until the end
of September 07.

Best regards,
Mike Manes

Consultant, ConMed Electrosurgery
Member AAMI and IEC HF Surgery Standards Committees
President, Edge of Space Sciences
Ham radio licensee W5VSI
Member Colorado ARES
Navy-Marine Corps MARS, NNN0RPM
BSEE Duke 1966
Theta Chi, Gamma Sigma '66

--
Mike Manes manes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so." A. Einstein

3616. mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 15:45:03 UTC
From: Roger Hammond
Topic: 3616 Message: 3616
Attachments: 1 described; binary payloads are missing from this source WARC

The payload camera on CNNSP-09 took a little over 200 pictures yesterday, before the batteries died. I installed a brand new 1GB card and the timer was set for a photo every 30 seconds, unfortunately I forgot to turn off the flash, and the batteries did the best they could.

This picture that was taken ascending through 75,000 feet, has me a little puzzled. There's an object that showed up in the upper right portion of the screen. If this had been a multi-balloon launch, I would have thought it to be another balloon. It was the wrong time of day for a NWS radiosonde, in addition to the closest station being over 100 miles away and the light winds aloft, it wouldn't have made it downrange this far.

There were no loose pieces and/or parts fluttering around on either payload (until after burst), so I have no idea what this object is.

Any ideas?

Rog

3617. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 15:55:53 UTC
From: Harry M
Topic: 3616 Message: 3617
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Rog,

Grant KD5AFS also got a similar object in a pic at ORB launch.
It was the moon! The moon was at 57deg/253az at 0750 CDT.
If this pic doesn't come through, go look at the ORB-23 Post Flight page.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

3618. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 16:28:57 UTC
From: Keith Kaiser
Topic: 3616 Message: 3618
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3619. GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 16:32:33 UTC
From: Keith Kaiser
Topic: 3600 Message: 3619

GPSL'ers,

I had quite a few responses to the question about when to hold GPSL in 2008. Only one individual had an alternate date idea (Jul 4-5-6), but several commented they liked the proposed dates for a number of different reasons. So with all that said, we are going to lock in July 31, to August 3, 2008 as the official dates for GPSL 2008.

The extra day did generate a few comments but mostly they centered around what we will do with the extra time. The number one concern being that we didn't just use the extra day to spread out what we already do. At this point Thursday, July 31 is tentatively to be used as a static display and workshop day. We hope to have displays from NOAA, FAA, CAP, NASA, Garmin, and others, if you have a display or workshop you would like to propose or do yourself please let me know. If you have other ideas about Thursday and I can think of a bunch, let me know that too.

Proposed:
July 31 -- Static Displays, Workshops, astronomy night?
Aug 01 -- Conference presentations, flight briefing
Aug 02 -- Launch, recovery, debrief
Aug 03 -- Weather Date, departure

Location is our next assignment, now that the dates are locked it will be much easier for us to find the host site for the event. Please visit nearspaceventures.com/gpsl2008/ from time to time and watch your e-Mail for updates on this and other details about next year.

If you would like to help with GPSL 2008 in almost any capacity, please contact me and I'll put you to work....trust me.

Our goals for 2008 are lofty, as they should be given what we do (launch high altitude balloons) and we are going to work hard to make this the best GPSL ever. This is a tall order, given that year after year the quality of the conference has gotten better and better, and last years was such a run-away success it will be doubly hard to beat. So aim high, stay in touch, keep an eye on the web site, put the dates on your calendar and grab hold of something....we're about to take you 20 miles up.

Kansas City or Burst!

--
YIS/YIV/73's!
Keith D Kaiser
Director, Near Space Ventures

nearspaceventures.com
bsaroundtable.com
kaiserklan.com

3620. Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 16:33:48 UTC
From: Ralph Wallio, W0RPK
Topic: 3620 Message: 3620

Roger --

CNNSP-9 was at 75kft ascending at 14:59:08. At this time the moon (from the payload at altitude)
was at 34.9d elevation and 270.3d azimuth. Lunar illumination was 67%.

My guess is that the object is the moon but it is smeared by payload rotation vs. shutter speed.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3621. RE: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 16:53:16 UTC
From: Roger Hammond
Topic: 3616 Message: 3621

With the partially obscured sky yesterday, it didn't even cross my mind that it was likely the moon.
Thanks to all who responded.

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Monday, September 03, 2007 10:56 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] mystery object

Hi Rog,

Grant KD5AFS also got a similar object in a pic at ORB launch.
It was the moon! The moon was at 57deg/253az at 0750 CDT.
If this pic doesn't come through, go look at the ORB-23 Post Flight page.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members. <http://members.cox.net/hhm_74775/orb/>
cox.net/hhm_74775/orb/
Discussion - http://groups.
<http://groups.yahoo.com/group/oklahoma_research_balloons/join>
yahoo.com/group/oklahoma_research_balloons/join

3622. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 17:34:02 UTC
From: Joe
Topic: 3616 Message: 3622

I don't think it's the Moon though. what it actually is i don't have a clue but for two reasons I don't think it's the moon,

1- it's TOO white,, the moon in daylight is very pale in color, just like in the example photo of the moon and balloon in the same shot. I've taught astronomy for 40+ years and am a Avid Astronomer and i have never seen the moon this pure and bright white in daylight.

2- it's WAY too large of an image. that image size would be at least a 100 mm lens if not longer,, and i doubt if anything like that was flown on a payload.

Joe

Keith Kaiser wrote:

> NSV has caught the moon on at least two trips and once we even
> captured a meteor trail, very cool. We should get groups who have
> captured in photos other flying objects to post them on the yahoo
> group web page, that might be fun.
>
> On 9/3/07, Harry M <hhm_74115@... <mailto:hhm_74115@...>> wrote:
>
> Hi Rog,
>
> Grant KD5AFS also got a similar object in a pic at ORB launch.
> It was the moon! The moon was at 57deg/253az at 0750 CDT.
> If this pic doesn't come through, go look at the ORB-23 Post
> Flight page.
>
>
> 73 Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion -
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> -----
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>
> --
> YIS/YIV/73's!

> Keith D Kaiser
> nearspaceventures.com <http://nearspaceventures.com>
> bsaroundtable.com <http://bsaroundtable.com>
> kaiserklan.com <http://kaiserklan.com>

3623. RE: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 17:35:51 UTC
From: Roger Hammond
Topic: 3616 Message: 3623

Hmmm...the plot thickens.

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Monday, September 03, 2007 12:34 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] mystery object

I don't think it's the Moon though. what it actually is i don't have a clue but for two reasons I don't think it's the moon,

1- it's TOO white,, the moon in daylight is very pale in color, just like in the example photo of the moon and balloon in the same shot. I've taught astronomy for 40+ years and am a Avid Astronomer and i have never seen the moon this pure and bright white in daylight.

2- it's WAY too large of an image. that image size would be at least a 100 mm lens if not longer,, and i doubt if anything like that was flown on a payload.

Joe

Keith Kaiser wrote:

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On 9/3/07, Harry M <hhm_74115@cox. <mailto:hhm_74115@...> net> wrote:

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It was the moon! The moon was at 57deg/253az at 0750 CDT.
If this pic doesn't come through, go look at the ORB-23 Post Flight page.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members. <http://members.cox.net/hhm_74775/orb/>
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--
YIS/YIV/73's!
Keith D Kaiser
nearspaceventures. <http://nearspaceventures.com> com
bsaroundtable. <http://bsaroundtable.com> com
kaiserklan.com

3624. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 17:53:02 UTC
From: Harry M
Topic: 3616 Message: 3624

As we see the moon from the suface, yes the moon is pale & yellow due to atmospheric haze. Get above the haze layer, which is usually around 2k-4k ft around Oklahoma and the moon is white.

I have seen this while night flying in a private plane and I have pics from other Balloon flights at altitude that show the same size/color of the moon as Rogers.

I too am an amateur astronomer.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3625. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 17:58:54 UTC
From: Ralph Wallio, W0RPK
Topic: 3616 Message: 3625

Thanks Joe --

Do your thoughts about color temperature for the moon factor in the difference in Atmospheric Mass
(AM) between the surface and 75kft? On the surface with lunar elevation at ~40d AM is ~1.5. At
75kft AM is 0.0332. The color temperature at altitude would be substantially hotter approaching
pure white.

-- Ralph W0RPK

3626. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 18:25:28 UTC
From: Joe
Topic: 3616 Message: 3626

Ok,, that one i'll agree with, diddn't think of that.

best thing to test on image size is to take a shot of the moon now
well tomorrow,, it's up after sunrise and will set close to quarter
to 3 or so. take a shot with the same camera and compare image sizes.

Joe

Ralph Wallio, W0RPK wrote:

>Thanks Joe --
>
>Do your thoughts about color temperature for the moon factor in the difference in
Atmospheric Mass
>(AM) between the surface and 75kft? On the surface with lunar elevation at ~40d AM is
~1.5. At
>75kft AM is 0.0332. The color temperature at altitude would be substantially hotter
approaching
>pure white.
>
>-- Ralph W0RPK
>
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>
>Yahoo! Groups Links
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3627. Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 18:46:22 UTC
From: Mark Conner
Topic: 3616 Message: 3627

Roger,

Was the image you sent a cropped image or the full frame?

My money is on it being the moon, but failing that, perhaps it's a
lens flare or a piece of dust on the lens that was lit just right.

If the camera was in autofocus mode, it likely had difficulty with the
focusing since it had a blank sky for a target - it it was out of
focus that would enlarge the appearance of the moon in the frame.

73 de Mark N9XTN

On 9/3/07, Roger Hammond <rahammond@...> wrote:
>
>
>
>
>
>
>
> The payload camera on CNNSP-09 took a little over 200 pictures yesterday, before the batteries died. I installed a brand new 1GB card and the timer was set for a photo every 30 seconds, unfortunately I forgot to turn off the flash, and the batteries did the best they could.
>
> This picture that was taken ascending through 75,000 feet, has me a little puzzled. There's an object that showed up in the upper right portion of the screen. If this had been a multi-balloon launch, I would have thought it to be another balloon. It was the wrong time of day for a NWS radiosonde, in addition to the closest station being over 100 miles away and the light winds aloft, it wouldn't have made it downrange this far.
>
> There were no loose pieces and/or parts fluttering around on either payload (until after burst), so I have no idea what this object is.
>
> Any ideas?
>

3628. RE: [GPSL] Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 18:52:07 UTC
From: Roger Hammond
Topic: 3616 Message: 3628

No, the image was not cropped, just reduced in size.

Rog

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mark Conner
Sent: Monday, September 03, 2007 1:46 PM
Cc: GPSL list; KNSP List
Subject: [GPSL] Re: [KNSP] mystery object

Roger,

Was the image you sent a cropped image or the full frame?

My money is on it being the moon, but failing that, perhaps it's a lens flare or a piece of dust on the lens that was lit just right.

If the camera was in autofocus mode, it likely had difficulty with the focusing since it had a blank sky for a target - it it was out of focus that would enlarge the appearance of the moon in the frame.

73 de Mark N9XTN

On 9/3/07, Roger Hammond <rahammond@charter.
<mailto:rahammond%40charter.net> net> wrote:
>
>
>
>
>
>
>
> The payload camera on CNNSP-09 took a little over 200 pictures yesterday, before the batteries died. I installed a brand new 1GB card and the timer was set for a photo every 30 seconds, unfortunately I forgot to turn off the flash, and the batteries did the best they could.
>
> This picture that was taken ascending through 75,000 feet, has me a little puzzled. There's an object that showed up in the upper right portion of the screen. If this had been a multi-balloon launch, I would have thought it to be another balloon. It was the wrong time of day for a NWS radiosonde, in addition to the closest station being over 100 miles away and the light winds aloft, it wouldn't have made it downrange this far.
>
> There were no loose pieces and/or parts fluttering around on either payload (until after burst), so I have no idea what this object is.

>
> Any ideas?
>

3629. Re: [GPSL] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 22:08:28 UTC
From: Mike Manes
Topic: 3616 Message: 3629

Hi Joe,

You sure?

1. You've never seen the moon thru a telescope from 75,000' MSL,
I betcha. The sky's a lot darker at 30 mbar palt.

2. The moon subtends about 0.5 degrees, and that image covers
about 1% of the width of the foto which prolly had a 50 deg FOV.

73 de Mike W5VSI, EOSS

Joe wrote:
>
>
> I don't think it's the Moon though. what it actually is i don't have a
> clue but for two reasons I don't think it's the moon,
>
> 1- it's TOO white,, the moon in daylight is very pale in color, just
> like in the example photo of the moon and balloon in the same shot.
> I've taught astronomy for 40+ years and am a Avid Astronomer and i have
> never seen the moon this pure and bright white in daylight.
>
> 2- it's WAY too large of an image. that image size would be at least
> a 100 mm lens if not longer,, and i doubt if anything like that was
> flown on a payload.
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> Joe
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> Keith Kaiser wrote:
>
>> NSV has caught the moon on at least two trips and once we even
>> captured a meteor trail, very cool. We should get groups who have
>> captured in photos other flying objects to post them on the yahoo
>> group web page, that might be fun.
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>> On 9/3/07, *Harry M* <hhm_74115@... <mailto:hhm_74115@...>>
>> wrote:
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>> Hi Rog,
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>> Grant KD5AFS also got a similar object in a pic at ORB launch.
>> It was the moon! The moon was at 57deg/253az at 0750 CDT.
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>> 73 Harry
>>
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>> Harry Mueller - KC5TRB - Tulsa
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>> nearspaceventures.com <http://nearspaceventures.com>
>> bsaroundtable.com <http://bsaroundtable.com>
>> kaiserklan.com <http://kaiserklan.com>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3630. Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-03 21:34:23 UTC
From: Mike Manes
Topic: 3616 Message: 3630

Hi Rog,

Well, shux, man, that's just another of them pesky UFOs that
always seem to get curious as a cat about our balloons :=P

It's good to see that my new email address has taken on these
reflectors.

73 de Mike W5VSI, EOSS

Roger Hammond wrote:
>
>
> The payload camera on CNNSP-09 took a little over 200 pictures
> yesterday, before the batteries died. I installed a brand new 1GB card
> and the timer was set for a photo every 30 seconds, unfortunately I
> forgot to turn off the flash, and the batteries did the best they could.
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> This picture that was taken ascending through 75,000 feet, has me
> a little puzzled. There's an object that showed up in the upper right
> portion of the screen. If this had been a multi-balloon launch, I would
> have thought it to be another balloon. It was the wrong time of day for
> a NWS radiosonde, in addition to the closest station being over 100
> miles away and the light winds aloft, it wouldn't have made it downrange
> this far.
>
> There were no loose pieces and/or parts fluttering around on either
> payload (until after burst), so I have no idea what this object is.
>
> Any ideas?
>
> Rog
>
> ---
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3631. Re: [GPSL] GPSL 2008 Dates

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 13:42:53 UTC
From: PAUL VERHAGE
Topic: 3600 Message: 3631

I would be interested in doing a BalloonSat workshop.

Paul

>>> "Keith Kaiser" <keith.kaiser@...> 9/3/2007 10:32 AM >>>
GPSL'ers,

I had quite a few responses to the question about when to hold GPSL in 2008. Only one individual had an alternate date idea (Jul 4-5-6), but several commented they liked the proposed dates for a number of different reasons. So with all that said, we are going to lock in July 31, to August 3, 2008 as the official dates for GPSL 2008.

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Proposed:
July 31 -- Static Displays, Workshops, astronomy night?
Aug 01 -- Conference presentations, flight briefing
Aug 02 -- Launch, recovery, debrief
Aug 03 -- Weather Date, departure

Location is our next assignment, now that the dates are locked it will be much easier for us to find the host site for the event. Please visit nearspaceventures.com/gpsl2008/ from time to time and watch your e-Mail for updates on this and other details about next year.

If you would like to help with GPSL 2008 in almost any capacity, please contact me and I'll put you to work....trust me.

Our goals for 2008 are lofty, as they should be given what we do (launch high altitude balloons) and we are going to work hard to make this the best GPSL ever. This is a tall order, given that year after year the quality of the conference has gotten better and better, and last years was such a run-away success it will be doubly hard to beat. So aim high, stay in touch, keep an eye on the web site, put the dates on your calendar and grab hold of something....we're about to take you 20 miles up.

Kansas City or Burst!

--
YIS/YIV/73's!
Keith D Kaiser
Director, Near Space Ventures
nearspaceventures.com
bsaroundtable.com
kaiserklan.com

Yahoo! Groups Links

3632. GPSL 2008 Workshop ideas

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 18:42:37 UTC
From: wb8elk@aol.com
Topic: 3632 Message: 3632

Those dates will work for me as well....I can also do some Workshop sessions as well....Sounds like a good use of the extra day if there's enough interest in doing this.

Some topics that come to mind that I could help with and I'm sure there would be others who can volunteer for some of these ideas:

- Bringing Near Space to the classroom (experiment ideas and electronic sensors - how to get schools involved)....can range from elementary to college level).

- Balloon Tracking 101:
(Hands-on DF demo and Foxhunt - build your own low power tracking beacon)
(How to setup and use various APRS programs for balloons)
(Flight Path prediction how-to: Balloon Track, HYSPLIT, Web-Based Balloon Track, calculating helium fill for ascent rate and parachute calcs for descent rate)

- Payload enclosure design and techniques: (how to build foam-core, attachment and flight train techniques...mechanical considerations - enclosure ideas)

- Power systems for Balloons: (Battery technologies, how to calculate power budget, wiring methods and techniques.)

- Using Zigbee and other low power RF systems for interpayload communications....to include using 900 MHz spread spectrum radios for high-speed data with the ground station and how to set them up.

- Long Duration ballooning how-to: Solar, Zero-pressure and Super-pressure design considerations and how to calculate performance. How-to build your own balloon.

- ATV systems and setup....payload design and hands-on ground station design.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3633. Re: [GPSL] GPSL 2008 Workshop ideas

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 19:22:10 UTC
From: Robert Rochte
Topic: 3632 Message: 3633
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3634. Steve Fossett's aircraft missing

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 19:49:05 UTC
From: mconner1@gmail.com
Topic: 3634 Message: 3634

Thought I'd pass this along, as many on here are aviation/manned ballooning buffs too. Hopefully he'll be found safe.

73 de Mark N9XTN

http://www.foxnews.com/story/0,2933,295714,00.html

Rescue crews are searching for the plane of aviation adventurer Steve Fossett, who disappeared after takeoff from a private airstrip in Nevada Monday morning.

3635. Re: [GPSL] GPSL 2008 Workshop ideas

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 20:12:18 UTC
From: Keith Kaiser
Topic: 3632 Message: 3635
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3636. Sputnik

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 23:53:32 UTC
From: Joe
Topic: 3636 Message: 3636

Hi All,, with the 50th anniversary of spitnik coming up shortly. I have been looking at that little sphere.

And was wondering what the radiation pattern was from that thing.

Anyone know?

or anyone want to model it?

Joe

3637. Re: [GPSL] Steve Fossett's aircraft missing

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-05 01:02:05 UTC
From: Mike Manes
Topic: 3634 Message: 3637

Hi Mark,
Just heard about that on NPR and BBC this AM. Bummer! The news report quoted an FAA guy as saying CAP was searching several hundred sq mi of terrain. Guess he didn't have an ELT or a VFR flight plan filed?
73 de Mike W5VSI

mconner1@... wrote:
> Thought I'd pass this along, as many on here are aviation/manned ballooning buffs too. Hopefully he'll be found safe.
>
> 73 de Mark N9XTN
>
> http://www.foxnews.com/story/0,2933,295714,00.html
>
> Rescue crews are searching for the plane of aviation adventurer Steve Fossett, who disappeared after takeoff from a private airstrip in Nevada Monday morning.
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3638. Re: [GPSL] Steve Fossett's aircraft missing

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-05 13:24:03 UTC
From: PAUL VERHAGE
Topic: 3634 Message: 3638

I heard this morning that he didn't file a flight plan. It's going to be tough to find him when you don't know where to look.

Paul

>>> Mike Manes <mrmanes@...> 9/4/2007 7:02 PM >>>
Hi Mark,
Just heard about that on NPR and BBC this AM. Bummer! The news
report quoted an FAA guy as saying CAP was searching several
hundred sq mi of terrain. Guess he didn't have an ELT or a
VFR flight plan filed?
73 de Mike W5VSI

mconner1@... wrote:
> Thought I'd pass this along, as many on here are aviation/manned
ballooning buffs too. Hopefully he'll be found safe.
>
> 73 de Mark N9XTN
>
> http://www.foxnews.com/story/0,2933,295714,00.html
>
> Rescue crews are searching for the plane of aviation adventurer
Steve Fossett, who disappeared after takeoff from a private
airstrip in Nevada Monday morning.
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

3639. Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-05 13:37:38 UTC
From: Pete Lilja
Topic: 3620 Message: 3639

I'm planning to use a Beeline 70cm GPS transmitter in my first balloon flight. http://www.bigredbee.com/BeeLineGPS.htm I have the unit as I hope to also use it in another hobby of launching high powered rockets.

I've built a 1/4 wave antenna - nothing fancy, simply a plan from an ARRL book using an SO-239 cabinet connector. I've ground tested it with a Beeline RDF transmitter to about three miles and still had a good signal. Beyond that the terrain and the trees got in the way. My problem is that I'm in realtively flat Iowa and can't think of a good way to get some real, quality range testing short of an actual balloon flight. Any ideas?

I'd really rather not risk my transmiiters and cameras on a HAB flight without testing the antenna.

Thanks,

Pete
KCØGPB

3640. [GPSL] Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-05 14:23:31 UTC
From: PAUL VERHAGE
Topic: 3620 Message: 3640
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3641. Latest Tulsa He Prices

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-05 16:07:35 UTC
From: Harry M
Topic: 3641 Message: 3641

FYI

Here are the latest Tulsa He prices.
I was told to call ahead for availability.
Right now it's not a problem.

291 cu/ft - $84
219/244 cu/ft - $70
125 cu/ft - $40
80 cu/ft - $35

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/

3642. Re: [GPSL] Re: [KNSP] mystery object

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-06 01:55:11 UTC
From: Brek Brixius
Topic: 3620 Message: 3642

Fly the Beeline on a nice big kite. :) That is my suggestion. Be sure to use some good strong line (like dacron). Also pick a nice stable kite (not a stunter). Delta-Conyne are decent lifters and pretty stable.

Unless you get a very big kite you probably won't be able to lift the entire package but the beeline is pretty light if I remember right. I fly a 7 foot Delta-Conyne that carries a light digital camera. I would probably look at something in the 9 foot range for the Beeline (depending on your antenna).

I don't know if there would be a problem with building up a charge on such a flight. I have heard something about kite lifted antenna building up static. You might want to look here:
http://www.wireservices.com/n9zrt/live-wire/events/marconi/kitefaq.html
for advice. I would think that if you limit airflow around the antenna (like mount it behind the kite - it might help reduce the static buildup). Just a guess there though. Study up before you try anything.

Keep us informed about how the beeline performs. It is a very interesting device.

Good luck
Brek - KC0YOE

PAUL VERHAGE <paul.verhage@...> wrote:
Try flying with someone else's balloon. That would give you a test with a proven back up tracker.

Paul

>>> "Pete Lilja"
9/5/2007 7:37 AM >>>

I'm planning to use a Beeline 70cm GPS transmitter in my first balloon flight.
http://www.bigredbee.com/BeeLineGPS.htm I have the unit as I hope to also use it in another hobby of launching high powered rockets.

I've built a 1/4 wave antenna - nothing fancy, simply a plan from an ARRL book using an SO-239 cabinet connector. I've ground tested it with a Beeline RDF transmitter to about three miles and still had a good signal. Beyond that the terrain and the trees got in the way. My problem is that I'm in realtively flat Iowa and can't think of a good way to get some real, quality range testing short of an actual balloon flight. Any ideas?

I'd really rather not risk my transmiiters and cameras on a HAB flight without testing the antenna.

Thanks,

Pete
KC?GPB

Be a better Heartthrob. Get better relationship answers from someone who knows.
Yahoo! Answers - Check it out.

3643. Kites for testing payloads and parachutes

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-06 05:15:43 UTC
From: wb8elk@aol.com
Topic: 3643 Message: 3643

I fly a 14-foot Delta-Conyne kite (Sun Oak kites)....it can lift several pounds and I have had it up 1000 feet or more....just remember that you'll need a lot more kite string than that to get it to such heights and be careful not to overfly power lines for high flights since if the wind does die out, it'll come down faster than you can wind in the string unless you have a motor-powered winder. I'd recommend starting out with just a few hundred feet at first and about 400 feet up ought to be sufficient for a range test.

The kite I use is listed as the 14-foot Compound kite on their website:

http://www.sunoaktradingpost.com/compoundsnow.html
(http://www.sunoaktradingpost.com/compoundsnow.html)

With a good wind, you can probably carry up a useful payload with their smaller 9-foot Delta-Conyne as well.

It's an extremely stable kite and can handle a wide range of wind conditions. It's extremely easy to assemble it and it rolls up into a compact space.

I've flown ATV with live camera and had reports out to 50 miles from it....so that would be a good test. A kite is also a good way to test out drop tests of new payload, parachute or glider designs.

I'd recommend braided kite string...at least 250 pound test for that large of a kite. With several hundred feet of kite string, you'll find that it's a good idea to rig up a kite winder....I use one of those garden hose winders that has wheels on it and hold it down with sand bags. I've seen some folks rig up an electric motor-powered winder as well.

I replaced the wood spars on the kite with carbon fiber tubing which allows me to lift an additional pound or two of payload.

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3644. Re: [GPSL] Kites for testing payloads and parachutes

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-06 05:36:16 UTC
From: wb8elk@aol.com
Topic: 3643 Message: 3644

Some more kite resources....this is a good source for kite and BALLOON string:

I use their Crankmaster Reel (highly recommended) for my big kite when not using my garden hose winder.

_http://www.intothewind.com/shop/Line_and_Accessories/Bulk_Line_and_Reels_for_Traditional_Kites_ (http://www.intothewind.com/shop/Line_and_Accessories/Bulk_Line_and_Reels_for_Traditional_Kites)

Also....for balloons and kites....you might want to consider Paracord which comes in a variety of colors....I forget where I got my last batch of this stuff, but found a place that does a variety of colored paracord on the internet:

http://www.vtarmynavy.com/para-cord.htm (http://www.vtarmynavy.com/para-cord.htm)

- Bill WB8ELK

********** Get a sneak peek of the all-new AOL at http://discover.aol.com/memed/aolcom30tour

3645. Re: [GPSL] Kites for testing payloads and parachutes

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-06 06:45:49 UTC
From: Art
Topic: 3643 Message: 3645

Bill and the group,

There are very good winders on the market, if you have 40 dollars or more.

However, there is a very superior winder that is cheap. It is plastic with steel bearings and is smooth as silk, winds fast and comes in 3 sizes. The smaller size holds 650 feet of 30 pound test. The larger sizes hold much more.

I bought one from a US distributor and liked it so much I bought 2 more!

Here is a picture of it, look at the blue winder at the bottom of the page. Your hand grips in the center of the hub and you wind the outside of the reel with a handle that folds in when not in use. The little gizmo that protrudes at about 4 o clock in the photo is the eyelet that the line threads through.

http://www.airdynamics.co.uk/chinese_accessories.html

My 10 year old daughter loves them too!

If anyone is interested, I can look up the US distributor if you like.

Regards,

Art

>I fly a 14-foot Delta-Conyne kite (Sun Oak kites)....it can lift
>several pounds and I have had it up 1000 feet or more....just
>remember that you'll need a lot more kite string than that to get it
>to such heights and be careful not to overfly power lines for high
>flights since if the wind does die out, it'll come down faster than
>you can wind in the string unless you have a motor-powered winder.
>I'd recommend starting out with just a few hundred feet at first and
>about 400 feet up ought to be sufficient for a range test.
>
>The kite I use is listed as the 14-foot Compound kite on their website:
>
><http://www.sunoaktradingpost.com/compoundsnow.html>http://www.sunoaktradingpost.com/compoundsnow.html
>
>With a good wind, you can probably carry up a useful payload with
>their smaller 9-foot Delta-Conyne as well.
>
>It's an extremely stable kite and can handle a wide range of wind
>conditions. It's extremely easy to assemble it and it rolls up into
>a compact space.

>
>I've flown ATV with live camera and had reports out to 50 miles from
>it....so that would be a good test. A kite is also a good way to
>test out drop tests of new payload, parachute or glider designs.
>
>I'd recommend braided kite string...at least 250 pound test for that
>large of a kite. With several hundred feet of kite string, you'll
>find that it's a good idea to rig up a kite winder....I use one of
>those garden hose winders that has wheels on it and hold it down
>with sand bags. I've seen some folks rig up an electric
>motor-powered winder as well.
>
>I replaced the wood spars on the kite with carbon fiber tubing which
>allows me to lift an additional pound or two of payload.
>
>- Bill WB8ELK
>
>
>
>
>
>
>----------
>Get a sneak peek of the all-new
><http://discover.aol.com/memed/aolcom30tour/?ncid=AOLAOF00020000000982>AOL.com.
>
>No virus found in this incoming message.
>Checked by AVG Free Edition.
>Version: 7.5.485 / Virus Database: 269.13.5/990 - Release Date:
>9/4/2007 10:36 PM

3646. Re: [GPSL] Kites for testing payloads and parachutes

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-06 13:39:44 UTC
From: PAUL VERHAGE
Topic: 3643 Message: 3646
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3647. EOSS-002, CBS.jpg (JPEG Image, 1720x1136 pixels) - Scaled (49%)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 03:15:29 UTC
From: Mike Manes
Topic: 3647 Message: 3647

Hi Guys,

Here's a neat pix of the Mar 1991 EOSS-2 landing just NW of Ft Collins CO.
This was perhaps the first of many PBC messes that eventually led up
to the fast release device. The girl in photo is Slate N0TQN's daughter,
I assume; she's 16 years older now (so am I, come to think of it).

I don't recall ever seeing a blue parachute, despite the fact that EOSS-2
was the first EOSS launch that I participated in; I'm a bit more
observant now :=}.

73 de Mike W5VSI

http://rslate.com/eoss/eoss-002_photo_with_comment/EOSS-002,%20CBS.jpg
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3648. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 06:22:11 UTC
From: Mike Manes
Topic: 3502 Message: 3648

Hey Paul,

Give credit to the Thunderidge HS principal who drafted that tag onto
EOSS back in our salad days on EOSS-3(?) IIRC. Rick N0KKZ has the details.

Eliot Young of SWRI might have some ideas how to get NASABucks for
such projects.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> Starting in September I'll begin a column called The Poorman's Space Program for the Society of Amateur Scientists (teir online magazine is called The Citizen Scientist). I'd like to set up a procedure to get experiments up on balloons and I'm looking for ideas.
>
> Is there a preferred way to have someone design an experiment (to some specification) and then put it on a list for a lift? I envision something like the old Get Away Specials that NASA use to do with the Shuttle.
>
> I'm thinking it would be designd like a BalloonSat and that the experimenter would be responsible for paying for a share of the helium and balloon cost. The experimenter would also have to pay for ground shipping te BalloonSat and acceptable the risk that it could get lost or damaged. There would have to be a central website where experiments get listed that groups could consult.
>
> So anyhow, if you have any input please share it.
>
> Thanks,
> Paul
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3649. New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 14:08:23 UTC
From: PAUL VERHAGE
Topic: 3502 Message: 3649

Okay, the new column is finally started. You can read it online at, http://www.sas.org/tcs/

My next goal is to get more people designing BalloonSats. I hope we can set up a process where people can arrange to get them launched.

So issues I need to resolve....

What kind of cost should be involved with helping people launch experiments? Could we charge per pound of payload and how much? As amateurs, we can't make money with radio, but we could at least take care of our costs.

I suspect members would not want to see the GPSL email list become a place where schools and amateurs ask for a near space lift. Is that right? I could set up another email list if necessary. Would current ARHAB groups be interested in subscribing top that list and helping launch?

I'd also like to get other ideas.

Thanks everyone,
Paul

3650. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 14:37:43 UTC
From: mconner1@gmail.com
Topic: 3502 Message: 3650
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3651. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 15:25:19 UTC
From: plilja@cfu.net
Topic: 3502 Message: 3651

This is very cool and a terrific idea. I'm a budding HABist and am trying to learn as much as I can before my first flight. I appreciate the effort here, Paul.

Looking forward to seeing what you have planned for future installments. How often can we expect to see new stuff within your column?

Thanks,

Pete
KCØGPB

Quoting PAUL VERHAGE <paul.verhage@boiseschools.org>:

> Okay, the new column is finally started. You can read it online at,
> http://www.sas.org/tcs/
>

3652. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 15:33:12 UTC
From: PAUL VERHAGE
Topic: 3502 Message: 3652

The column is monthly. Next month is on FAR 101. After that, I'm
putting my BalloonSat book there.

Paul

>>> <plilja@...> 9/10/2007 9:25 AM >>>
This is very cool and a terrific idea. I'm a budding HABist and am
trying to learn as much as I can before my first flight. I appreciate

the effort here, Paul.

Looking forward to seeing what you have planned for future
installments. How often can we expect to see new stuff within your
column?

Thanks,

Pete
KCØGPB

Quoting PAUL VERHAGE <paul.verhage@...>:

> Okay, the new column is finally started. You can read it online at,

> http://www.sas.org/tcs/
>

Yahoo! Groups Links

3653. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 20:39:31 UTC
From: wb8elk@aol.com
Topic: 3502 Message: 3653

Paul,

I have Balloonsat.org. Let me know more about setting up things for this
and I can forward it to any URL address.....I can also put up to 5 mB of
storage on the site which is free for the year (except the annual domain renewal)
unless I go over that memory storage.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3654. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 21:45:37 UTC
From: Joe Lynch
Topic: 3502 Message: 3654

Dear Colleagues,

Regarding compensation, I took the liberty to contact my friend Chris Imlay, W3KD, ARRL's FCC attorney. Here is his answer to my question; both appearing below:

Hi Chris,

I thought that I would ask the expert on the question of compensation. A group of hams who are helium balloon satellite ethusiasts are wanting to assist others in launching payloads on their balloons. Their understanding is that they can only be compensated for reimbursement of expenses involved in the launch. My question concerns whether or not the FCC prohibition regarding compensation covers launching balloons and/or reimbursing automobile drivers for gas expenses for their chase vehicles.

Thank you for your assistance.

Chris' response:

Offhand, I think neither case constitutes a violation of Section 97.113. That rule section refers to communications for hire or for material compensation, direct or indirect. So the question, really is what is being reimbursed. If it is not communications being furnished for money, it is not prohibited compensation. In your example, it would seem to me that what is being furnished is not communications, but rather balloon launches and chase vehicles for balloons. This is aside from the question of whether or not reimbursement of expenses constitutes "compensation". There is an argument that it does, but here, it is not reimbursement provided for the expenses of buying a radio, or for an antenna, or something directly related to the Amateur Radio communications. It is, rather for something completely unrelated to the communications; furnishing a chase vehicle for balloon recovery or for the cost of launching a balloon which incidentally carries amateur radio equipment is
not really the type of circumstance that Section 97.113 was intended to prevent.

The FCC takes a rather strict interpretation of the rules, so as to provide maximum flexibility. Section 97.113 was formerly a very strict rule, but it was liberalized some years ago to facilitate experimentation in the Amateur Service.

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3655. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 21:55:14 UTC
From: PAUL VERHAGE
Topic: 3502 Message: 3655
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3656. Fall 2007 issue of Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-10 23:08:11 UTC
From: Gene Harlan
Topic: 3656 Message: 3656

Just a heads up that articles for the Fall 2007 issue of Amateur Television Quarterly will be due October 1st.

Tell us about what your local group has been doing this summer.

Have you built anything recently? Write about it!

Worked some good ATV DX? Write about it!

Worked ATV mobile this summer? Write about it!

Used ATV in a balloon? Write about it!

Well, you get the idea. Share your ATV experiences with others through Amateur Television Quarterly. Others will enjoy what you have to say.

Thanks to all who have done so in the past.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

3657. Re: [Ballooning] Fall 2007 issue of Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-11 00:31:45 UTC
From: Joe
Topic: 3656 Message: 3657

Gene,

Coming up for "October Skies"?

Gene Harlan wrote:

> Just a heads up that articles for the Fall 2007 issue of Amateur
> Television Quarterly will be due October 1st.
>
> Tell us about what your local group has been doing this summer.
>
> Have you built anything recently? Write about it!
>
> Worked some good ATV DX? Write about it!
>
> Worked ATV mobile this summer? Write about it!
>
> Used ATV in a balloon? Write about it!
>
> Well, you get the idea. Share your ATV experiences with others through
> Amateur Television Quarterly. Others will enjoy what you have to say.
>
> Thanks to all who have done so in the past.
>
> Gene Harlan - WB9MMM
> Name Tags by Gene
> Harlan Technologies - publisher of Amateur Television Quarterly
> http://www.hampubs.com <http://www.hampubs.com/>
> atvq@... <mailto:atvq@...>
> 815-398-2683 - voice
> 815-398-2688 - fax
>

3658. EOSRED -MAINE projects

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-11 03:57:04 UTC
From: lt
Topic: 3658 Message: 3658

Hello everyone its been a extremely busy summer sence the GPSL and
It was great to meet you all and jion the fun in launching one with
you all .I cant wait until next time.
But know Im prepareing for the next one.

NAME:EOS-4,MAINE

PRI/SSID APRS: EOS-4 or W1LWT-4

DATE: OCT 20th

Time : 1200 noon +- 30 minutes to T time

GOAL: 200 miles into the ocean sea's at 80,000 foot height with a
floatation package and chute and balloon release in the water.

EVENT FROM launch area: 2007 BSA JOTA/JOTI week end

Mission: To show the boyscouts and others HAM Radio and science
research is fun from a hobby veiw when shared with all.

CHeck us out and email me with any heard or seen tracking
information.

Check out the YAHOO GROUPS -----W1LWT and EOSRED for weekly up
dates.

73's to ALL

LEE- W1LWT

EOSRED --Project Manager

3659. Re: [GPSL] EOSRED -MAINE projects

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-11 04:46:51 UTC
From: Joe Lynch
Topic: 3658 Message: 3659

Hi Lee,

I invite you to write up your launches for publication in my column in CQ magazine or as a separate article in CQ VHF magazine. I am especially interested in giving publicity to your JOTA launch because of its youth emphasis. You may contact me directly at n6cl@.... Thank you.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3660. Re: [GPSL] EOSRED -MAINE projects

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-11 12:14:31 UTC
From: Keith Kaiser
Topic: 3658 Message: 3660
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3661. Re: [GPSL] New Column

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-11 22:11:32 UTC
From: Mike Manes
Topic: 3502 Message: 3661

Hi Paul,

EOSS has worked out an agreement with the organizations that we fly for
to reimburse us on a per-flight basis for the actual cost of latex and
gas, plus a percentage margin to cover other expendables, such as
lift line, batteries, portapotty rental, etc. And most agree to
reimburse mileage at the IRS charitable rate for folks who participate in
the flight, including mileage to fetch and return He bottles.

Where multiple organizations fly the same day, we prorate even steven.

Now, for "customers" who are as poor as we, like Boy Scouts, we do it
pro bono and fill out unused payload weight budget with our new payloads
that need flight quals.

73 de Mike W5VSI, EOSS

PS: It seems I'm registered twice on GPSL - and only one showed up
when I updated my email address. The other still uses my obsolescent
attglobal.net address and will start bouncing when I terminate that
service. Not sure who administers this group, and hope he notices
this addendum.

PAUL VERHAGE wrote:
> Okay, the new column is finally started. You can read it online at,
> http://www.sas.org/tcs/
>
> My next goal is to get more people designing BalloonSats. I hope we can
> set up a process where people can arrange to get them launched.
>
> So issues I need to resolve....
>
> What kind of cost should be involved with helping people launch
> experiments? Could we charge per pound of payload and how much? As
> amateurs, we can't make money with radio, but we could at least take
> care of our costs.
>
> I suspect members would not want to see the GPSL email list become
> a place where schools and amateurs ask for a near space lift. Is that
> right? I could set up another email list if necessary. Would current
> ARHAB groups be interested in subscribing top that list and helping launch?
>
> I'd also like to get other ideas.
>
> Thanks everyone,
> Paul

>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3662. Re: [GPSL] EOSRED -MAINE projects

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-11 23:02:38 UTC
From: Mike Manes
Topic: 3658 Message: 3662

Hi Lee,

Hey, hope you have better luck on recovery than you did at GPSL 07 :}.
CU in KC at GPSL 08.

73 de Mike W5VSI, EOSS
PS: Note new email address.

lt wrote:
> Hello everyone its been a extremely busy summer since the GPSL and
> It was great to meet you all and join the fun in launching one with
> you all .I cant wait until next time.
> But know I'm preparing for the next one.
>
>
> NAME:EOS-4,MAINE
>
> PRI/SSID APRS: EOS-4 or W1LWT-4
>
> DATE: OCT 20th
>
> Time : 1200 noon +- 30 minutes to T time
>
> GOAL: 200 miles into the ocean sea's at 80,000 foot height with a
> flotation package and chute and balloon release in the water.
>
> EVENT FROM launch area: 2007 BSA JOTA/JOTI week end
>
> Mission: To show the boy scouts and others HAM Radio and science
> research is fun from a hobby view when shared with all.
>
>
>
> CHeck us out and email me with any heard or seen tracking
> information.
>
> Check out the YAHOO GROUPS -----W1LWT and EOSRED for weekly up
> dates.
>
>
> 73's to ALL
>
>
> LEE- W1LWT
>
> EOSRED --Project Manager

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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3663. Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-04 00:08:57 UTC
From: Pete Lilja
Topic: 3663 Message: 3663

I'm planning to use a Beeline 70cm GPS transmitter in my first balloon flight. http://www.bigredbee.com/BeeLineGPS.htm I have the unit as I hope to also use it in another hobby of launching high powered rockets.

I've built a 1/4 wave antenna - nothing fancy, simply a plan from an ARRL book using an SO-239 cabinet connector. I've ground tested it with a Beeline RDF transmitter to about three miles and still had a good signal. Beyond that the terrain the trees got in the way. My problem is that I'm in realtively flat Iowa and can't think of a good way to get some real, quality range testing short of an actual balloon flight. Any ideas?

I'd really rather not risk my transmiiters and cameras on a HAB flight without testing the antenna.

Thanks,

Pete
KCØGPB

3664. Re: Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 02:29:50 UTC
From: k7rkt
Topic: 3663 Message: 3664

--- In GPSL@yahoogroups.com, "Pete Lilja" <plilja@...> wrote:
>
> I'm planning to use a Beeline 70cm GPS transmitter in my first balloon flight.
>
snip.....
>
> I'd really rather not risk my transmiiters and cameras on a HAB flight without testing the antenna.
>
> Thanks,
>
> Pete
> KCØGPB
>

Pete,

how about turn the power way down, figure out your limits with the reduced power, then scale up the distance mathematically with increased power? Just a thought.

(BTW, we got 20 miles line of site using the stock antenna on the BeeLine, home made 6-element yagi, and TH-D7 receiver)

Realistically, I think you're gonna have to fly it, or move out of Iowa ;)

Greg, BigRedBee LLC
K7RKT

3665. Re: [GPSL] Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 09:24:13 UTC
From: wb8elk@aol.com
Topic: 3663 Message: 3665

Hi Pete,

From what I can tell from the datasheet, the BigRedBee has a power output of approx 16 milliwatts (as long as you set it up on your config program to output the max power of 12 dBm).

I ran some pathloss calculations and under ideal conditions (line of sight) and a sensitive UHF ground station with preamp, you could possibly get 35 miles to a car with a mobile whip antenna, but probably more like 20 miles in practice. With a small yagi, you could possibly be able to hear it out to about 90 miles depending on your elevation angle....beyond that, you'd probably need a high gain yagi (14db gain or more). I'd recommend putting a preamp in line as well....I use the Advanced Receiver P432VDG - but be careful not to transmit into it. During one of KC8UCH's flights, he flew one of the BigRedBee's and I know some reports were from about 70 miles or so out, but the reporting station I know about was using a 15 dB gain antenna up about 80 feet at the time. I've flown 50 milliwatt 2 meter transmitters and they have been heard out to 400 miles at the noise level by stations with gain antennas....with the additional pathloss for the higher 440 band frequency combined with the lower power on the Big Red Bee, your range will be less than that. Keep in mind that you'll also want some fade margin above the noise level to get a good packet decode.

This would work great during the Summer months where the balloon stays pretty close in....but as you get further towards Fall and Winter, you can drift 100 to 200 miles downrange. Also, be aware that unless you have a ground station act as an internet packet gateway, you won't be hitting any digipeaters or showing up on the Internet on FindU.

Perhaps Greg K7RKT could tell you if there is an amplifier module option to boost the power?...I'd estimate that a 10 dB boost in power would work great for longer distance balloon flights.

I've experimented with the chip used on this for low power balloon beacons.....the Texas Instruments CC1050....it's a great chip that covers between 300 to 1000 MHz and can tune in 250 hz steps.....if anyone knows of something similar for the 2 meter bands, let me know...the closest I can think of for 2m are the chips by ICS but they are a pain to set up the frequency. Those chips are on the 2m beacons I use...Harry KC5TRB uses one of their chips (the fixed multiplier version) for his tracking beacon kit.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3666. Re: [GPSL] Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 13:30:45 UTC
From: Greg Clark
Topic: 3663 Message: 3666

On 9/12/07, wb8elk@... <wb8elk@...> wrote:
>

>Perhaps Greg K7RKT could tell you if there is an amplifier module option to boost >the power?...I'd estimate that a 10 dB boost in power would work great for longer >distance balloon flights.

Byonics sells a 5watt (!) amplifier for the MicroTrak that think will work very well -- just need to get some time to make the changes necessary on my end and do some testing. I don't think I'll get the full 5 watts, but 2-3 should be possible.
>
> I've experimented with the chip used on this for low power balloon
> beacons.....the Texas Instruments CC1050....it's a great chip that covers
> between > 300 to 1000 MHz and can tune in 250 hz steps....

That's the same one I using for the BeeLine products-- agreed -- nice chip. I've had it up and running at both 433 and 900 Mhz.

> .if anyone knows of something similar for the 2 meter bands, let me know

Check out the ADF7012 from analog devices. 50 Mhz to1 Ghz, +13dBm (I think). I've got a couple of 2 meter prototypes up and running, just need to get the output impedance matching network taken care of. It should also work nicely with the MicroAmp.

Greg K7RKT

3667. Re: [GPSL] Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 13:36:27 UTC
From: PAUL VERHAGE
Topic: 3663 Message: 3667
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3668. Idea for APRS buoy

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 17:17:42 UTC
From: mconner1@gmail.com
Topic: 3668 Message: 3668

This is a follow-on to some traffic on the APRSSIG and to KC8UCH's "buoy" from a couple weeks ago.....

Here's an approach I hadn't thought of for an APRS buoy to get it a little more reach. Use a balloon to hoist an antenna and lightweight feedline to a higher altitude (say, 50 or 100 ft) to increase its range over the water. The radio and battery could remain in a sealed package floating on the surface. You could make a fairly simple antenna by folding the coax braid back over the sheath for 1/4 wavelength, then attaching the balloon to the end of the center conductor.

I think you could do this with a modest-sized balloon, perhaps made of Mylar or something more durable than latex. Obviously the wind would tend to pull it along rather than just the water currents.

Now whether this would be considered a hazard to wildlife or water navigation is left as an exercise for the reader. It'd probably attract a lot of attention on the busier lakes. :)

73 de Mark N9XTN

Message: 5
Date: Tue, 11 Sep 2007 20:16:39 -0600
From: Joel Maslak <jmaslak-aprs@...>
Subject: Re: [aprssig] APRS buoy - transmit power and antenna?
To: TAPR APRS Mailing List <aprssig@...>
Message-ID: <B01E6097-84BB-4A76-B5E5-2B529F74AB5B@...>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed

There's also the possibility of multiple bouys, and possibly things
like suspending the antenna (and radio?) from a balloon tethered to
the bouy (or maybe I'm thinking of just an anchor!) if this is for an
event of some kind (I'd make at least the radio part floatable, and
design it so that when the balloon comes down the antenna will be at
least slightly above the water to make recovery easier).

3669. Re: [GPSL] Idea for APRS buoy

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 17:50:36 UTC
From: Robert Rochte
Topic: 3668 Message: 3669
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3670. Re: [GPSL] Re: Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 22:40:13 UTC
From: Mike Manes
Topic: 3663 Message: 3670

The biggest risk re flying a new beacon on a live ARHAB flight
isn't the radio range - that can be calculated easily using the
standard radar range equation (see ARRL handbook). The larger
risk is whether it will survive the low ambient temps, and
to a lesser extent, barometric pressure, plus the rigors of
PBC and a parachute drag.

If it still operates after cold-soaking in a zero F food freezer
for a few hours and after being kicked down a flight or two of
concrete stairs, then it's likely to live thru the flight. Another
new-payload bugaboo is EMC: if RF from the xmtr gets into the low
level sigs in the beacon generator or GPS; but that problem typically
shows up during terrestrial testing. Oh, and make sure the GPS will
keep a lock when its lying on its side looking north.

73 de Mike W5VSI, EOSS

k7rkt wrote:
>
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, "Pete
> Lilja" <plilja@...> wrote:
> >
> > I'm planning to use a Beeline 70cm GPS transmitter in my first
> balloon flight.
> >
> snip.....
> >
> > I'd really rather not risk my transmiiters and cameras on a HAB
> flight without testing the antenna.
> >
> > Thanks,
> >
> > Pete
> > KCØGPB
> >
>
> Pete,
>
> how about turn the power way down, figure out your limits with the
> reduced power, then scale up the distance mathematically with
> increased power? Just a thought.
>
> (BTW, we got 20 miles line of site using the stock antenna on the
> BeeLine, home made 6-element yagi, and TH-D7 receiver)
>

> Realistically, I think you're gonna have to fly it, or move out of
> Iowa ;)
>
> Greg, BigRedBee LLC
> K7RKT
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3671. [Fwd: [Ballooning] Irvington, NY High School Science Club]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 23:21:05 UTC
From: Mike Manes
Topic: 3671 Message: 3671

Perhaps some others in the wider ARHAB community might offer some
help to this upstate NY youngster?

73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [Ballooning] Irvington, NY High School Science Club
Date: Wed, 12 Sep 2007 16:01:57 -0000
From: alanstruth <alanstruth@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Dear All,
We are trying to execute a weather balloon experiment much like what
ANSR has done. We are finding it much more difficult than we imagined
when put the project together in concept. I'd like to talk to people
who have been involved in the ANSR effort, or others, that could help
us along in executing this project. Please respond to this email
address or email me at natestruth@...
<mailto:natestruth%40hotmail.com>. I can also be reached at
914-693-0031 after 4:00 PM EDT for voice communication. Thanks so much.
Nathan Struth, 11th Grade.

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3672. Re: [GPSL] Idea for APRS buoy

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-12 23:34:29 UTC
From: Mike Manes
Topic: 3668 Message: 3672

If you launched with this "pibal" inflated, then if it didn't
burst at altitude, it would tend to float above the parachute
during descent making for an .... ummm ... expedient descent. And
if it landed on land vice water, then it would also tend to drag
the payload string until it snagged or something broke off - at
which time, it could be lightly loaded enough to fly again.

This has happened.

Oscar KP4RF uses trash bags and duct tape to make his payloads
buoyant, and has executed a number of successful maritime recoveries
offshore from Puerto Rico.

Check out the crossband repeater on www.eoss.org under the Hardware
button for WB4ETT's very effective self-erecting 2m gain ground
plane. Only downside is that the antenna must be tail-end-charlie
on the flight string.

73 de Mike W5VSI, EOSS

mconner1@... wrote:
>
>
> This is a follow-on to some traffic on the APRSSIG and to KC8UCH's
> "buoy" from a couple weeks ago.....
>
> Here's an approach I hadn't thought of for an APRS buoy to get it a
> little more reach. Use a balloon to hoist an antenna and lightweight
> feedline to a higher altitude (say, 50 or 100 ft) to increase its range
> over the water. The radio and battery could remain in a sealed package
> floating on the surface. You could make a fairly simple antenna by
> folding the coax braid back over the sheath for 1/4 wavelength, then
> attaching the balloon to the end of the center conductor.
>
> I think you could do this with a modest-sized balloon, perhaps made of
> Mylar or something more durable than latex. Obviously the wind would
> tend to pull it along rather than just the water currents.
>
> Now whether this would be considered a hazard to wildlife or water
> navigation is left as an exercise for the reader. It'd probably attract
> a lot of attention on the busier lakes. :)
>
> 73 de Mark N9XTN
>
> Message: 5
> Date: Tue, 11 Sep 2007 20:16:39 -0600

> From: Joel Maslak <jmaslak-aprs@...
> <mailto:jmaslak-aprs%40antelope.net>>
> Subject: Re: [aprssig] APRS buoy - transmit power and antenna?
> To: TAPR APRS Mailing List <aprssig@...
> <mailto:aprssig%40lists.tapr.org>>
> Message-ID: <B01E6097-84BB-4A76-B5E5-2B529F74AB5B@...
> <mailto:B01E6097-84BB-4A76-B5E5-2B529F74AB5B%40antelope.net>>
> Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
>
> There's also the possibility of multiple bouys, and possibly things
> like suspending the antenna (and radio?) from a balloon tethered to
> the bouy (or maybe I'm thinking of just an anchor!) if this is for an
> event of some kind (I'd make at least the radio part floatable, and
> design it so that when the balloon comes down the antenna will be at
> least slightly above the water to make recovery easier).
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3673. Re: EOSRED -MAINE projects--Thank you for the offer we'll find a writer and

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 02:33:16 UTC
From: lt
Topic: 3658 Message: 3673

we"ll forward something to you about the launch.

LEE-W1lwt

--- In GPSL@yahoogroups.com, Joe Lynch <n6cl@...> wrote:
>
> Hi Lee,
>
> I invite you to write up your launches for publication in my
column in CQ magazine or as a separate article in CQ VHF magazine. I
am especially interested in giving publicity to your JOTA launch
because of its youth emphasis. You may contact me directly at
n6cl@... Thank you.
>
> 73,
>
>
> Joe Lynch, N6CL
> Editor, CQ VHF magazine
> VHF Editor, CQ magazine
>

3674. Re: EOSRED -MAINE projects -------hey thats great

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 02:37:31 UTC
From: lt
Topic: 3658 Message: 3674

We'll keep in touch Ill give more infro as we get closer and check
the two yahoo groups I have weekly for updates to the lift off.

W1LWT or EOSRED

Yahoo groups.

LEE-w1lwt

--- In GPSL@yahoogroups.com, "Keith Kaiser" <keith.kaiser@...> wrote:
>
> Very cool Lee!
>
> Near Space Ventures will be doing exactly the same thing on Sunday
morning
> from our Camporee / JOTA event near Smithville Lake, Missouri.
This will be
> our third year launching from that event and its usually a very
interesting
> time for the boys and for us.
>
> If you will be on the air for JOTA maybe we'll run into you there
too, we'll
> be using W0NSV as our call all day on Saturday and on the balloon
Sunday
> morning.
>
> 73's!
>
> On 9/10/07, Joe Lynch <n6cl@...> wrote:
> >
> > Hi Lee,
> >
> > I invite you to write up your launches for publication in my
column in *CQ
> > * magazine or as a separate article in *CQ VHF* magazine. I am
especially
> > interested in giving publicity to your JOTA launch because of
its youth
> > emphasis. You may contact me directly at n6cl@... Thank you.
> >
> > 73,
> >
> >
> > Joe Lynch, N6CL
> > Editor, CQ VHF magazine

> > VHF Editor, CQ magazine
> >
> >
> >
>
>
>
> --
> YIS/YIV/73's!
> Keith D Kaiser
> nearspaceventures.com
> bsaroundtable.com
> kaiserklan.com
>

3675. Re: EOSRED -MAINE projects-- Hello Mike

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 02:59:15 UTC
From: lt
Topic: 3658 Message: 3675

Well thats the way it goes this past summer Im use to it sence I am running every experiment and launch over the Atlantic anyway .But the number one thing Ive learnt as we have lost 13 over the big pond that.EACH ONE IS SPECAIL AND EACH HAS HAD SOME FUN FROM EACH HAM that checks it out on that day of lift offs . We might loose them but as each takes off and in the air for up too a few hours every Ham that participated from check ins to tracking to listening to watching at he farm feild to events we've done. Every one has had fun and includeing myself. And every experiment goes well for further study to the next. Ive had 265 HAMS in New England that has given there smiles and best wishes and told storys how they felt they was a part of the projects each time. And even a father that blame me of his daughter and him getting there Ham tickets due to they was scanner listeners and I have gave the excitement for them to study and test and past. And several older Hams who has said there hobby was going stale and with the excitement Ive brough to New england has made them check out other modes now and check into the specail net I have on sunday nite. and learn digital modes to that. I guess I canpat myself some on the back but because of the good world of amatuer operators I have to give them credit for also in ther participateing into our launches for I remend every one its just like the ole days of NASA rocket launches YOU FEEL YOUR THERE and a part of the EOSRED TEAM.(NASA MOVE OVER). And thats my Number one goal young and OLD and whatever else YOUR THERE feel it and check into our net for EOSRED MAINE high Altitude Balloon research and studys and Developements to the EDGE OF SPACE.

And it was a good honor to meet yourself and others at the GPSL WE had FUN and learning experience and cant wiat to join you all again.

LEE-W1LWT
EOSRED project manager

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> Hi Lee,
>
> Hey, hope you have better luck on recovery than you did at GPSL 07 :}.
> CU in KC at GPSL 08.
>
> 73 de Mike W5VSI, EOSS
> PS: Note new email address.
>
> lt wrote:
> > Hello everyone its been a extremely busy summer since the GPSL

and
> > It was great to meet you all and join the fun in launching one
with
> > you all .I cant wait until next time.
> > But know I'm preparing for the next one.
> >
> >
> > NAME:EOS-4,MAINE
> >
> > PRI/SSID APRS: EOS-4 or W1LWT-4
> >
> > DATE: OCT 20th
> >
> > Time : 1200 noon +- 30 minutes to T time
> >
> > GOAL: 200 miles into the ocean sea's at 80,000 foot height with
a
> > flotation package and chute and balloon release in the water.
> >
> > EVENT FROM launch area: 2007 BSA JOTA/JOTI week end
> >
> > Mission: To show the boy scouts and others HAM Radio and science
> > research is fun from a hobby view when shared with all.
> >
> >
> >
> > CHeck us out and email me with any heard or seen tracking
> > information.
> >
> > Check out the YAHOO GROUPS -----W1LWT and EOSRED for weekly up
> > dates.
> >
> >
> > 73's to ALL
> >
> >
> > LEE- W1LWT
> >
> > EOSRED --Project Manager
> >
> >
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> >
> > Yahoo! Groups Links
> >
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>

> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

3676. Re: Idea for APRS buoy-- EOSRED we due a 2nd balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 03:22:53 UTC
From: lt
Topic: 3668 Message: 3676

We do a second balloon and its filled with only half as much heluim
and we use a parachute on the upside down position. And candy
lifesavers for chute and string release in the water.

Yes we have found the second balloon for us at 50 foot above the
main balloon acts as a bobber in the water and we've had a tune
fisherman 85 miles out in the atlantic find it floating from a
distance.
The chute upside down position gives a slower lift off and when
the winds gets a hold it then its on the way. and when the main
chute pops then the package flipps to a 180 degree angle for its
return to earth.

The candy life savers is placed in specail release areas so in the
water they desolve and the package seperates to floating and the
rest sinks with seaweed.

Ive been doing research on this with over 20 launches some in the
atlantic still.

Possible when a whale burps up my other packges they will be
recovered and each has a 50 dollar reward for there return.Thats why
the whale has not burp them up yet what can he do with 50 bucks(HE-
HE).

I hope this give you soem ideas.

LEE-w1lwt

EOSRED project manager

--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
> If you launched with this "pibal" inflated, then if it didn't
> burst at altitude, it would tend to float above the parachute
> during descent making for an .... ummm ... expedient descent. And
> if it landed on land vice water, then it would also tend to drag
> the payload string until it snagged or something broke off - at
> which time, it could be lightly loaded enough to fly again.
>
> This has happened.
>
> Oscar KP4RF uses trash bags and duct tape to make his payloads
> buoyant, and has executed a number of successful maritime
recoveries
> offshore from Puerto Rico.
>

> Check out the crossband repeater on www.eoss.org under the Hardware
> button for WB4ETT's very effective self-erecting 2m gain ground
> plane. Only downside is that the antenna must be tail-end-charlie
> on the flight string.
>
> 73 de Mike W5VSI, EOSS
>
> mconner1@... wrote:
> >
> >
> > This is a follow-on to some traffic on the APRSSIG and to
KC8UCH's
> > "buoy" from a couple weeks ago.....
> >
> > Here's an approach I hadn't thought of for an APRS buoy to get
it a
> > little more reach. Use a balloon to hoist an antenna and
lightweight
> > feedline to a higher altitude (say, 50 or 100 ft) to increase
its range
> > over the water. The radio and battery could remain in a sealed
package
> > floating on the surface. You could make a fairly simple antenna
by
> > folding the coax braid back over the sheath for 1/4 wavelength,
then
> > attaching the balloon to the end of the center conductor.
> >
> > I think you could do this with a modest-sized balloon, perhaps
made of
> > Mylar or something more durable than latex. Obviously the wind
would
> > tend to pull it along rather than just the water currents.
> >
> > Now whether this would be considered a hazard to wildlife or
water
> > navigation is left as an exercise for the reader. It'd probably
attract
> > a lot of attention on the busier lakes. :)
> >
> > 73 de Mark N9XTN
> >
> > Message: 5
> > Date: Tue, 11 Sep 2007 20:16:39 -0600
> > From: Joel Maslak <jmaslak-aprs@...
> > <mailto:jmaslak-aprs%40antelope.net>>
> > Subject: Re: [aprssig] APRS buoy - transmit power and antenna?
> > To: TAPR APRS Mailing List <aprssig@...
> > <mailto:aprssig%40lists.tapr.org>>
> > Message-ID: <B01E6097-84BB-4A76-B5E5-2B529F74AB5B@...

> > <mailto:B01E6097-84BB-4A76-B5E5-2B529F74AB5B%40antelope.net>>
> > Content-Type: text/plain; charset=US-ASCII; delsp=yes;
format=flowed
> >
> > There's also the possibility of multiple bouys, and possibly
things
> > like suspending the antenna (and radio?) from a balloon tethered
to
> > the bouy (or maybe I'm thinking of just an anchor!) if this is
for an
> > event of some kind (I'd make at least the radio part floatable,
and
> > design it so that when the balloon comes down the antenna will
be at
> > least slightly above the water to make recovery easier).
> >
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>

3677. Re: [GPSL] Re: Antenna Testing Question

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 12:12:39 UTC
From: Pete Lilja
Topic: 3663 Message: 3677

Agreed. I have every confidence in the Beeline hardware set. These things are built for and fly often in high powered rockets. HPRocketry is a much more violent application than a balloon flight. I think that qualifies for being kicked down a couple of flights of stairs! 8-)

The Beeline GPS transmitters have also flown successfully on a couple of HAB flights I've read about.

Mt concern is for the antenna I built and I'm finding it difficult to test. However, I've been offered space on others' balloon flights so this problem may be solved.

If anyone is interested in high power rockets there is a lot of info. online. Here are a couple of links to some onboard video of mine.
http://www.youtube.com/watch?v=KyoXOm7Q7II
http://www.youtube.com/watch?v=da4SDJE8Jfw
http://www.youtube.com/watch?v=txGxnS5K3yA
There are a lot more vids out there.

Pete
KCØGPB

----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Wednesday, September 12, 2007 5:40 PM
Subject: Re: [GPSL] Re: Antenna Testing Question

The biggest risk re flying a new beacon on a live ARHAB flight
isn't the radio range - that can be calculated easily using the
standard radar range equation (see ARRL handbook). The larger
risk is whether it will survive the low ambient temps, and
to a lesser extent, barometric pressure, plus the rigors of
PBC and a parachute drag.

If it still operates after cold-soaking in a zero F food freezer
for a few hours and after being kicked down a flight or two of
concrete stairs, then it's likely to live thru the flight. Another
new-payload bugaboo is EMC: if RF from the xmtr gets into the low
level sigs in the beacon generator or GPS; but that problem typically
shows up during terrestrial testing. Oh, and make sure the GPS will
keep a lock when its lying on its side looking north.

73 de Mike W5VSI, EOSS

k7rkt wrote:
>
>

> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, "Pete
> Lilja" <plilja@...> wrote:
> >
> > I'm planning to use a Beeline 70cm GPS transmitter in my first
> balloon flight.
> >
> snip.....
> >
> > I'd really rather not risk my transmiiters and cameras on a HAB
> flight without testing the antenna.
> >
> > Thanks,
> >
> > Pete
> > KCØGPB
> >
>
> Pete,
>
> how about turn the power way down, figure out your limits with the
> reduced power, then scale up the distance mathematically with
> increased power? Just a thought.
>
> (BTW, we got 20 miles line of site using the stock antenna on the
> BeeLine, home made 6-element yagi, and TH-D7 receiver)
>
> Realistically, I think you're gonna have to fly it, or move out of
> Iowa ;)
>
> Greg, BigRedBee LLC
> K7RKT
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3678. Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 14:22:54 UTC
From: Luis Eduardo Pacheco
Topic: 3678 Message: 3678
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3679. Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 16:25:12 UTC
From: Joe
Topic: 3678 Message: 3679

I'm watching the video.

curious, does the video look better at the mission control?

Or what are they actually using for the video?

or what is the purpose for the video.

is it to see details in the envelope?

if so i hope the images at the site are better. because the ones i'm seeing streaming here are terrible. You can see the balloon, but thats it, no details at all of any kind.

Joe

Luis Eduardo Pacheco wrote:

> A balloon in flight over New Mexico launched by NASA is transmiting
> live over the net from the stratosphere.
>
> Take a look at http://stratocat.com.ar/indexe.html
>
> Best regards
>
> --
> Luis Eduardo Pacheco
> Historical recopilation project on the use of stratospheric balloons
> in the scientific research, the military field and the aerospace activity
>

3680. Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 17:04:17 UTC
From: Luis Eduardo Pacheco
Topic: 3678 Message: 3680
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3681. Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 17:23:34 UTC
From: Joe
Topic: 3678 Message: 3681

Ahhh,, it's the sun

That explains the lack of detail. the sun is pretty plain lately.

And then if it's the sun

then this is a pretty good image. stability wise. some decent
magnification going on here. looking like close to 100X or so by my guess.

Joe

Luis Eduardo Pacheco wrote:

> Well my guess is that internet Feed is a downgraded version of the
> original feed.
>
> Generally speaking the camera mounted in the gondola is used to see
> closelly the balloon behavior (in case of new balloon test flights) or
> some details of the gondola behavior during flight.
>
> What you are seeing is not the balloon. Actually is the sun, seen
> thorugh the telescope which is part of the SBI (solar bolometric
> Imager) instrument.
>
> Seeya
> Luis Eduardo Pacheco
> StratoCat - (english version: http://stratocat.com.ar/indexe.html)
> Historical recopilation project on the use of
> stratospheric balloons in the scientific research,
> the military field and the aerospace activity
>
> 2007/9/13, Joe <nss@... <mailto:nss@...>>:
>
> I'm watching the video.
>
> curious, does the video look better at the mission control?
>
> Or what are they actually using for the video?
>
> or what is the purpose for the video.
>
> is it to see details in the envelope?
>
> if so i hope the images at the site are better. because the ones
> i'm seeing streaming here are terrible. You can see the balloon,
> but thats it, no details at all of any kind.

>
> Joe
>
>
>
> Luis Eduardo Pacheco wrote:
>
>> A balloon in flight over New Mexico launched by NASA is
>> transmiting live over the net from the stratosphere.
>>
>> Take a look at http://stratocat.com.ar/indexe.html
>>
>> Best regards
>>
>> --
>> Luis Eduardo Pacheco
>> Historical recopilation project on the use of stratospheric
>> balloons in the scientific research, the military field and the
>> aerospace activity
>
>
>
>
>

3682. Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 19:56:25 UTC
From: Harry M
Topic: 3682 Message: 3682

They have several cameras available and switch occasionally.
The position has not updated on the internet for several hours.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3683. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:04:12 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3683
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3684. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:15:56 UTC
From: Michael Gray
Topic: 3682 Message: 3684

Any idea what system they are using for tracking?

On Thu, 13 Sep 2007, Luis Eduardo Pacheco wrote:

> Its progressing to the east approaching the mountains east Albuquerque.
>
> Take a look at the raw GPS reading at
> http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml
> hit F5 from time to time.
>
> I'm wondering if they will cut down now or will wait the balloon would be
> located southwest of Albuquerque.
>
> One guy wrote to me to say that the balloon was visible from his work place.
>
>
> Surely this was the worst movie I've ever seen in the last months :-)
>
> Greetings
>
> 2007/9/13, Harry M <hhm_74115@...>:
> >
> > They have several cameras available and switch occasionally.
> > The position has not updated on the internet for several hours.
> >
> >
> > -----
> > Harry Mueller - KC5TRB - Tulsa
> > Oklahoma Research Balloons
> > Home Page - http://members.cox.net/hhm_74775/orb/
> > Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> > -----
> >
> >
>
>
>
>

3685. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:22:56 UTC
From: Joe
Topic: 3682 Message: 3685

The stability right now is to ever remorely INCREDIBLE!!! Like a min or arc stability!

Joe NSS

Luis Eduardo Pacheco wrote:

> Its progressing to the east approaching the mountains east Albuquerque.
>
> Take a look at the raw GPS reading at
> http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml
> <http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml>
> hit F5 from time to time.
>
> I'm wondering if they will cut down now or will wait the balloon would
> be located southwest of Albuquerque.
>
> One guy wrote to me to say that the balloon was visible from his work
> place.
>
> Surely this was the worst movie I've ever seen in the last months :-)
>
> Greetings
>
> 2007/9/13, Harry M <hhm_74115@... <mailto:hhm_74115@...>>:
>
> They have several cameras available and switch occasionally.
> The position has not updated on the internet for several hours.
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion -
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
>
>
>
> --
> Luis Eduardo Pacheco
> StratoCat - http://stratocat.com.ar

> Proyecto de recopilaci?n hist?rica sobre el uso de globos
> estratosf?ricos en la investigaci?n cientifica, el campo militar y la
> actividad aeroespacial

3686. Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:18:25 UTC
From: Joe
Topic: 3682 Message: 3686

You need to keep hiotting refresh to get new data,, it changes every
time i punch it.

Joe NSS

Harry M wrote:

> They have several cameras available and switch occasionally.
> The position has not updated on the internet for several hours.
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

3687. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:20:52 UTC
From: Joe
Topic: 3682 Message: 3687

I wonder how heavy the payload is.

Joe

Luis Eduardo Pacheco wrote:

> Its progressing to the east approaching the mountains east Albuquerque.
>
> Take a look at the raw GPS reading at
> http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml
> <http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml>
> hit F5 from time to time.
>
> I'm wondering if they will cut down now or will wait the balloon would
> be located southwest of Albuquerque.
>
> One guy wrote to me to say that the balloon was visible from his work
> place.
>
> Surely this was the worst movie I've ever seen in the last months :-)
>
> Greetings
>
> 2007/9/13, Harry M <hhm_74115@... <mailto:hhm_74115@...>>:
>
> They have several cameras available and switch occasionally.
> The position has not updated on the internet for several hours.
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion -
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
>
>
>
> --
> Luis Eduardo Pacheco
> StratoCat - http://stratocat.com.ar
> Proyecto de recopilaci?n hist?rica sobre el uso de globos

> estratosf?ricos en la investigaci?n cientifica, el campo militar y la
> actividad aeroespacial

3688. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:32:50 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3688
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3689. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 20:42:57 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3689
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3690. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 21:06:16 UTC
From: Harry M
Topic: 3682 Message: 3690

I wanna see an MCE!!!

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3691. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 21:21:52 UTC
From: Joe
Topic: 3682 Message: 3691

MCE?

Harry M wrote:

>
>
> I wanna see an MCE!!!
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

3692. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 21:23:05 UTC
From: Joe
Topic: 3682 Message: 3692

I wonder how long after it leaves the abq area and or after sunset will
they wait till the cut her down.

Joe

Harry M wrote:

>
>
> I wanna see an MCE!!!
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

3693. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 21:33:06 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3693
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3694. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 21:34:23 UTC
From: Harry M
Topic: 3682 Message: 3694

MCE - Mass Coronal Ejection

3695. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 21:40:33 UTC
From: Harry M
Topic: 3682 Message: 3695

Hi Luis,

Thanks for the "heads-up" (pun intended) on this flight!

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

3696. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-13 22:22:28 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3696
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3697. Re: Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 01:10:54 UTC
From: Luis Eduardo Pacheco
Topic: 3678 Message: 3697
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3698. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 03:54:19 UTC
From: Mike Manes
Topic: 3682 Message: 3698

I saw a presentation on that airframe at the LCANS conference in
Boulder this spring. It's about 1000 lb - plus payloads! No
wonder they're using a 3,500,000 cuft ZP balloon.

"Things should be made as light as possible, but not more so"
(w/ apologies to my hero Albert).

73 de Mike W5VSI

Joe wrote:
>
>
> I wonder how heavy the payload is.
>
> Joe
>
> Luis Eduardo Pacheco wrote:
>
>> Its progressing to the east approaching the mountains east Albuquerque.
>>
>> Take a look at the raw GPS reading at
>> http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml
>> <http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml>
>> hit F5 from time to time.
>>
>> I'm wondering if they will cut down now or will wait the balloon would
>> be located southwest of Albuquerque.
>>
>> One guy wrote to me to say that the balloon was visible from his work
>> place.
>>
>> Surely this was the worst movie I've ever seen in the last months :-)
>>
>> Greetings
>>
>> 2007/9/13, Harry M <hhm_74115@... <mailto:hhm_74115@...>>:
>>
>> They have several cameras available and switch occasionally.
>> The position has not updated on the internet for several hours.
>>
>>
>> -----
>> Harry Mueller - KC5TRB - Tulsa
>> Oklahoma Research Balloons

>> Home Page - http://members.cox.net/hhm_74775/orb/
>> <http://members.cox.net/hhm_74775/orb/>
>> Discussion -
>> http://groups.yahoo.com/group/oklahoma_research_balloons/join
>> <http://groups.yahoo.com/group/oklahoma_research_balloons/join>
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>> --
>> Luis Eduardo Pacheco
>> StratoCat - http://stratocat.com.ar <http://stratocat.com.ar>
>> Proyecto de recopilación histórica sobre el uso de globos
>> estratosféricos en la investigación cientifica, el campo militar y la
>> actividad aeroespacial
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3699. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 03:13:23 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3699
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3700. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 04:43:05 UTC
From: Mike Manes
Topic: 3682 Message: 3700

OK. I was going from the "Autumn campaign" bit on the stratocat.com.ar
page where it mentioned the 37H balloon (3.7 million cuft). I was
off by a factor of 0.3!! I wonder who's paying the tab for this one.

73 de Mike W5VSI, EOSS

BTW, it's 0348Z, and it's still flying. I suspect they won't cut
it down over the mountains - makes for a dicey landing and recovery.
Probably gonna aim for Jack's QTH :-}.

Luis Eduardo Pacheco wrote:
>
>
> Actually I think it's a 11.000.000 cu ft balloon.
>
>
>
>
> 2007/9/14, Mike Manes <mrmanes@... <mailto:mrmanes@...>>:
>
> I saw a presentation on that airframe at the LCANS conference in
> Boulder this spring. It's about 1000 lb - plus payloads! No
> wonder they're using a 3,500,000 cuft ZP balloon.
>
> "Things should be made as light as possible, but not more so"
> (w/ apologies to my hero Albert).
>
> 73 de Mike W5VSI
>
> Joe wrote:
> >
> >
> > I wonder how heavy the payload is.
> >
> > Joe
> >
> > Luis Eduardo Pacheco wrote:
> >
> >> Its progressing to the east approaching the mountains east
> Albuquerque.
> >>
> >> Take a look at the raw GPS reading at
> >> http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml
> <http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml>
> >> < http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml

> <http://towerfts.csbf.nasa.gov/GoogleMaps/Track574N.xml>>
> >> hit F5 from time to time.
> >>
> >> I'm wondering if they will cut down now or will wait the balloon
> would
> >> be located southwest of Albuquerque.
> >>
> >> One guy wrote to me to say that the balloon was visible from his
> work
> >> place.
> >>
> >> Surely this was the worst movie I've ever seen in the last
> months :-)
> >>
> >> Greetings
> >>
> >> 2007/9/13, Harry M <hhm_74115@... <mailto:hhm_74115@...>
> <mailto:hhm_74115@... <mailto:hhm_74115@...>>>:
> >>
> >> They have several cameras available and switch occasionally.
> >> The position has not updated on the internet for several hours.
> >>
> >>
> >> -----
> >> Harry Mueller - KC5TRB - Tulsa
> >> Oklahoma Research Balloons
> >> Home Page - http://members.cox.net/hhm_74775/orb/
> <http://members.cox.net/hhm_74775/orb/>
> >> <http://members.cox.net/hhm_74775/orb/
> <http://members.cox.net/hhm_74775/orb/>>
> >> Discussion -
> >>
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> <http://groups.yahoo.com/group/oklahoma_research_balloons/join>
> >> <
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> <http://groups.yahoo.com/group/oklahoma_research_balloons/join>>
> >> -----
> >>
> >>
> >>
> >>
> >> --
> >> Luis Eduardo Pacheco
> >> StratoCat - http://stratocat.com.ar <http://stratocat.com.ar>
> <http://stratocat.com.ar <http://stratocat.com.ar>>
> >> Proyecto de recopilación histórica sobre el uso de globos
> >> estratosféricos en la investigación cientifica, el campo militar
> y la
> >> actividad aeroespacial

> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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>
>
> Yahoo! Groups Links
>
>
> (Yahoo! ID required)
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Luis Eduardo Pacheco
> StratoCat - http://stratocat.com.ar <http://stratocat.com.ar>
> Proyecto de recopilación histórica sobre el uso de globos
> estratosféricos en la investigación cientifica, el campo militar y la
> actividad aeroespacial
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

3701. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 03:58:57 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3701
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3702. Re: [GPSL] Re: [Ballooning] Re: [solarballoons] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 04:19:02 UTC
From: Luis Eduardo Pacheco
Topic: 3682 Message: 3702
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3703. Re: [GPSL] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 14:33:57 UTC
From: Harry M
Topic: 3678 Message: 3703

Looks like it may be on the ground just west of Winslow, Az

Latitude: 35°00.73
Longitude: 110°29.56
Altitude: 5627 Feet

Harry - KC5TRB - Tulsa

3704. Re: [GPSL] Live feed from the stratosphere. Now!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-14 15:12:07 UTC
From: Luis Eduardo Pacheco
Topic: 3678 Message: 3704
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3705. 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 03:35:06 UTC
From: Mark Conner
Topic: 3705 Message: 3705

There have been fairly regular listings for 1200g balloons that were manufactured around 9/03 on eBay the last week or so. I've gotten a couple myself. They're put up every 3 days, and the seller is willing to combine shipping if want to wait a couple of auctions' worth.

The listing and box say Kaysam, but if they're the same batch that were gov't surplus on eBay earlier in the year, they're actually Kaymont.

73 de Mark N9XTN

3706. Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 05:30:59 UTC
From: Mike Manes
Topic: 3705 Message: 3706

Kaymont is the US distributor for the Japanese Kaysam latex balloons.
Confusing, eh?

If the balloons were stored in the original poly bags and sealed
cartons (light tight), then they oughta be good as new.

73 de Mike W5VSI, EOSS

Mark Conner wrote:
>
>
> There have been fairly regular listings for 1200g balloons that were
> manufactured around 9/03 on eBay the last week or so. I've gotten a
> couple myself. They're put up every 3 days, and the seller is willing
> to combine shipping if want to wait a couple of auctions' worth.
>
> The listing and box say Kaysam, but if they're the same batch that
> were gov't surplus on eBay earlier in the year, they're actually
> Kaymont.
>
> 73 de Mark N9XTN
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3707. Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 11:28:29 UTC
From: nss@mwt.net
Topic: 3705 Message: 3707

> Kaymont is the US distributor for the Japanese Kaysam latex balloons.
> Confusing, eh?

I thought haysam was a USA based and made balloons UGLY BROWN oblong
just plain nasty and with the large knott ring thing near the neck
thing. When the Japanese balloons (Totex) started coming out they were
nice round, tight and much better quality. then Kaysam shortly went
under.

or at least thats how i remember it.

Joe

>
> If the balloons were stored in the original poly bags and sealed
> cartons (light tight), then they oughta be good as new.
>
> 73 de Mike W5VSI, EOSS
>
> Mark Conner wrote:
>>
>>
>> There have been fairly regular listings for 1200g balloons that were
>> manufactured around 9/03 on eBay the last week or so. I've gotten a
>> couple myself. They're put up every 3 days, and the seller is willing
>> to combine shipping if want to wait a couple of auctions' worth.
>>
>> The listing and box say Kaysam, but if they're the same batch that
>> were gov't surplus on eBay earlier in the year, they're actually
>> Kaymont.
>>
>> 73 de Mark N9XTN
>>
>>
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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>
> Yahoo! Groups Links
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>

>

3708. Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 19:00:46 UTC
From: Mike Manes
Topic: 3705 Message: 3708

Hi Joe,

Yeah, you're right. Kaymont distributes the Totex line of latex,
but the SKU for those are all "KCI-xxx" - which rattled me into
thinking Kaysam. I think Totex uses natural latex and Kaysam used
neoprene. Funny, tho, that the natural stuff looks so nice and
white uniform compared to the manmade stuff. Maybe higher quality
manufacturing processes?

We've relied on Merle all these years to handle balloon ordering,
and since his accident in April, I've just placed 2 orders, both
with Paul Fetkowitz at Kaymont.

73 de Mike W5VSI

nss@... wrote:
>
>
> > Kaymont is the US distributor for the Japanese Kaysam latex balloons.
> > Confusing, eh?
>
> I thought haysam was a USA based and made balloons UGLY BROWN oblong
> just plain nasty and with the large knott ring thing near the neck
> thing. When the Japanese balloons (Totex) started coming out they were
> nice round, tight and much better quality. then Kaysam shortly went
> under.
>
> or at least thats how i remember it.
>
> Joe
>
> >
> > If the balloons were stored in the original poly bags and sealed
> > cartons (light tight), then they oughta be good as new.
> >
> > 73 de Mike W5VSI, EOSS
> >
> > Mark Conner wrote:
> >>
> >>
> >> There have been fairly regular listings for 1200g balloons that were
> >> manufactured around 9/03 on eBay the last week or so. I've gotten a
> >> couple myself. They're put up every 3 days, and the seller is willing
> >> to combine shipping if want to wait a couple of auctions' worth.
> >>
> >> The listing and box say Kaysam, but if they're the same batch that

> >> were gov't surplus on eBay earlier in the year, they're actually
> >> Kaymont.
> >>
> >> 73 de Mark N9XTN
> >>
> >>
> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
> >
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> >
> > Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3709. Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 18:53:34 UTC
From: nss@mwt.net
Topic: 3705 Message: 3709

Paul is awesome!!

> Hi Joe,
>
> Yeah, you're right. Kaymont distributes the Totex line of latex,
> but the SKU for those are all "KCI-xxx" - which rattled me into
> thinking Kaysam. I think Totex uses natural latex and Kaysam used
> neoprene. Funny, tho, that the natural stuff looks so nice and
> white uniform compared to the manmade stuff. Maybe higher quality
> manufacturing processes?
>
> We've relied on Merle all these years to handle balloon ordering,
> and since his accident in April, I've just placed 2 orders, both
> with Paul Fetkowitz at Kaymont.
>
> 73 de Mike W5VSI
>
> nss@... wrote:
>>
>>
>> > Kaymont is the US distributor for the Japanese Kaysam latex balloons.
>> > Confusing, eh?
>>
>> I thought haysam was a USA based and made balloons UGLY BROWN oblong
>> just plain nasty and with the large knott ring thing near the neck
>> thing. When the Japanese balloons (Totex) started coming out they were
>> nice round, tight and much better quality. then Kaysam shortly went
>> under.
>>
>> or at least thats how i remember it.
>>
>> Joe
>>
>> >
>> > If the balloons were stored in the original poly bags and sealed
>> > cartons (light tight), then they oughta be good as new.
>> >
>> > 73 de Mike W5VSI, EOSS
>> >
>> > Mark Conner wrote:
>> >>
>> >>
>> >> There have been fairly regular listings for 1200g balloons that were
>> >> manufactured around 9/03 on eBay the last week or so. I've gotten a
>> >> couple myself. They're put up every 3 days, and the seller is

>> willing
>> >> to combine shipping if want to wait a couple of auctions' worth.
>> >>
>> >> The listing and box say Kaysam, but if they're the same batch that
>> >> were gov't surplus on eBay earlier in the year, they're actually
>> >> Kaymont.
>> >>
>> >> 73 de Mark N9XTN
>> >>
>> >>
>> >
>> > --
>> > Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
>> 303-979-4899
>> > "Things should be made as simple as possible, but not more so."
>> > A. Einstein
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>> > Yahoo! Groups Links
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
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>
> Yahoo! Groups Links
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>

3710. Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 19:14:45 UTC
From: mconner1@gmail.com
Topic: 3705 Message: 3710

I think the ones on eBay are Totex. They should be the white-colored one-piece ones, without the cardboard collar at the neck. The box photo and NSN match what got earlier in the year, but won't know 100% for sure until the shipment arrives.

I bought one for about $22 and the other for $12, plus something like $20 for shipping the pair (awaiting final invoice), so that's roughly $27 per balloon which is less than half price. I got a big batch of these balloons earlier this year from another eBay supplier and they were perfect - no discoloration at all.

You can find it on eBay by entering "Kaysam" or "weather balloon" for your search term. I see these come up every few months, so a slug of them must be going through the gov't surplus channels. I haven't paid full price for balloons for over a year now.

Mike, did Kaymont require a minimum order (qty or cost)?

73 de Mark N9XTN

----- Original Message -----
From: Mike Manes <mrmanes@...>
Date: Monday, September 17, 2007 1:04 pm
Subject: Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay
To: GPSL@yahoogroups.com

> Hi Joe,
>
> Yeah, you're right. Kaymont distributes the Totex line of latex,
> but the SKU for those are all "KCI-xxx" - which rattled me into
> thinking Kaysam. I think Totex uses natural latex and Kaysam used
> neoprene. Funny, tho, that the natural stuff looks so nice and
> white uniform compared to the manmade stuff. Maybe higher quality
> manufacturing processes?
>
> We've relied on Merle all these years to handle balloon ordering,
> and since his accident in April, I've just placed 2 orders, both
> with Paul Fetkowitz at Kaymont.
>
> 73 de Mike W5VSI
>

3711. Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-17 22:03:00 UTC
From: Mike Manes
Topic: 3705 Message: 3711

Hi Mark,

Sounds like you've found some great bargains on E^&*.

Paul happily shipped me 2 @ KCI-1200's the same week that I
posted my order to him via email. Merle had established a sound
working relationship with Kaymont, so I'm not sure that service
would extend to all players. Give it a shot.

73 de Mike W5VSI

mconner1@... wrote:
>
>
> I think the ones on eBay are Totex. They should be the white-colored
> one-piece ones, without the cardboard collar at the neck. The box photo
> and NSN match what got earlier in the year, but won't know 100% for sure
> until the shipment arrives.
>
> I bought one for about $22 and the other for $12, plus something like
> $20 for shipping the pair (awaiting final invoice), so that's roughly
> $27 per balloon which is less than half price. I got a big batch of
> these balloons earlier this year from another eBay supplier and they
> were perfect - no discoloration at all.
>
> You can find it on eBay by entering "Kaysam" or "weather balloon" for
> your search term. I see these come up every few months, so a slug of
> them must be going through the gov't surplus channels. I haven't paid
> full price for balloons for over a year now.
>
> Mike, did Kaymont require a minimum order (qty or cost)?
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Mike Manes <mrmanes@... <mailto:mrmanes%40gmail.com>>
> Date: Monday, September 17, 2007 1:04 pm
> Subject: Re: [GPSL] 1200g Kaysam (Kaymont?) balloons on eBay
> To: GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>
>
> > Hi Joe,
> >
> > Yeah, you're right. Kaymont distributes the Totex line of latex,
> > but the SKU for those are all "KCI-xxx" - which rattled me into
> > thinking Kaysam. I think Totex uses natural latex and Kaysam used
> > neoprene. Funny, tho, that the natural stuff looks so nice and

> > white uniform compared to the manmade stuff. Maybe higher quality
> > manufacturing processes?
> >
> > We've relied on Merle all these years to handle balloon ordering,
> > and since his accident in April, I've just placed 2 orders, both
> > with Paul Fetkowitz at Kaymont.
> >
> > 73 de Mike W5VSI
> >
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3712. Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2007-09-26 04:02:41 UTC
From: Gene Harlan
Topic: 1887 Message: 3712

One more call for any last minute articles for the Fall 2007 issue of Amateur Television Quarterly. I am starting to put together the new issue and will really get into it next week.

Let me know if something will be coming.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@hampubs.com
815-398-2683 - voice
815-398-2688 - fax

3713. Re: [Ballooning] Why Do We Do This?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-06 05:33:25 UTC
From: Mike Manes
Topic: 3713 Message: 3713

Hi Joe,

The mantra that I must repeat to myself when the alarm goes off at zero-dark-30 every launch morning is, "I do this for recreation. I do this for ..."

Seriously, my motivator is hearing the cheers from the students when they see their creations soar towards the edge of space from the launch site and their grins and giggles when they pick them up at the landing site.

It's those times that I reminisce about all the neat goodies I found to tinker with in my grandpa's and uncles' garages - things largely denied today's youth.

If it weren't for that, I'd have gone into a more thrilling hobby, like stamp collecting, after the first 100 launches.

73 de Mike W5VSI

Joe wrote:
> Hi All of the Ballooning groups out there!
>
> The Subject is the question,,
>
> Just wondering,, "Why Do We Do this High Altitude Ballooning"?
>
> What ya all say?
>
> Joe & NSS
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>

> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3714. Balloon Launched TODAY from Perryton TX by WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-06 21:19:04 UTC
From: Barry L. Lankford
Topic: 3714 Message: 3714

I'm passing on this Balloon Launch Announcement for Bill Brown WB8ELK as he is out of reach of an internet connection:
- Barry N4MSJ

Launch site: Perryton, TX
Launch time: 3:08pm CDT (today)

APRS: 144.39MHz WB8ELK-11
Voice Beacon: 147.42MHz "WB8ELK"
10M CW Beacon: 28.322MHz

http://www.findu.com/cgi-bin/find.cgi?wb8elk-11

Chase vehicle: KC5TRB-2:
http://www.findu.com/cgi-bin/find.cgi?kc5trb-2

Note: ORB did not fly

3715. Re: [GPSL] Balloon Launched TODAY from Perryton TX by WB8ELK

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-06 23:19:47 UTC
From: Mike Manes
Topic: 3714 Message: 3715

Looks like Bill's payload has landed and HArry's hot on the recovery.
73 de Mike W5VSI

Barry L. Lankford wrote:
> I'm passing on this Balloon Launch Announcement for Bill Brown WB8ELK as he
> is out of reach of an internet connection:
> - Barry N4MSJ
>
>
> Launch site: Perryton, TX
> Launch time: 3:08pm CDT (today)
>
> APRS: 144.39MHz WB8ELK-11
> Voice Beacon: 147.42MHz "WB8ELK"
> 10M CW Beacon: 28.322MHz
>
> http://www.findu.com/cgi-bin/find.cgi?wb8elk-11
>
> Chase vehicle: KC5TRB-2:
> http://www.findu.com/cgi-bin/find.cgi?kc5trb-2
>
>
> Note: ORB did not fly
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3716. Re: [Ballooning] America's Gas Balloon Challenge

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-07 21:16:25 UTC
From: Mike Manes
Topic: 3716 Message: 3716

Hi Jay,

I take it that the gas balloon launch isn't scheduled until Monday 10/8 evening about sunset, correct?

73 de Mike W5VSI, EOSS

Jay Miller wrote:
> http://www.balloonfiesta.com/Gas/tracking/index.html
>
> The Gas Balloons are scheduled for departure approximately 6:30 PM
> Mountain Daylight Time on Oct. 8, 2007 from the Albuquerque Balloon
> Fiesta Park.
>
>
> The weather is favorable for a flight path to the US East Coast. All
> Balloons are carrying APRS equipment and they have at least one Ham on
> board.
>
> http://www.gasballooning.org/
>
> Both of the Albuquerque, NM Gas Balloon repeaters have echolink & IRLP
> access (KB5GAS, repeater trustee is WA5SJW).
>
> Periodically check the following web page for updates;
>
> http://www.balloonfiesta.com/ click on the gas balloons then live
> tracking.
>
> ...Jay WA5WHN
>
>
>
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your

> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
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>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3717. Re: [GPSL] Re: [Ballooning] America's Gas Balloon Challenge

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-07 21:08:41 UTC
From: Joe
Topic: 3716 Message: 3717

Hi Mike,, Yeah to me it looks like evening launch

America's Challenge Gas Balloon Race Launch presented by Matheson Tri-Gas
Balloon Fiesta Park
10/8 6:00pm - 7:00pm
America's Challenge Gas Balloon Race: The America's Challenge is one of the most prestigious long-distance ballooning events in the world, and gives spectators a means to learn about another aspect of ballooning - long-duration gas balloon flight. Most Balloon Fiesta events feature hot-air balloons, which usually can stay aloft for only a couple of hours. Gas balloons, use lighter-than-air gases such as helium and hydrogen for lift, and can stay aloft for 60 hours or more. The balloon that flies the furthest - in accordance with the rules - wins. Some America's Challenge flights reach Canada and the U.S. East Coast. The gas balloons inflate in the late afternoon and take off in the early evening - timing that increases the balloons' flight duration.

should be cool,, i wonder what altitudes they will be flying at/

Joe & NSS

Mike Manes wrote:

>Hi Jay,
>
>I take it that the gas balloon launch isn't scheduled until Monday 10/8
>evening about sunset, correct?
>
>73 de Mike W5VSI, EOSS
>
>Jay Miller wrote:
>
>
>>http://www.balloonfiesta.com/Gas/tracking/index.html
>>
>>The Gas Balloons are scheduled for departure approximately 6:30 PM
>>Mountain Daylight Time on Oct. 8, 2007 from the Albuquerque Balloon
>>Fiesta Park.
>>
>>
>>The weather is favorable for a flight path to the US East Coast. All
>>Balloons are carrying APRS equipment and they have at least one Ham on
>>board.
>>
>>http://www.gasballooning.org/
>>

>>Both of the Albuquerque, NM Gas Balloon repeaters have echolink & IRLP
>>access (KB5GAS, repeater trustee is WA5SJW).
>>
>>Periodically check the following web page for updates;
>>
>>http://www.balloonfiesta.com/ click on the gas balloons then live
>>tracking.
>>
>> ...Jay WA5WHN
>>
>>
>>
>>
>>
>>To start sending messages to members of this group,
>>simply send email to
>>
>>Ballooning@yahoogroups.com
>>
>>If you do not wish to belong to Ballooning, you may
>>unsubscribe by sending an email to
>>
>>Ballooning-unsubscribe@yahoogroups.com
>>
>>You may also visit the eGroups web site to modify your
>>subscriptions:
>>
>>http://groups.yahoo.com/group/Ballooning
>>
>>To email the list Owner, just send a message to the
>>following address:
>>
>>Ballooning-owner@yahoogroups.com
>>
>>
>>Regards,
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>>Moderator, Ballooning
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>>Yahoo! Groups Links
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3718. Re: [GPSL] Re: [Ballooning] America's Gas Balloon Challenge

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-07 22:26:18 UTC
From: Mike Manes
Topic: 3716 Message: 3718

The gas balloonists like to launch at sunset to delay having to vent gas for as long as possible. Solar heating during the next day can take 'em above the open gondola altitude limit of 15K' MSL, where they have to vent. The next night, they have to dump ballast to stay in the air. When they run out of ballast, for them, the race is over next afternoon.

73 de Mike W5VSI

Joe wrote:
> Hi Mike,, Yeah to me it looks like evening launch
>
> *America's Challenge Gas Balloon Race Launch /presented by Matheson
> Tri-Gas/*
> Balloon Fiesta Park
> 10/8 6:00pm - 7:00pm
> America’s Challenge Gas Balloon Race: The America’s Challenge is one of
> the most prestigious long-distance ballooning events in the world, and
> gives spectators a means to learn about another aspect of ballooning –
> long-duration gas balloon flight. Most Balloon Fiesta events feature
> hot-air balloons, which usually can stay aloft for only a couple of
> hours. Gas balloons, use lighter-than-air gases such as helium and
> hydrogen for lift, and can stay aloft for 60 hours or more. The balloon
> that flies the furthest – in accordance with the rules – wins. Some
> America’s Challenge flights reach Canada and the U.S. East Coast. The
> gas balloons inflate in the late afternoon and take off in the early
> evening – timing that increases the balloons’ flight duration.
>
> should be cool,, i wonder what altitudes they will be flying at/
>
> Joe & NSS
>
> Mike Manes wrote:
>> Hi Jay,
>>
>> I take it that the gas balloon launch isn't scheduled until Monday 10/8
>> evening about sunset, correct?
>>
>> 73 de Mike W5VSI, EOSS
>>
>> Jay Miller wrote:
>>
>>> http://www.balloonfiesta.com/Gas/tracking/index.html
>>>
>>> The Gas Balloons are scheduled for departure approximately 6:30 PM

>>> Mountain Daylight Time on Oct. 8, 2007 from the Albuquerque Balloon
>>> Fiesta Park.
>>>
>>>
>>> The weather is favorable for a flight path to the US East Coast. All
>>> Balloons are carrying APRS equipment and they have at least one Ham on
>>> board.
>>>
>>> http://www.gasballooning.org/
>>>
>>> Both of the Albuquerque, NM Gas Balloon repeaters have echolink & IRLP
>>> access (KB5GAS, repeater trustee is WA5SJW).
>>>
>>> Periodically check the following web page for updates;
>>>
>>> http://www.balloonfiesta.com/ click on the gas balloons then live
>>> tracking.
>>>
>>> ...Jay WA5WHN
>>>
>>>
>>>
>>>
>>>
>>> To start sending messages to members of this group,
>>> simply send email to
>>>
>>> Ballooning@yahoogroups.com
>>>
>>> If you do not wish to belong to Ballooning, you may
>>> unsubscribe by sending an email to
>>>
>>> Ballooning-unsubscribe@yahoogroups.com
>>>
>>> You may also visit the eGroups web site to modify your
>>> subscriptions:
>>>
>>> http://groups.yahoo.com/group/Ballooning
>>>
>>> To email the list Owner, just send a message to the
>>> following address:
>>>
>>> Ballooning-owner@yahoogroups.com
>>>
>>>
>>> Regards,
>>>
>>> Moderator, Ballooning
>>>
>>>

>>>
>>> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3719. News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-08 04:13:08 UTC
From: Brek Brixius
Topic: 3719 Message: 3719

Hi everyone:

My wife Angie and I took and passed out General license exams today. :) We are feeling pretty good about that and wanted to share the news with the group.

Regarding balloon news, we have been asked to speak to the Hot Springs South Dakota Amateur Radio Club about ballooning. At one time there was going to be a CD or DVD about GPSL 2007. Did it get finished? If I could get a copy, it would be nice to share with the Hot Springs Club. :)

73 Everyone
Brek - KC0YOE /AG

Pinpoint customers who are looking for what you sell.

3720. RE: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-08 10:56:06 UTC
From: Roger Hammond
Topic: 3719 Message: 3720

Congratulations to you and Angie on your new HF privileges!

I haven't gotten around to finishing up the GPSL disc...it ended up on the back burner because of vacation, home improvements, among other things. I was hoping another group or two might contribute some of their photos, data, etc., but I think I've got what I'm going to get. It won't be a formal presentation, but just a collection of what's been uploaded to the GPSL ftp site. I could probably burn something to a disc for you sometime this week, or if you'd like, you could download the contents of the ftp site and burn one yourself.

You're welcome to join us at 6:30 central time every evening on 3.982 MHz for the Nebraska Storm Net. I'm net control on Mondays.

Again, congratulation to you both on your achievement!

Roger KCØMWM
www.cnnsp.org

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Sunday, October 07, 2007 11:13 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] News to share

Hi everyone:

My wife Angie and I took and passed out General license exams today. :) We are feeling pretty good about that and wanted to share the news with the group.

Regarding balloon news, we have been asked to speak to the Hot Springs South Dakota Amateur Radio Club about ballooning. At one time there was going to be a CD or DVD about GPSL 2007. Did it get finished? If I could get a copy, it would be nice to share with the Hot Springs Club. :)

73 Everyone
Brek - KC0YOE /AG

Pinpoint
<http://us.rd.yahoo.com/evt=48250/*http://searchmarketing.yahoo.com/arp/sponsoredsearch_v9.php?o=US2226&cmp=Yahoo&ctv=AprNI&s=Y&s2=EM&b=50> customers who are looking for what you sell.

3721. AIBF gas balloon race

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-08 17:52:45 UTC
From: K. Mark Caviezel
Topic: 3721 Message: 3721

>>Solar heating during the next day can
take 'em above the open gondola altitude limit of
15K' MSL,

>>>>>>>>>>>>> There is no such limit. Open basket
flights have been made to over 50,000 feet. The
America's Challenge gas balloon pilots, however, are
limited by the rules of the event to <18,000 feet.

- Mark Caviezel ng0x

3722. Re: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-08 19:41:10 UTC
From: Mike Manes
Topic: 3719 Message: 3722

Hey, congratulations to you and Angie! Nicely done, folks. Now I expect you'll be budgeting some of your balloonacy bucks to get on HF, right? Hope your QTH isn't in antenna-whiner land.

I just did a ppt presentation for the QCWA last week, and I could email you that - it's about 6 megs, and I could also zip it. It just covers ARHAB history and development to date with emphasis on use of ham radio. There's a bit of EOSS-specific stuff in there, plus a link to Bill Brown's YouTube video of his first flight in '87.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> Hi everyone:
>
> My wife Angie and I took and passed out General license exams today.
> :) We are feeling pretty good about that and wanted to share the news
> with the group.
>
> Regarding balloon news, we have been asked to speak to the Hot Springs
> South Dakota Amateur Radio Club about ballooning. At one time there was
> going to be a CD or DVD about GPSL 2007. Did it get finished? If I
> could get a copy, it would be nice to share with the Hot Springs Club. :)
>
> 73 Everyone
> Brek - KC0YOE /AG
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3723. Re: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-08 18:49:23 UTC
From: Wayne Helms
Topic: 3719 Message: 3723

i would like a ziped copy too........

kc5wxc
----- Original Message -----
From: Mike Manes
To: Brek Brixius KC0YOE - BUNS
Cc: GPSL@yahoogroups.com ; EOSS membership reflector
Sent: Monday, October 08, 2007 2:41 PM
Subject: Re: [GPSL] News to share

Hey, congratulations to you and Angie! Nicely done, folks. Now I
expect you'll be budgeting some of your balloonacy bucks to get on HF,
right? Hope your QTH isn't in antenna-whiner land.

I just did a ppt presentation for the QCWA last week, and I could email
you that - it's about 6 megs, and I could also zip it. It just covers
ARHAB history and development to date with emphasis on use of ham radio.
There's a bit of EOSS-specific stuff in there, plus a link to Bill
Brown's YouTube video of his first flight in '87.

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
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> My wife Angie and I took and passed out General license exams today.
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> with the group.
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> Regarding balloon news, we have been asked to speak to the Hot Springs
> South Dakota Amateur Radio Club about ballooning. At one time there was
> going to be a CD or DVD about GPSL 2007. Did it get finished? If I
> could get a copy, it would be nice to share with the Hot Springs Club. :)
>
> 73 Everyone
> Brek - KC0YOE /AG
--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3724. Re: Gas Balloons departing in sequence

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-09 02:00:42 UTC
From: Mike Manes
Topic: 3724 Message: 3724

Thanks, Jay
Cc-ing the rest of the world.
73 de Mike W5VSI

Jay Miller wrote:
> Mike,
>
> I can confirm 6:30 PM MDT first gas balloon departure this evening from
> the Albuquerque Balloon Fiesta Park.
>
> ...Jay
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3725. America's Challenge race underway

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-09 10:16:23 UTC
From: Mark Conner
Topic: 3725 Message: 3725

http://www.balloonfiesta.com/Gas/tracking/

Interesting race tactics at work already. Two balloons are sticking close to ABQ this morning, presumably to catch more favorable winds than if they had gone north to Colorado.

The more northern group should turn easterly today, coming into northwestern Kansas/southwestern Nebraska tonight. I haven't run detailed predictions to see exactly where they might go, however.

They have APRS trackers on 144.39 with callsigns K5GAS-*.

73 de Mark N9XTN

3726. RE: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-09 13:08:41 UTC
From: Brek Brixius
Topic: 3719 Message: 3726

Thanks Roger.

Don't go to any trouble. I can FTP the content that is there.

Brek.

Roger Hammond <rahammond@...> wrote:
Congratulations to you and Angie on your new HF privileges!

I haven't gotten around to finishing up the GPSL disc...it ended up on the back burner because of vacation, home improvements, among other things. I was hoping another group or two might contribute some of their photos, data, etc., but I think I've got what I'm going to get. It won't be a formal presentation, but just a collection of what's been uploaded to the GPSL ftp site. I could probably burn something to a disc for you sometime this week, or if you'd like, you could download the contents of the ftp site and burn one yourself.

You're welcome to join us at 6:30 central time every evening on 3.982 MHz for the Nebraska Storm Net. I'm net control on Mondays.

Again, congratulation to you both on your achievement!

Roger KC?MWM
www.cnnsp.org

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Brek Brixius
Sent: Sunday, October 07, 2007 11:13 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] News to share

Hi everyone:

My wife Angie and I took and passed out General license exams today. :) We are feeling pretty good about that and wanted to share the news with the group.

Regarding balloon news, we have been asked to speak to the Hot Springs South Dakota Amateur Radio Club about ballooning. At one time there was going to be a CD or DVD about GPSL 2007. Did it get finished? If I could get a copy, it would be nice to share with the Hot Springs Club. :)

73 Everyone
Brek - KC0YOE /AG

Pinpoint customers who are looking for what you sell.

Fussy? Opinionated? Impossible to please? Perfect. Join Yahoo!'s user panel and lay it on

us.

3727. Cross-reference of gas balloon teams and K5GAS-n call signs

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-09 15:22:36 UTC
From: Ralph Wallio, W0RPK
Topic: 3727 Message: 3727

K5GAS-2
(AC-1) Cayton - Enloe

K5GAS-3
(AC-2) Fricke - Cuneo

K5GAS-1 (landed)
(AC-3) Boylan - Bradley

K5GAS-6
(AC-4) Abruzzo - Davis

K5GAS-5
(AC-5) Wallace - Brielmann

K5GAS-7
(AC-6) Hale - Herschend

K5GAS-4
(AC-7) Vitanza - Padelt

K5GAS-8
(AC-8) Stuerzlinger - Meierhofer

K5GAS-10
(AC-9) MacNutt - Bryant

K5GAS-9
(AC-10) Sullivan - White

All flights on the same FINDU map:
http://findu.com/cgi-bin/find.cgi?call=k5gas-1,k5gas-2,k5gas-3,k5gas-4,k5gas-5,k5gas-6,k5gas-7,k5gas-8,k5gas-9,k5gas-10

Another composite map with tracks:
http://www.balloonfiesta.com/Gas/tracking/

NOTE: Position reporting for K5GAS-7 (Team AC-7) stopped at 10:32UT. Note AC-7 icon is not at the
distant end of its alleged track.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3728. Re: [GPSL] Cross-reference of gas balloon teams and K5GAS-n call signs

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-09 15:53:14 UTC
From: mconner1@gmail.com
Topic: 3727 Message: 3728

AC-3 cancelled prior to launch.

Also, there was a note last night around 11pm that they were having trouble updating the balloonfiesta.com tracking website. It's possible they get updated posits by non-APRS means, so the findu.com and balloonfiesta.com maps won't always match.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
Date: Tuesday, October 9, 2007 10:32 am
Subject: [GPSL] Cross-reference of gas balloon teams and K5GAS-n call signs
To: GPSL <GPSL@yahoogroups.com>

> K5GAS-2
> (AC-1) Cayton - Enloe
>
> K5GAS-3
> (AC-2) Fricke - Cuneo
>
> K5GAS-1 (landed)
> (AC-3) Boylan - Bradley
>
> K5GAS-6
> (AC-4) Abruzzo - Davis
>
> K5GAS-5
> (AC-5) Wallace - Brielmann
>
> K5GAS-7
> (AC-6) Hale - Herschend
>
> K5GAS-4
> (AC-7) Vitanza - Padelt
>
> K5GAS-8
> (AC-8) Stuerzlinger - Meierhofer
>
> K5GAS-10
> (AC-9) MacNutt - Bryant
>
> K5GAS-9
> (AC-10) Sullivan - White
>
>
> All flights on the same FINDU map:

> http://findu.com/cgi-bin/find.cgi?call=k5gas-1,k5gas-2,k5gas-
> 3,k5gas-4,k5gas-5,k5gas-6,k5gas-7,k5gas-8,k5gas-9,k5gas-10
>
> Another composite map with tracks:
> http://www.balloonfiesta.com/Gas/tracking/
>
> NOTE: Position reporting for K5GAS-7 (Team AC-7) stopped at
> 10:32UT. Note AC-7 icon is not at the
> distant end of its alleged track.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

3729. Re: Cross-reference of gas balloon teams and K5GAS-n call signs

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-10 19:00:53 UTC
From: Hank
Topic: 3727 Message: 3729

> Also, there was a note last night around 11pm that they were
> having trouble updating the balloonfiesta.com tracking website.

Mark,

Did you receive that note by email as a result of registering at
the website?

Hank

3730. Re: [GPSL] Re: Cross-reference of gas balloon teams and K5GAS-n call signs

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-10 19:18:30 UTC
From: mconner1@gmail.com
Topic: 3727 Message: 3730

No, that thing about the tracking was posted either at the top of the tracking page or was buried in one of the press releases - I can't remember which.

End of this race is going to be very interesting. The AC-1 crew headed north through the Nebraska panhandle has evidently had to stay low today in order to do that (winds low are from the south, higher up from the WNW). When they cool off tonight, they may well have to land unless they have a lot of ballast. Appears AC-7 tried to stay low this morning but couldn't and is now behind AC-2. AC-2 may be high enough that if they can get through tonight, they could win if AC-1 has to land this evening. I think AC-8 is out of the running unless they can go well into tomorrow - it almost seems they had a problem gaining any altitude at all.

I forecasted for one of the AC teams last year (Critelli/MacNutt), which was a lot of fun. One of they guys here at work forecasted for AC-5 this year. He said most of the teams that landed in CO had to do so last night as they couldn't get over the Continental Divide at night. AC-5 hoped to stay a bit farther west and end up around Rawlins but just couldn't get the wind right to stay far enough west.

73 de Mark N9XTN

----- Original Message -----
From: Hank <n1ltv@...>
Date: Wednesday, October 10, 2007 2:04 pm
Subject: [GPSL] Re: Cross-reference of gas balloon teams and K5GAS-n call signs
To: GPSL@yahoogroups.com

> > Also, there was a note last night around 11pm that they were
> > having trouble updating the balloonfiesta.com tracking website.
>
> Mark,
>
> Did you receive that note by email as a result of registering at
> the website?
>
> Hank
>
>
>
>
> Yahoo! Groups Links
>
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>

3731. Re: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 00:32:43 UTC
From: Mike Manes
Topic: 3719 Message: 3731

It's on its way as we speak.
73 de Mike W5VSI

Wayne Helms wrote:
> *i would like a ziped copy too........*
> **
> *kc5wxc*
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* Brek Brixius KC0YOE - BUNS <mailto:gofly2007@...>
> *Cc:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com> ; EOSS
> membership reflector <mailto:EOSS@yahoogroups.com>
> *Sent:* Monday, October 08, 2007 2:41 PM
> *Subject:* Re: [GPSL] News to share
>
> Hey, congratulations to you and Angie! Nicely done, folks. Now I
> expect you'll be budgeting some of your balloonacy bucks to get on HF,
> right? Hope your QTH isn't in antenna-whiner land.
>
> I just did a ppt presentation for the QCWA last week, and I could email
> you that - it's about 6 megs, and I could also zip it. It just covers
> ARHAB history and development to date with emphasis on use of ham radio.
> There's a bit of EOSS-specific stuff in there, plus a link to Bill
> Brown's YouTube video of his first flight in '87.
>
> 73 de Mike W5VSI, EOSS
>
> Brek Brixius wrote:
> > Hi everyone:
> >
> > My wife Angie and I took and passed out General license exams today.
> > :) We are feeling pretty good about that and wanted to share the
> news
> > with the group.
> >
> > Regarding balloon news, we have been asked to speak to the Hot
> Springs
> > South Dakota Amateur Radio Club about ballooning. At one time
> there was
> > going to be a CD or DVD about GPSL 2007. Did it get finished? If I
> > could get a copy, it would be nice to share with the Hot Springs
> Club. :)
> >
> > 73 Everyone

> > Brek - KC0YOE /AG
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3732. Re: [GPSL] Re: Cross-reference of gas balloon teams and K5GAS-n call signs

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 01:11:26 UTC
From: Mike Manes
Topic: 3727 Message: 3732

Some of the teams that opted to go up the western slope of the Rockies ended
up landing in some pretty rough-looking territory. Not sure how they're
gonna get back down off some of those ridges.

73 de Mike W5VSI

mconner1@... wrote:
> No, that thing about the tracking was posted either at the top of the tracking page or
was buried in one of the press releases - I can't remember which.
>
> End of this race is going to be very interesting. The AC-1 crew headed north through the
Nebraska panhandle has evidently had to stay low today in order to do that (winds low are
from the south, higher up from the WNW). When they cool off tonight, they may well have to
land unless they have a lot of ballast. Appears AC-7 tried to stay low this morning but
couldn't and is now behind AC-2. AC-2 may be high enough that if they can get through
tonight, they could win if AC-1 has to land this evening. I think AC-8 is out of the
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any altitude at all.
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> I forecasted for one of the AC teams last year (Critelli/MacNutt), which was a lot of
fun. One of they guys here at work forecasted for AC-5 this year. He said most of the teams
that landed in CO had to do so last night as they couldn't get over the Continental Divide
at night. AC-5 hoped to stay a bit farther west and end up around Rawlins but just couldn't
get the wind right to stay far enough west.
>
> 73 de Mark N9XTN
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> ----- Original Message -----
> From: Hank <n1ltv@...>
> Date: Wednesday, October 10, 2007 2:04 pm
> Subject: [GPSL] Re: Cross-reference of gas balloon teams and K5GAS-n call signs
> To: GPSL@yahoogroups.com
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>>> Also, there was a note last night around 11pm that they were
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>> Mark,
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>> Did you receive that note by email as a result of registering at
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>> Hank
>>
>>
>>

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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3733. Re: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 00:07:23 UTC
From: Wayne Helms
Topic: 3719 Message: 3733

thanks that must be whats coming thru now.....

73's
kc5wxc
----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Wednesday, October 10, 2007 7:32 PM
Subject: Re: [GPSL] News to share

It's on its way as we speak.
73 de Mike W5VSI

Wayne Helms wrote:
> *i would like a ziped copy too........*
> **
> *kc5wxc*
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* Brek Brixius KC0YOE - BUNS <mailto:gofly2007@...>
> *Cc:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com> ; EOSS
> membership reflector <mailto:EOSS@yahoogroups.com>
> *Sent:* Monday, October 08, 2007 2:41 PM
> *Subject:* Re: [GPSL] News to share
>
> Hey, congratulations to you and Angie! Nicely done, folks. Now I
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> Brown's YouTube video of his first flight in '87.
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> Brek Brixius wrote:
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> > going to be a CD or DVD about GPSL 2007. Did it get finished? If I
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> Club. :)
> >
> > 73 Everyone
> > Brek - KC0YOE /AG
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3734. Re: [GPSL] News to share

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 02:52:59 UTC
From: Mike Manes
Topic: 3719 Message: 3734

De nada, Wayne
BTW, plain ol' ASCII text really saves a lot of I'net email bandwidth.
11K to send 8 words is, ummm, a tad bloated.
73 de Mike W5VSI

Wayne Helms wrote:
> *thanks that must be whats coming thru now.....*
> **
> *73's*
> *kc5wxc*
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Wednesday, October 10, 2007 7:32 PM
> *Subject:* Re: [GPSL] News to share
>
> It's on its way as we speak.
> 73 de Mike W5VSI
>
> Wayne Helms wrote:
> > *i would like a ziped copy too.....*
> > **
> > *kc5wxc*
> >
> > ----- Original Message -----
> > *From:* Mike Manes <mailto:mrmanes@...
> <mailto:mrmanes@...>>
> > *To:* Brek Brixius KC0YOE - BUNS <mailto:gofly2007@...
> <mailto:gofly2007@...>>
> > *Cc:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> <mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>> ; EOSS
> > membership reflector <mailto:EOSS@yahoogroups.com
> <mailto:EOSS%40yahoogroups.com>>
> > *Sent:* Monday, October 08, 2007 2:41 PM
> > *Subject:* Re: [GPSL] News to share
> >
> > Hey, congratulations to you and Angie! Nicely done, folks. Now I
> > expect you'll be budgeting some of your balloonacy bucks to get
> on HF,
> > right? Hope your QTH isn't in antenna-whiner land.
> >
> > I just did a ppt presentation for the QCWA last week, and I could
> email
> > you that - it's about 6 megs, and I could also zip it. It just covers

> > ARHAB history and development to date with emphasis on use of ham
> radio.
> > There's a bit of EOSS-specific stuff in there, plus a link to Bill
> > Brown's YouTube video of his first flight in '87.
> >
> > 73 de Mike W5VSI, EOSS
> >
> > Brek Brixius wrote:
> > > Hi everyone:
> > >
> > > My wife Angie and I took and passed out General license exams
> today.
> > > :) We are feeling pretty good about that and wanted to share the
> > news
> > > with the group.
> > >
> > > Regarding balloon news, we have been asked to speak to the Hot
> > Springs
> > > South Dakota Amateur Radio Club about ballooning. At one time
> > there was
> > > going to be a CD or DVD about GPSL 2007. Did it get finished? If I
> > > could get a copy, it would be nice to share with the Hot Springs
> > Club. :)
> > >
> > > 73 Everyone
> > > Brek - KC0YOE /AG
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com>
> <mailto:mrmanes%40gmail.com> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
> >
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3735. Fw: QCWA Digest, Vol 42, Issue 7

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 13:23:21 UTC
From: Ralph Wallio, W0RPK
Topic: 3735 Message: 3735

Forwarded from the QCWA e-mail list. -- Ralph W0RPK

Date: Wed, 10 Oct 2007 04:41:55 -0400
From: Richard Rucker <rrucker@...>
Subject: [QCWA] Elmering 4th & 5th graders in "near space"
applications of amateur radio

The following is about an after-school science program, Near Space
Explorers (NSE), started this year by Matt Nowinski whose daughter is
one of the students. Details are found here:

http://nearspace.dyndns.org:8080/

Matt and the kids are now planning to develop an experiment to be
carried aloft by a future balloon launch by the Vienna Wireless
Society. Its website can be found here:

http://www.viennawireless.org/

More on VWS's past balloon flights can be found here:

http://www.viennawireless.org/balloon/index.php

I learned about this great idea via the following email message. I
trust you will be as intrigued by this idea as I am.

73, Dick Rucker, KM4ML
QCWA Vic Clark Chapter 91
http://homepage.mac.com/rrucker/chapter91/

Begin forwarded message:

> From: "Matthew Nowinski" <mcnowinski@...>
> Date: October 8, 2007 10:54:40 PM EDT
> To: Balloon@...
> Subject: Re: [Balloon] report from 21 Sept meeting
>
>> School Presentation: Dan, Phil and Matt - what is a good day to
>> have a
>> couple VWS members show up at school to present photos and a story
>> for
>> the school kids?

Dan and Phil are two of the Elmers from VWS:
Dan Sullivan, KO1D
Phil Wherry, AI4JF

> All,
>
> NSE had its first meeting this past Friday. We had 14 4th and 5th
> graders show up along with their parents for a kickoff organizational
> meeting. We talked about "near space", some of the space-related
> activities we have planned, as well as (of course) the "Seeds In
> Space"
> experiment and the balloon launch. We also spent a little bit of time
> talking about VWS, who you guys are, and what you do. Several of the
> kids were very fascinated by the tracking/telemetry aspects of the
> balloon mission, so I think you may just have a few potential amateur
> radio recruits in the bunch!

> See schedule online at 4:15PM - 5:30PM at Algonkian Elementary School
> in Sterling, VA. We are also planning some "field trips" including a
> trip to the National Weather Service in Sterling, VA (with a weather
> balloon launch after the tour!) and to the Iridium Satellite Control
> Center in Landsdowne, VA (thanks to some Boeing colleagues). I also
> wanted to re-engage with you guys regarding an amateur radio
> presentation to our group. If Fridays don't work, we can shift our
> weekly meeting to suit your schedule. Let me know what might work best
> for you.
>
> I will continue to keep you up to date from time to time on what we
> are
> up to. This Friday, we will be "launching" some party balloons!
>
> Thanks,
>
> matt

3736. One gas balloon still aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 13:35:22 UTC
From: mconner1@gmail.com
Topic: 3736 Message: 3736

Last report in FindU is from about 1215Z, but they're in a sparse area for APRS. I was amazed to see they were still airborne this morning - I figured they would have landed last evening too. Passing 60 hours of being aloft.

73 de Mark N9XTN

6:01am Thu, 10/11
Subject: Last Balloon Still Flying In America’s Challenge
Headline: Cayton Crosses Into Canada
Web: BalloonFiesta.com

As day breaks over the U.S. Canadian border, the last America’s Challenge Gas Race balloon still aloft is headed into the Canadian province of Saskatchawan.

Andy Cayton and Stuart Enloe (Team 1) have been streaking northward in the fastest winds seen during the entire race, in excess of 30 mph. They are already the apparent winners, having flown twice as far as any other competitor, and have been aloft more than 59 hours.

The second place team of Barbara Fricke and Peter Cuneo (Team 2) and the third place team, Gerald Stuerzlinger and Helmut Meierhofer (Team 8), both landed late yesterday afternoon.

The race isn’t over, of course, until the last balloon lands safely. It is now morning in the Great Plains, making it easier for the pilots to select a landing site when they are ready to end their flight.

You can follow Cayton and Enloe’s progress today via live tracking on the Balloon Fiesta Web site, www.balloonfiesta.com.

3737. Re: [GPSL] One gas balloon still aloft

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-11 19:32:17 UTC
From: Mike Manes
Topic: 3736 Message: 3737

Looks like AC-1 has finally landed in Saskatchewan after 1054 miles of flight.
Betcha they're kinda tuckered out, eh?

783 de Mike W5VSI

mconner1@gmail.com wrote:
> Last report in FindU is from about 1215Z, but they're in a sparse area for APRS. I was amazed to see they were still airborne this morning - I figured they would have landed last evening too. Passing 60 hours of being aloft.
>
> 73 de Mark N9XTN
>
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>
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>
> Andy Cayton and Stuart Enloe (Team 1) have been streaking northward in the fastest winds seen during the entire race, in excess of 30 mph. They are already the apparent winners, having flown twice as far as any other competitor, and have been aloft more than 59 hours.
>
> The second place team of Barbara Fricke and Peter Cuneo (Team 2) and the third place team, Gerald Stuerzlinger and Helmut Meierhofer (Team 8), both landed late yesterday afternoon.
>
> The race isn’t over, of course, until the last balloon lands safely. It is now morning in the Great Plains, making it easier for the pilots to select a landing site when they are ready to end their flight.
>
> You can follow Cayton and Enloe’s progress today via live tracking on the Balloon Fiesta Web site, www.balloonfiesta.com.
>
>
>
>
> Yahoo! Groups Links
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>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

3738. Re: [Balloon_Sked] Fwd: O.T.Atmospheric Satellite (Research Balloon)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-13 05:26:54 UTC
From: Mike Manes
Topic: 3738 Message: 3738

Could very likely have been one of the 70 or so NWS radiosondes that the NWS launches twice daily all over CONUS. Based on your 0040Z observation, it coulda been a 0000Z RAOB bursting low.

The big scientific stuff flown by NASA out of Palestine TX and Ft Sumner NM are plastics, and they don't burst - they vent the fill gas thru a hole near the top.

73 de Mike W5VSI, EOSS

Greg Williams wrote:
> The following was posted on a Satellite Observers mailing list I'm on.
>
> Does anyone have a suggestion as to whom might have been running this
> balloon?
>
> Location at bottom of msg.
>
> Greg
>
>
> Hi.All
> I had an interesting observation right at around
> sunset this evening around 00:40UT 10/12/2007 of a
> atmospheric satellite (research balloon).Not uncommon
> here in far west Texas but this balloon's envelope
> exploded.In my 10x50 binoculars I could see many
> fragments of the balloon's envelope and a cloud left
> over by the explosion and also observed the payload
> falling away from the balloon fragments.I check the
> NASA launch site Fort Sumner in New Mexico to see if
> they had anything flying but they had nothing up since
> 10/4/2007.Also checked the New Mexico State University
> to see if they were flying but I could find an posting
> for a launch.I am guessing this may have came out of
> the White Sands Missile Range but most likely could
> not get them to tell anyone if they had any balloon
> flying.National Security and all that.One interesting
> note is it look very much to me that the payload
> parachute did not fully deploy or at least as long as
> I observed it.Very Cool!
> Thomas Dorman
> Horizon City,Texas
> 31*39.763'N,106*10.690'
> Elevation:1232 meters
>

>
> ---
> Subscribe/Unsubscribe info, Frequently Asked Questions, SeeSat-L archive:
> http://www.satobs.org/seesat/seesatindex.html
>
>
>
>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3739. Re: [GPSL] Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-14 00:51:07 UTC
From: Kent Ochs
Topic: 1887 Message: 3739

Gene,

How have you been? Just wanted to drop you a quick note that Ryan and I will be doing a JOTA event at Camp Lakota in Woodstock next weekend. It will be held in conjunction with a Webelos Weekend event. We will have a chance to introduce ~200 scouts and their parents to amateur radio.

We will be integrating ATV into the program in the form of a remote control truck running an ATV transmitter. Not that this is revolutionary. If you are looking for some news for your next edition, please come out and pay us a visit.

Hope to see you there.

Kent Ochs
W9KAO

----- Original Message ----
From: Gene Harlan <atvq@...>
To: Ballooning <Ballooning@yahoogroups.com>; BATS mailing list <BATS@...>; EOSS balloons <EOSS@yahoogroups.com>; GPSL <GPSL@yahoogroups.com>; Tenn Balloon <tnballoon@yahoogroups.com>; ATV KD4MOJ <atv@...>; ATV K4TTT List <atv@...>; Arizona-Ham-TV <Arizona-Ham-TV@yahoogroups.com>
Sent: Tuesday, September 25, 2007 11:02:41 PM
Subject: [GPSL] Amateur Television Quarterly

One more call for any last minute articles for the Fall 2007 issue of Amateur Television Quarterly. I am starting to put together the new issue and will really get into it next week.

Let me know if something will be coming.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs. com
atvq@hampubs. com
815-398-2683 - voice
815-398-2688 - fax

3740. Re: [Ballooning] 1000 Mile balloon Flight!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-14 20:37:23 UTC
From: Mike Manes
Topic: 3740 Message: 3740

Hi Joe,

I think you're right about that one going "superpressure", and if so, then considering that party balloons are filled nearly to capacity, then it would have gone into float at a pretty low altitude, I'm guessing. That would be the altitude where the mass air it displaced equaled the mass of the full balloon and gas.

Might be interesting to strap a pico APRS beacon on one to see what it does :=}. A true high-altitude superpressure is likely beyond ARHAB means.

73 de Mike W5VSI

Joe wrote:
> I wonder how high a "Party" type of looks like a mylar balloon gets,
> before it levels off. i'm assuming since it a mylar balloon it may
> actually became a true superpressure balloon, till it finally leaked
> enough to come down.
>
> sounds like a super challenge for Mr Bill, (ohhh Nooo!!) to try to make
> a trajectory path.
>
> Joe
>
> Mike Manes wrote:
>> Hmmm ... intriguing. I'm kinda guessing NNW. Not unreasonable before the
>> fall turnaround.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> Hi Guys! check out the video below, it's from a local station up here,
>>>
>>> anyone able to check out the possible path this thing took, we have a
>>> launch date and a find date. it would be cool to see what possible path
>>> it took to go from mississippi to wisconsin
>>>
>>> http://www.wkbt.com/Global/category.asp?C=50799&nav=menu239_5_2
>>>
>>> Joe & NSS
>>>
>>>
>>> To start sending messages to members of this group,
>>> simply send email to

>>>
>>> Ballooning@yahoogroups.com
>>>
>>> If you do not wish to belong to Ballooning, you may
>>> unsubscribe by sending an email to
>>>
>>> Ballooning-unsubscribe@yahoogroups.com
>>>
>>> You may also visit the eGroups web site to modify your
>>> subscriptions:
>>>
>>> http://groups.yahoo.com/group/Ballooning
>>>
>>> To email the list Owner, just send a message to the
>>> following address:
>>>
>>> Ballooning-owner@yahoogroups.com
>>>
>>>
>>> Regards,
>>>
>>> Moderator, Ballooning
>>>
>>>
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>>> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3741. Re: [GPSL] Re: [Ballooning] 1000 Mile balloon Flight!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-14 20:03:37 UTC
From: wb8elk@aol.com
Topic: 3740 Message: 3741

The party balloon superpressure experiment is something a couple of us here are considering soon....basically a whole bunch of the larger mylar party balloons from Target with a lightweight APRS....my guess is that they don't go more than a few thousand feet up before leveling out.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3742. Re: [GPSL] Re: [Ballooning] 1000 Mile balloon Flight!

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-14 20:28:58 UTC
From: Harry M
Topic: 3740 Message: 3742

ORB-1 thru ORB-4 were 4 foot party balloons with simple can oscillators, so we did not get real-time altitude. I did however get time and approx. elev. in deg. from several DFing chase members. With that info I was able to estimate that the balloons went somewhere between 15,000 ft and 30,000 feet.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3743. ARBONET-2 Launch Announcement

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-14 20:40:34 UTC
From: Doug Loughmiller
Topic: 3743 Message: 3743

ARBONET-2 High Altitude Balloon Flight Set for an October 20th Launch

Members of the ARBONET (Amateur Radio Balloons Over NorthEast Texas) organization are making final preparations for the October 20th launch of ARBONET-2. Originally scheduled for launch last spring, ARBONET-2 is being dedicated to the memory of Kim R. Miles, N9IS SK, a long time contributor to the central Indiana Windtrax Amateur Radio High Altitude Balloon team who passed away March 27th at the age of 51.

ARBONET-2 will be launched from the JD Trissell Airport in Clarksville, TX which is located in the northeast corner of the Lone Star State. Launch time is scheduled for 9:30 AM CDT on Saturday October 20th. Current winds aloft forecasts indicate the ground track of the flight will carry the amateur payloads towards the Texas - Louisiana state line. If ARBONET-2 reaches its expected altitude of 96,000 ft, radio amateurs in parts of as many as seven states should be able to monitor the beacons and communicate through the cross band repeater onboard the near space vehicle.

The compliment of payloads aboard ARBONET-2 includes:

A plain language homing beacon that will transmit navigation data to the ground on 146.560 MHz in plain English thus allowing anyone with a scanner or 2 meter hand-held in the coverage zone to follow the progress of the flight without the need for additional equipment to process the data.

An APRS beacon operating on 144.390 MHz to report vehicle location data throughout the duration of the flight and to aid in the recovery of the packages following descent.

A 70 cm Up / 2 meter Down Cross band FM repeater (445.800MHz Up 147.560 MHz Down) will support two way communications during the duration of the ARBONET-2 flight.

A 10 meter CW beacon experiment produced by the Richardson Wireless Klub, K5RWK will transmit a 500 milliwatt signal on 28.061 MHZ.

In addition, ARBONET-2 will carry a number of secondary payloads that will perform remote data collection functions for analysis once the payloads are recovered. These payloads include a 4 mega pixel digital camera configured to capture images every 30 seconds through the duration of the flight, a self contained balloon burst video system designed to capture images of the balloon burst event and other environmental data loggers.

Operators are encouraged to submit reception reports from the ARBONET-2 flight to team members via the ARBONET web site: www.arbonet.net <http://www.arbonet.net/> . A special commemorative QSL card will be made available to everyone who submits reception reports to the ARBONET team.

An ARBONET Launch Information HF net will be held on 3.910 MHz (+/- 10 KHz) beginning at 9:00 AM CDT to report the progress of flight preparations and to provide real time coverage of the expected two and a half hour flight.

The ARBONET team encourages radio amateurs throughout the flight's coverage zone to make use of the payloads aboard ARBONET-2.

Additional updates will be posted to the ARBONET web site in the days leading up to the mission. In the event weather conditions cause a postponement of the launch, the next launch attempt is scheduled for the following Saturday, October 27th.

73,

Doug Loughmiller, W5BL

8812 Harmony Drive

McKinney, TX 75070

214-455-7071

3744. Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 16:05:45 UTC
From: Ralph Wallio, W0RPK
Topic: 3744 Message: 3744

There are projects underway by multiple groups for transatlantic flight attempts as early as this
winter. I propose we bestow honors on those groups that make valid attempts and bestow more significant honors when the battle is finally won.

I propose the following conditions and rules to validate attempts by groups that wish to participate
in this endeavor:

1] Plastic Balloons, whether zero-pressure or super-pressure, must be designed and fabricated by
members of the group. A given member may not participate in multiple groups but free informal
consulting is allowed. (Use of stock manufactured latex or equivalent sounding balloons, e.g.,
boost and main, would be allowed.)

2] Successful received and reported periodic position reporting must not exceed 2-hour intervals
and -has to be- via Ham Radio licensing, frequencies, modes, etc.

3] The floating phase of flights must be above 60,000ftASL (above controlled airspace). Floating
phase starts when ascent stops the first time after launch.

4] Flights can be launched from anywhere west of 60dW longitude with the ultimate goal of landing
on dry land east of 15dW longitude (or the small portion of the African coast that is slightly west
of 15dW).

5] Flights will be declared valid attempts after floating a minimum of 1,000mi -and- transiting
over international Atlantic ocean waters.

6] All technology, tricks, fantastic ideas, et al., used for valid attempts has to be in the public
domain and thoroughly discussed in group web pages.

Comments ... ?

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3745. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 16:10:31 UTC
From: PAUL VERHAGE
Topic: 3744 Message: 3745

I like them. I'd also like to write an article on the first balloon to make it for Nuts ands Volts.

Paul

>>> "Ralph Wallio, W0RPK" <W0RPK@...> 10/15/2007 10:05 AM >>>
There are projects underway by multiple groups for transatlantic flight attempts as early as this
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Comments ... ?

TNX es 73 de Ralph Wallio, WØRPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

Yahoo! Groups Links

3746. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 16:13:37 UTC
From: Robert Rochte
Topic: 3744 Message: 3746
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3747. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 16:18:11 UTC
From: PAUL VERHAGE
Topic: 3744 Message: 3747
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3748. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 16:31:23 UTC
From: mconner1@gmail.com
Topic: 3744 Message: 3748

I echo Robert's comments on Rule #3. At the same time, however, we should encourage the avoidance of jet altitudes especially when the track would parallel the commonly used north Atlantic jet routes. A 40kft floater that were to cross the Atlantic at say 35 deg N would be less problematic than one heading northeast from Boston. Perhaps we can mark off certain areas/altitude ranges of the Atlantic as being "no-fly" areas for the record.

Is Rule #1 necessary, especially when latex balloons are exempted? I doubt anyone is going to use a commercially-produced balloon for this effort due to cost and the fact the prime supplier is unlikely to sell to a hobbyist, but I see no particular reason that one individual or group couldn't produce a plastic balloon for another to fly.

73 de Mark N9XTN

----- Original Message -----
From: "Ralph Wallio, W0RPK" <W0RPK@...>
Date: Monday, October 15, 2007 11:12 am
Subject: [GPSL] Trans Atlantic flight rules proposal
To: GPSL <GPSL@yahoogroups.com>
Cc: "Andy MacAllister,W5ACM" <Andrew.MacAllister@...>, "Pete Sias, N0OY" <petesias@...>

> There are projects underway by multiple groups for transatlantic
> flight attempts as early as this
> winter. I propose we bestow honors on those groups that make
> valid attempts and bestow more
> significant honors when the battle is finally won.
>
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> equivalent sounding balloons, e.g.,
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> 2] Successful received and reported periodic position reporting
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> 3] The floating phase of flights must be above 60,000ftASL (above
> controlled airspace). Floating
> phase starts when ascent stops the first time after launch.
>

> 4] Flights can be launched from anywhere west of 60dW longitude
> with the ultimate goal of landing
> on dry land east of 15dW longitude (or the small portion of the
> African coast that is slightly west
> of 15dW).
>
> 5] Flights will be declared valid attempts after floating a
> minimum of 1,000mi -and- transiting
> over international Atlantic ocean waters.
>
> 6] All technology, tricks, fantastic ideas, et al., used for
> valid attempts has to be in the public
> domain and thoroughly discussed in group web pages.
>
> Comments ... ?
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
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> Yahoo! Groups Links
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>

3749. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 16:30:40 UTC
From: Robert Rochte
Topic: 3744 Message: 3749
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3750. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 17:03:59 UTC
From: Michael Gray
Topic: 3744 Message: 3750

Ralph,

As always, thanks for thinking about and putting together good flight ideas. Just a few comments.

Rule #1 - It would make it difficult for a number of groups that rely on the one or two other people that build balloons. I like to build payloads, but don't have the experience or desire to melt plastic into a balloon shape. As long as everyone gets credit, that is what should count.

2. I like the two hour reporting interval, but HF is the only mode that will work across the water. I don't know of many groups that have flown a GPS based HF beacon. It might be nice to be able to use a non-ham mode as well. At least for a backup.

3. I'll echo the same comments as the previous guys. I'd like to float down lower and in faster air. Avoiding the cross routes makes good planning.

4/5. For the West groups (ANSR/EOSS), we'll be starting at 100+dW. If we fly from Arizona/Colorado to waters off the US coast, does that count? Although that really isn't trans-atlantic. But still a good 1500 miles run.

6. Time to finish up the HF beacon....

73s de KD7LMO

On Mon, 15 Oct 2007 mconner1@... wrote:

> I echo Robert's comments on Rule #3. At the same time, however, we
> should encourage the avoidance of jet altitudes especially when the
> track would parallel the commonly used north Atlantic jet routes. A
> 40kft floater that were to cross the Atlantic at say 35 deg N would be
> less problematic than one heading northeast from Boston. Perhaps we can
> mark off certain areas/altitude ranges of the Atlantic as being "no-fly"
> areas for the record.
>
> Is Rule #1 necessary, especially when latex balloons are exempted? I
> doubt anyone is going to use a commercially-produced balloon for this
> effort due to cost and the fact the prime supplier is unlikely to sell
> to a hobbyist, but I see no particular reason that one individual or
> group couldn't produce a plastic balloon for another to fly.
>
> 73 de Mark N9XTN
>

> ----- Original Message -----
> From: "Ralph Wallio, W0RPK" <W0RPK@...>
> Date: Monday, October 15, 2007 11:12 am
> Subject: [GPSL] Trans Atlantic flight rules proposal
> To: GPSL <GPSL@yahoogroups.com>
> Cc: "Andy MacAllister,W5ACM" <Andrew.MacAllister@...>, "Pete Sias, N0OY" <petesias@...>
>
> > There are projects underway by multiple groups for transatlantic
> > flight attempts as early as this
> > winter. I propose we bestow honors on those groups that make
> > valid attempts and bestow more
> > significant honors when the battle is finally won.
> >
> > I propose the following conditions and rules to validate attempts
> > by groups that wish to participate
> > in this endeavor:
> >
> > 1] Plastic Balloons, whether zero-pressure or super-pressure,
> > must be designed and fabricated by
> > members of the group. A given member may not participate in
> > multiple groups but free informal
> > consulting is allowed. (Use of stock manufactured latex or
> > equivalent sounding balloons, e.g.,
> > boost and main, would be allowed.)
> >
> > 2] Successful received and reported periodic position reporting
> > must not exceed 2-hour intervals
> > and -has to be- via Ham Radio licensing, frequencies, modes, etc.
> >
> > 3] The floating phase of flights must be above 60,000ftASL (above
> > controlled airspace). Floating
> > phase starts when ascent stops the first time after launch.
> >
> > 4] Flights can be launched from anywhere west of 60dW longitude
> > with the ultimate goal of landing
> > on dry land east of 15dW longitude (or the small portion of the
> > African coast that is slightly west
> > of 15dW).
> >
> > 5] Flights will be declared valid attempts after floating a
> > minimum of 1,000mi -and- transiting
> > over international Atlantic ocean waters.
> >
> > 6] All technology, tricks, fantastic ideas, et al., used for
> > valid attempts has to be in the public
> > domain and thoroughly discussed in group web pages.
> >
> > Comments ... ?
> >
> > TNX es 73 de Ralph Wallio, W?RPK

> > W0RPK@...
> > http://showcase.netins.net/web/wallio/
> > Hubbert's Peak - The Mother of all Perfect Storms
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3751. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-15 20:07:05 UTC
From: Joe
Topic: 3744 Message: 3751

I like most of these rules,
seem a good fit..

two things i'd like to add, (maybe?)

Some sort of a scoring thing, to keep track of each flight.. so even the
not successful crossings, or BAD luck winds days still count for
something, or even the flights of recent from the tennessee boys,
like, as you said
"

"The floating phase of flights must be above 60,000ftASL (above controlled airspace).
Floating
phase starts when ascent stops the first time after launch."

A timer starts when "Floating Phase Starts"
And the location is noted at this point also.

Final "Score" is, time in minutes from float to touchdown (Or loss of signal) times miles
traveled from position of float start to again either touchdown, or loss of signal.

what's everyone think?

Joe & NSS

NSS-45 "October Skies" T-8 days and counting.

Ralph Wallio, W0RPK wrote:

>There are projects underway by multiple groups for transatlantic flight attempts as early
as this
>winter. I propose we bestow honors on those groups that make valid attempts and bestow
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>significant honors when the battle is finally won.
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3752. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 01:09:51 UTC
From: Mike Manes
Topic: 3744 Message: 3752

Hi Robert,

I'm guessing that Ralph proposed rule #3 not as a form of self-flagelleation but rather in the interest of being a "good neighbor" in international civil airspace. Note that FAR 101 only applies to the US National Airspace, and its exempt limits are rather liberal compared, e.g., to Canada's. Not sure about other nations, but one possible reason that we don't hear about any ARHAB activity from the UK is that the UK "FAA" and "FCC" prohibit use of ham radio aboard ANY aircraft, balloons included, regardless of size.

Those country-specific issues aside, the 60,000' MSL ceiling is rather broadly recognized as "no man's land" for civil air traffic, however.

In reading thru some of Space Data's US patents, I learned about the Grand-daddy of derelicts - a ZP out of Canada that went deaf & dumb heading out over the Atlantic. ALL air traffic across the northern Atlantic corridor was rerouted for 10 days until the derelict was located. Which may explain in part why Canada's rules are so restrictive.

Another such incident would spell doom for ARHAB everywhere. Let's not commit suicide, OK?

73 de Mike W5VSI

Robert Rochte wrote:
> I like the idea of establishing rules, but I think that #3 is completely
> inappropriate and will kill the competition. Under this rule, almost
> all of Lally's original flights wouldn't qualify - and these flew around
> the world multiple times. I also think that it's entirely unnecessary -
> as long as the flight remains exempt, there is no legal requirement to
> fly above 60k feet.
>
> While I do understand the ARHAB emphasis on keeping flights in
> uncontrolled airspace, I think that we sometimes become dogmatic about
> it... Following the self-imposed limitations of some groups (and again,
> for good reasons), there would be no Lagrangian tracker flights EVER.
>
> So my own suggestion is to remove rule #3 and simply state the flight
> must conform to legal requirements (which include "not operating in a
> way which causes a hazard").
>
> Leave the rule in and you'll have to disqualify all of us who are
> presently working on the problem - and that would be a great disservice
> to the entire ARHAB community.
>
> 73,

> Robert KC8UCH
>
>
> On 10/15/07, *Ralph Wallio, W0RPK* <W0RPK@...
> <mailto:W0RPK@...>> wrote:
>
> There are projects underway by multiple groups for transatlantic
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> mailto: GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
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> --
> Robert Rochte, Director of Technology
> The Grosse Pointe Academy
> +1 313-886-1221 x155 Office
> +1 313-378-0525 Mobile
> "There are only 10 types of people in this world - those who understand
> binary and those who don't."

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3753. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 01:25:56 UTC
From: Robert Rochte
Topic: 3744 Message: 3753

Mike,

I very much respect your opinion on this, but I do not believe that the HUGE derelict to which you're referring (it was over a million cubic feet, IIRC) is in any way comparable to a FAR 101 exempt flight. Not even close - and no air traffic is going to be rerouted around a 125 cubic foot balloon with a 10 oz payload, nor need it be!

I'm not proposing suicide - I'm only suggesting that the rules be reasonable, not cautious to the point of stupid. We're talking about flying a balloon across one of the most uninhabitated parts of the planet - an OCEAN. Is there air traffic? Yes. But it's a big sky up there and we're talking about very, very tiny targets - and these targets (our balloons) will do less damage than a fat pigeon if a collision occurs.

Again, I respect your opinion - I *strongly* disagree with you in this case, but I do understand your concern.

As for international regulations - how, for example, would we deal with an ocean-crossing balloon that penetrates British airspace? You use this as your own example of varying regulations - would such a flight be disqualified?

All this aside, I can tell you that a trans-Atlantic flight is coming and coming very soon... I'd love to see it (whether it's mine or not) on Ralph's page, but if "the rules" get in the way then I really don't care.... Anything after that will be, in the words of Don Piccard, a record achieved by "parting your hair on the other side".

73,
Robert

> In reading thru some of Space Data's US patents, I learned about the
> Grand-daddy of derelicts - a ZP out of Canada that went deaf & dumb
> heading out over the Atlantic. ALL air traffic across the northern
> Atlantic corridor was rerouted for 10 days until the derelict was
> located. Which may explain in part why Canada's rules are so restrictive.
>
> Another such incident would spell doom for ARHAB everywhere. Let's not
> commit suicide, OK?

3754. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 03:31:14 UTC
From: Mike Manes
Topic: 3744 Message: 3754

There's a company in India which recently got into the met and scientific balloon business. I couldn't learn much more about it, but my guess is they wouldn't have any problem selling anything to anyone who had the Rupees.

Space Data uses valved latex with ballast drops to keep their flying cell sites in the stratosphere for at least 3 days. They do make their own balloons, however, with some magic to hold off UV degradation. I think they bought Kaysam's facility.

73 de Mike W5VSI, EOSS

mconner1@... wrote:
> I echo Robert's comments on Rule #3. At the same time, however, we should encourage the avoidance of jet altitudes especially when the track would parallel the commonly used north Atlantic jet routes. A 40kft floater that were to cross the Atlantic at say 35 deg N would be less problematic than one heading northeast from Boston. Perhaps we can mark off certain areas/altitude ranges of the Atlantic as being "no-fly" areas for the record.
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> 73 de Mark N9XTN
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> From: "Ralph Wallio, W0RPK" <W0RPK@...>
> Date: Monday, October 15, 2007 11:12 am
> Subject: [GPSL] Trans Atlantic flight rules proposal
> To: GPSL <GPSL@yahoogroups.com>
> Cc: "Andy MacAllister,W5ACM" <Andrew.MacAllister@...>, "Pete Sias, N0OY" <petesias@...>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3755. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 04:26:46 UTC
From: Mike Manes
Topic: 3744 Message: 3755

Hi Robert,

I may be way wrong, but I really doubt that one could stay exempt with a payload that can survive a multi-day trans-Atlantic crossing and still meet the 2-hr max beaconing interval. There's battery weight, heater, etc to consider, plus ballast if it's a ZP or valved latex.

The airspace over the N Atlantic is heavily inhabited by civil aviation traveling between CONUS and EU, especially between 35 and 40K'. Iceland and Greenland have plenty of overflights.

Yeah, it's a big sky every where. But we've had PIREPS called on visuals to our balloons - even tho they were 40 miles from the aircraft. It doesn't take a midair to screw things up - a hard avoidance maneuver during cabin service, whether necessary or not, could mollux it for all of us. And woe be unto he who does!

Another international consideration is permission to transmit on the ham bands within the various national boundaries. The CEPT license is valid only when accompanied by the operator's passport. Not mine, babe! Space Data takes special care to go QRT before crossing the US border; but they operate under a commercial US license.

And if you run a ham transmitter from a balloon inside UK airspace, you'll be in violation of their laws. Poor form, old chap. Poor form.

As an example of the kind of hoops one must hurldle, consider that Bill WB8ELK had to sail out into the Gulf in order to launch his rockoon.

All I'm saying is that if we're gonna do this and honor folks with public accolades, let's be sure it's done safely and legally.

73 de Mike W5VSI

Robert Rochte wrote:
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> the HUGE derelict to which you're referring (it was over a million
> cubic feet, IIRC) is in any way comparable to a FAR 101 exempt flight.
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> 125 cubic foot balloon with a 10 oz payload, nor need it be!
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> reasonable, not cautious to the point of stupid. We're talking about
> flying a balloon across one of the most uninhabitated parts of the

> planet - an OCEAN. Is there air traffic? Yes. But it's a big sky up
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> targets (our balloons) will do less damage than a fat pigeon if a
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> case, but I do understand your concern.
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> with an ocean-crossing balloon that penetrates British airspace? You
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3756. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 05:49:41 UTC
From: Dan Bowen
Topic: 3744 Message: 3756

Regarding air traffic over the Atlantic, we may be able to act as a peer in the system, and not just an unexpected hazard to navigation. While the FAA rules do refer to manned craft, pilots are well familiar with the right-of-way in the air - you shall give way to the less maneuverable craft (including lighter-than-air craft).

Aircraft travelling oceanic routes are in excellent communication with Air Traffic Control, as well as with aircraft in the vicinity of them. Oceanic flights fly on published (daily) organized North Atlantic Tracks. They split the traffic up like a highway, with eastbound tracks following the jet stream, and the westbound tracks well clear of the jet stream, usually to the north. ATC coordinates flight plans, and then the actual flight's actions, to avoid collisions and maximize efficiency of the airspace. Aircraft are frequently out of range for ATC's radar, and are required to radio their position in very frequently for large portions of the trip. ATC therefore has the easy capability of plotting Altitude/LAT/LON/ speed/heading position reports.

Perhaps we could use the airspace responsibly as if we were private pilots, as we are not that different in speed from small general aviation planes using the same airspace as the commercial jets - the airspace control systems are designed to accommodate both high and low speed traffic by virtue of the continual flow of information between all parties involved. Looking at EOSS's fine published work with their local regional ATC Center, and their live updating FAA info page, this works admirably well already.

With tools like HYSPLIT available to most of us, we can create a fairly good flight plan, even format it like an oceanic flight would, as a series of regular position waypoints, for easy ATC digestion. Just like the commercial traffic, we can check in with ATC every so often with the latest position report (many groups do this already via phone to local towers) and ATC will far in advance adjust an airliner course ever so slightly so they pass around us, just like a slower fellow airplane.

Whether ATC will go along probably depends upon our professionalism and reliability in reporting to them.

What do you guys think?

Thanks,
Dan
K2VOL
UTARC

On Oct 16, 2007, at 12:26 AM, Mike Manes wrote:

> Hi Robert,
>
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> a payload that can survive a multi-day trans-Atlantic crossing and
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>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3757. Transatlantic Rules and the start of the race.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 15:14:22 UTC
From: K. Mark Caviezel
Topic: 3757 Message: 3757

Ralph:
Thanks for putting those draft rules together and sharing them with the community.

As many of you know, I have been building plastic balloons for some time with some excellent successes:
a). two flight with over 150 lbs payload,
b). numerous flights to over 100k feet,
c). one flight in excess of 1000 miles flight distance.

The rules you propose make an already difficult endeavor significantly more difficult. For any successful group to have its achievement undermined or discredited because they were not in compliance with all of these rules would be a shame.

I propose significant simplification: a winning flight be defined as one that makes a launch from the north American continent, overflies the Atlantic and makes a landing on land on the other side.

Additional embedded comments follow:

1] Plastic Balloons, whether zero-pressure or super-pressure, must be designed and fabricated by members of the group. A given member may not participate in multiple groups but free informal consulting is allowed. (Use of stock manufactured latex or equivalent sounding balloons, e.g., boost and main, would be allowed.)
>>>>>>> What is the rationale and motivation and presumed value of this rule? We wouldn't consider requiring the radio equipment, string, wire or batteries to be homebuilt- would we?

2] Successful received and reported periodic position reporting must not exceed 2-hour intervals and -has to be- via Ham Radio licensing, frequencies, modes, etc.
>>>>>>>>>>> I'd like to list this as a recommendation, not as a requirement. The excellent flight and ANSR 33 last year demonstrated a great flight, but with the night time position reports blacked out due to changing propagation. A lightweight VHF/single band HF unit will be smaller,

lighter, cheaper, and more likely to work properly than a fancy multi-band, band-hopping super gizmo (I think).

3] The floating phase of flights must be above 60,000ftASL (above controlled airspace). Floating phase starts when ascent stops the first time after launch.
>>>>>>>>>> If this is adopted as a requirement, it will drive balloon size up, transit time up, speed down, required battery weight up, payload weights will be greater, costs will be higher, and the possibility of doing a sub-12 pound FAA part 101 exempt style mission is reduced. Since a sub-12 pound FAA part 101 exempt style mission is 'in family' with the estimated FOUR MILLION US National Weather Service balloons that have been flown without serious incident in the last 40 years, I respectfully submit that the exposure and risk of some small ARHAB balloons in far less congested airspace is so very low as as to be acceptable by any reasonable estimation of the risks.

5] Flights will be declared valid attempts after floating a minimum of 1,000mi -and- transiting over international Atlantic ocean waters.
>>>>>>> What is the rationale and motivation and presumed value of this rule?

I'll be supporting the UTARC team and Bill WB8ELK in their own transatlantic flight attempts this season. Both parties have mentioned intention to fly an armada of small balloons until success is achieved. In their prior flights, they both have demonstrated 'the right stuff' in spades and I'll wish them the best in their attempts.

If anyone has a starter's pistol- you can fire it now. I am mailing a transatlantic suitable 920 cubic foot balloon to UTARC today.

best regards,

- Mark Caviezel

3758. Re: [GPSL] Transatlantic Rules and the start of the race.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 16:20:03 UTC
From: Robert Rochte
Topic: 3757 Message: 3758

> If anyone has a starter's pistol- you can fire it now.
> I am mailing a transatlantic suitable 920 cubic foot
> balloon to UTARC today.

Okay, fine - I won't sleep for the next week, no problem! The race is on! ;)

3759. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-16 18:53:51 UTC
From: Luis Eduardo Pacheco
Topic: 3744 Message: 3759
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3760. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-17 02:43:35 UTC
From: Mike Manes
Topic: 3744 Message: 3760

Hi Dan,

Hey, thanks for the kind words about EOSS's FAA internet-based reports. We owe Russ KB0TVJ a mess of thanks for mothering that concept into reality - not to mention findu's Steve Dimse.

Out here in Denver ARTCC's area, both center and TRACON controller have adopted use of our APRS beacons I-gated into findu.com, using a special cgi script that converts the positions into radial and range from the user's selected VOR. They like it so much that they REQUIRE us to ensure that our beacons are I-gated! Sure beats the 2-hour interval phone calls, and even the position reports at specified altitude penetrations that were SOP not so long ago. Of course, they'd really prefer that we fly a transponder, but we've explained our objections to the weight and QRM problems that would entail. And recently, Norm Kjome told me that the FAA asked U Wyo to STOP using Mode C altitude reporting, since since that caused the balloon to disappear from the scopes entirely when it passed out of the filter limits for the sector it was in.

Now, of course, they ignore us while we're above FL600 and below 18K' if we're over 20 miles from DIA.

Nonetheless, ARTCC also requires us to time-slot our launches if our trajectory falls anywhere near the DIA approach and departure corridors out 40 - 60 nm. One of those slotting rules stipulates that we don't don't our two-fers closer than 45 minutes apart, so they only have to track one balloon in the heavy corridors at a time. Another is that we should be back on the deck preferably by 1000 local, and NLT 1030 local, to avoid the high-volume DIA traffic. There are earlier and later slots available, but daylight and surface winds pretty much rule those out.

So yeah, if we hang out above FL600 and/or I-gate thru findu, AND all the airspace controllers along the route agree to use the findu reports, then we can be "good neighbors" in trans-Atlantic airspace. That's no easy trick, since we had to do some training with Denver ARTCC just to get to first base; other centers may have adopted that scheme with local ARHAB groups, but I've not yet heard any solid confirmation that they have.

EOSS has worked hard to develop a working relationship with our local FAA folks. It's taken time and plenty of flights, as well as a "Yes sir, yes sir, two bags full" attitude to get there, but it's paid off in the form of blanket COAs for our ordinary heavies.

The next trick is to develop APRS beacons that can reliably hit I-gates 24/7 for the duration of the flight. Do-able, yes, but no mean feat. It's been done using PSK31 on 20m and 10m for a day or so, I think, but not with 100% copy.

And another trick would be to get hitched into the jet stream, and certainly OUT of the summer upper easterlies! But the jet stream's altitude goes well below FL600 in the winter. So it might be necessary to develop some form of altitude control, just like manned balloons (and Space Data) do.

This "Gas-X" prize (ya like that one :=P?) is a worthy pursuit. But its award should be subject to an extraordinary set of rules, along the lines of what Ralph proposes, that reflect the complexity of international ops and to ensure that all the safety and legal I's are crossed and T's dotted.

73 de Mike W5VSI

Dan Bowen wrote:
> Regarding air traffic over the Atlantic, we may be able to act as a peer
> in the system, and not just an unexpected hazard to navigation. While
> the FAA rules do refer to manned craft, pilots are well familiar with
> the right-of-way in the air - you shall give way to the less
> maneuverable craft (including lighter-than-air craft).
>
> Aircraft travelling oceanic routes are in excellent communication with
> Air Traffic Control, as well as with aircraft in the vicinity of them.
> Oceanic flights fly on published (daily) organized North Atlantic
> Tracks. They split the traffic up like a highway, with eastbound tracks
> following the jet stream, and the westbound tracks well clear of the jet
> stream, usually to the north. ATC coordinates flight plans, and then
> the actual flight's actions, to avoid collisions and maximize efficiency
> of the airspace. Aircraft are frequently out of range for ATC's radar,
> and are required to radio their position in very frequently for large
> portions of the trip. ATC therefore has the easy capability of plotting
> Altitude/LAT/LON/speed/heading position reports.
>
> Perhaps we could use the airspace responsibly as if we were private
> pilots, as we are not that different in speed from small general
> aviation planes using the same airspace as the commercial jets - the
> airspace control systems are designed to accommodate both high and low
> speed traffic by virtue of the continual flow of information between all
> parties involved. Looking at EOSS's fine published work with their
> local regional ATC Center, and their live updating FAA info page, this
> works admirably well already.
>
> With tools like HYSPLIT available to most of us, we can create a fairly
> good flight plan, even format it like an oceanic flight would, as a
> series of regular position waypoints, for easy ATC digestion. Just like
> the commercial traffic, we can check in with ATC every so often with the
> latest position report (many groups do this already via phone to local
> towers) and ATC will far in advance adjust an airliner course ever so
> slightly so they pass around us, just like a slower fellow airplane.
>
> Whether ATC will go along probably depends upon our professionalism and
> reliability in reporting to them.
>

> What do you guys think?
>
> Thanks,
> Dan
> K2VOL
> UTARC
>
>
>
> On Oct 16, 2007, at 12:26 AM, Mike Manes wrote:
>
>> Hi Robert,
>>
>> I may be way wrong, but I really doubt that one could stay exempt with
>> a payload that can survive a multi-day trans-Atlantic crossing and still
>> meet the 2-hr max beaconing interval. There's battery weight, heater,
>> etc to consider, plus ballast if it's a ZP or valved latex.
>>
>> The airspace over the N Atlantic is heavily inhabited by civil aviation
>> traveling between CONUS and EU, especially between 35 and 40K'. Iceland
>> and Greenland have plenty of overflights.
>>
>> Yeah, it's a big sky every where. But we've had PIREPS called on visuals
>> to our balloons - even tho they were 40 miles from the aircraft. It
>> doesn't take a midair to screw things up - a hard avoidance maneuver
>> during cabin service, whether necessary or not, could mollux it for
>> all of us. And woe be unto he who does!
>>
>> Another international consideration is permission to transmit on the
>> ham bands within the various national boundaries. The CEPT license is
>> valid only when accompanied by the operator's passport. Not mine, babe!
>> Space Data takes special care to go QRT before crossing the US border;
>> but they operate under a commercial US license.
>>
>> And if you run a ham transmitter from a balloon inside UK airspace,
>> you'll be in violation of their laws. Poor form, old chap. Poor form.
>>
>> As an example of the kind of hoops one must hurldle, consider that
>> Bill WB8ELK had to sail out into the Gulf in order to launch his
>> rockoon.
>>
>> All I'm saying is that if we're gonna do this and honor folks with
>> public accolades, let's be sure it's done safely and legally.
>>
>> 73 de Mike W5VSI
>>
>> Robert Rochte wrote:
>> > Mike,
>> >
>> > I very much respect your opinion on this, but I do not believe that

>> > the HUGE derelict to which you're referring (it was over a million
>> > cubic feet, IIRC) is in any way comparable to a FAR 101 exempt flight.
>> > Not even close - and no air traffic is going to be rerouted around a
>> > 125 cubic foot balloon with a 10 oz payload, nor need it be!
>> >
>> > I'm not proposing suicide - I'm only suggesting that the rules be
>> > reasonable, not cautious to the point of stupid. We're talking about
>> > flying a balloon across one of the most uninhabitated parts of the
>> > planet - an OCEAN. Is there air traffic? Yes. But it's a big sky up
>> > there and we're talking about very, very tiny targets - and these
>> > targets (our balloons) will do less damage than a fat pigeon if a
>> > collision occurs.
>> >
>> > Again, I respect your opinion - I *strongly* disagree with you in this
>> > case, but I do understand your concern.
>> >
>> > As for international regulations - how, for example, would we deal
>> > with an ocean-crossing balloon that penetrates British airspace? You
>> > use this as your own example of varying regulations - would such a
>> > flight be disqualified?
>> >
>> > All this aside, I can tell you that a trans-Atlantic flight is coming
>> > and coming very soon... I'd love to see it (whether it's mine or not)
>> > on Ralph's page, but if "the rules" get in the way then I really don't
>> > care.... Anything after that will be, in the words of Don Piccard, a
>> > record achieved by "parting your hair on the other side".
>> >
>> > 73,
>> > Robert
>> >
>> >
>> >
>> >> In reading thru some of Space Data's US patents, I learned about the
>> >> Grand-daddy of derelicts - a ZP out of Canada that went deaf & dumb
>> >> heading out over the Atlantic. ALL air traffic across the northern
>> >> Atlantic corridor was rerouted for 10 days until the derelict was
>> >> located. Which may explain in part why Canada's rules are so
>> restrictive.
>> >>
>> >> Another such incident would spell doom for ARHAB everywhere. Let's not
>> >> commit suicide, OK?
>> >
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
>> 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>

>
>
> Dan Bowen
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3761. Re: [GPSL] Transatlantic Rules and the start of the race.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-17 03:15:58 UTC
From: Mike Manes
Topic: 3757 Message: 3761

Thanks for those germane sentiments from the Great Waldo Pepper
of ARHAB.

73 de Mike W5VSI

K. Mark Caviezel wrote:
> Ralph:
> Thanks for putting those draft rules together and
> sharing them with the community.
>
> As many of you know, I have been building plastic
> balloons for some time with some excellent successes:
> a). two flight with over 150 lbs payload,
> b). numerous flights to over 100k feet,
> c). one flight in excess of 1000 miles flight
> distance.
>
> The rules you propose make an already difficult
> endeavor significantly more difficult. For any
> successful group to have its achievement undermined or
> discredited because they were not in compliance with
> all of these rules would be a shame.
>
> I propose significant simplification: a winning flight
> be defined as one that makes a launch from the north
> American continent, overflies the Atlantic and makes a
> landing on land on the other side.
>
> Additional embedded comments follow:
>
> 1] Plastic Balloons, whether zero-pressure or
> super-pressure, must be designed and fabricated by
> members of the group. A given member may not
> participate in multiple groups but free informal
> consulting is allowed. (Use of stock manufactured
> latex or equivalent sounding balloons, e.g.,
> boost and main, would be allowed.)
>>>>>>>> What is the rationale and motivation and
> presumed value of this rule? We wouldn't consider
> requiring the radio equipment, string, wire or
> batteries to be homebuilt- would we?
>
>
> 2] Successful received and reported periodic position
> reporting must not exceed 2-hour intervals

> and -has to be- via Ham Radio licensing, frequencies,
> modes, etc.
>>>>>>>>>>> I'd like to list this as a
> recommendation, not as a requirement. The excellent
> flight and ANSR 33 last year demonstrated a great
> flight, but with the night time position reports
> blacked out due to changing propagation. A
> lightweight VHF/single band HF unit will be smaller,
> lighter, cheaper, and more likely to work properly
> than a fancy multi-band, band-hopping super gizmo (I
> think).
>
>
> 3] The floating phase of flights must be above
> 60,000ftASL (above controlled airspace). Floating
> phase starts when ascent stops the first time after
> launch.
>>>>>>>>>> If this is adopted as a requirement, it
> will drive balloon size up, transit time up, speed
> down, required battery weight up, payload weights will
> be greater, costs will be higher, and the possibility
> of doing a sub-12 pound FAA part 101 exempt style
> mission is reduced. Since a sub-12 pound FAA part 101
> exempt style mission is 'in family' with the estimated
> FOUR MILLION US National Weather Service balloons that
> have been flown without serious incident in the last
> 40 years, I respectfully submit that the exposure and
> risk of some small ARHAB balloons in far less
> congested airspace is so very low as as to be
> acceptable by any reasonable estimation of the risks.
>
>
>
> 5] Flights will be declared valid attempts after
> floating a minimum of 1,000mi -and- transiting
> over international Atlantic ocean waters.
>>>>>>>> What is the rationale and motivation and
> presumed value of this rule?
>
> I'll be supporting the UTARC team and Bill WB8ELK in
> their own transatlantic flight attempts this season.
> Both parties have mentioned intention to fly an armada
> of small balloons until success is achieved. In their
> prior flights, they both have demonstrated 'the right
> stuff' in spades and I'll wish them the best in their
> attempts.
>
> If anyone has a starter's pistol- you can fire it now.
> I am mailing a transatlantic suitable 920 cubic foot
> balloon to UTARC today.

>
> best regards,
>
> - Mark Caviezel
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> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3762. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-17 03:59:10 UTC
From: Mike Manes
Topic: 3744 Message: 3762

Thanks, Luis

So it was a 1998 ZP intended to fly just 1 day which suffered a failure of the cutdown / termination system. Although not mentioned on the web page, it's likely that the beacon batteries died not long into its 9 day flight. So I guess the Canadian and US interceptors who tried to shoot it down found it using dead-reckoning from upper wind reports.

Not sure who got nicked for the price of the flight hours, but I, for one, would not care to speculate on what the threshold size might be to prompt a military response to a derelict. And it's for sure that I'd be hard-pressed to pay for more than one flight hour of an F16!, not to mention the extra fuel used diverting civil aircraft.

Just one system failure -- who'd have guessed? Seems they didn't have a redundant timer-based cutdown per FAR 101.35(a)(1)&(2), or if they did, then they weren't totally redundant. Shades of EOSS-6 :={.

73 de Mike W5VSI, EOSS

Luis Eduardo Pacheco wrote:
> In reading thru some of Space Data's US patents, I learned about the
>
> Grand-daddy of derelicts - a ZP out of Canada that went deaf & dumb
> heading out over the Atlantic. ALL air traffic across the northern
> Atlantic corridor was rerouted for 10 days until the derelict was
> located. Which may explain in part why Canada's rules are so
> restrictive.
>
>
> It was the first MANTRA balloon launched from Vanscoy (Saskatchewan) and
> landed a week later in Marienham (Finland).
>
> Excuse the self-reference
> http://stratocat.com.ar/fichas-e/1998/VNS-19980824.htm
>
> Best regards
> --
> Luis Eduardo Pacheco
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3763. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-17 03:34:00 UTC
From: Robert Rochte
Topic: 3744 Message: 3763

Note that Luis's web page also gives the size of the balloon - 328,500
cubic meters, or over 11,500,000 cubic feet!

(That's TEN THOUSAND TIMES larger than the *largest* superpressure
envelope that I'm considering for a trans-oceanic flight!)

73,
Robert KC8UCH

> Thanks, Luis
>
> So it was a 1998 ZP intended to fly just 1 day which suffered a failure of
> the cutdown / termination system. Although not mentioned on the web
> page, it's likely that the beacon batteries died not long into its 9
> day flight. So I guess the Canadian and US interceptors who tried to
> shoot it down found it using dead-reckoning from upper wind reports.
>
> Not sure who got nicked for the price of the flight hours, but I, for one,
> would not care to speculate on what the threshold size might be to
> prompt a military response to a derelict. And it's for sure that I'd
> be hard-pressed to pay for more than one flight hour of an F16!, not to
> mention the extra fuel used diverting civil aircraft.

3764. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-17 21:51:55 UTC
From: Mike Manes
Topic: 3744 Message: 3764

Precisely where do you draw the line, Robert?
73 de Mike W5VSI

Robert Rochte wrote:
> Note that Luis's web page also gives the size of the balloon - 328,500
> cubic meters, or over 11,500,000 cubic feet!
>
> (That's TEN THOUSAND TIMES larger than the *largest* superpressure
> envelope that I'm considering for a trans-oceanic flight!)
>
> 73,
> Robert KC8UCH
>
>> Thanks, Luis
>>
>> So it was a 1998 ZP intended to fly just 1 day which suffered a failure of
>> the cutdown / termination system. Although not mentioned on the web
>> page, it's likely that the beacon batteries died not long into its 9
>> day flight. So I guess the Canadian and US interceptors who tried to
>> shoot it down found it using dead-reckoning from upper wind reports.
>>
>> Not sure who got nicked for the price of the flight hours, but I, for one,
>> would not care to speculate on what the threshold size might be to
>> prompt a military response to a derelict. And it's for sure that I'd
>> be hard-pressed to pay for more than one flight hour of an F16!, not to
>> mention the extra fuel used diverting civil aircraft.
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3765. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-18 04:03:26 UTC
From: Robert Rochte
Topic: 3744 Message: 3765

On 10/17/07, Mike Manes <mrmanes@...> wrote:
> Precisely where do you draw the line, Robert?
> 73 de Mike W5VSI

I draw the line at the point of exemption under FAR 101. No ambiguity there and no one is making up the rules (including me) - simply let FAR 101 be our guide.

As I've said over and over, I very much respect the added caution that EOSS exercises - it is a wonderful and noble thing. I also agree with your general approach of discouraging tropospheric flights amongst amateur groups. For example, if the goal of any given ARHAB group doesn't explicitly require a tropospheric flight, then I think that we should, as a community, encourage them to clear controlled air space as quickly as possible.

In most cases, ARHAB groups are using latex balloons that result in quick up-and-down flights anyway, so the issue is generally moot. Some of us, however, are working on designs that are purpose-built to fly in the troposphere - and we do so legally under FAR 101.

While I agree with the EOSS approach in general, I do not believe that the added caution (in the form of discouraging tropo flights) makes sense in ALL situations, most especially not in the case of a trans-oceanic flight. To claim safety as the issue is, in my humble opinion, either the result of statistical ignorance or intellectual dishonesty (I prefer to think the former). The exemptions of FAR 101 were not dreamt up by someone in their basement late at night, they were based on millions of combined man-years of experience involving aircraft of all kinds - enormous amounts of real-world data and hypothetical scenarios all distilled down into a set of rules that *work*, day in and day out.

Some may think the position that I and others take on this matter is arrogant, as if we know better than all of our ARHAB colleagues who have been doing this decades. I think the case is quite the contrary - to presume that the FARs are somehow inadequate and that we, as amateur radio operators who have sent up perhaps a thousand balloons across all of our combined missions, must instead invent our own draconian rules to safeguard all of aviation is the most arrogant position of all!

If that sounds particularly unpleasant in its tone, I apologize... It is not intended to be so. I do, however, vehemently disagree with the proposed "rules" and what I believe to be the flawed reasoning behind them.

Perhaps we will need to agree to disagree on this matter. If the rules stand as drafted, it will make no difference to me, nor do I believe it will alter the plans of Mark, Bill, the UTARC group or anyone else who is seriously considering the challenge of a trans-oceanic flight.

I would like to see the first ARHAB flight to cross the ocean acknowledged on Ralph's page. But if that's not to be, if instead the "first" as recorded there will be a flight constrained by arbitrary and statistically invalid "safety rules", then so be it. The international media attention that the first crossing will receive will surely dwarf our little ARHAB world anyway, and the state of the art in amateur ballooning will march on, with or without the recognition of the ARHAB community itself.

73,
Robert KC8UCH

>
> Robert Rochte wrote:
> > Note that Luis's web page also gives the size of the balloon - 328,500
> > cubic meters, or over 11,500,000 cubic feet!
> >
> > (That's TEN THOUSAND TIMES larger than the *largest* superpressure
> > envelope that I'm considering for a trans-oceanic flight!)
> >

3766. An example to illustrate the >60k AGL rule problem...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-18 15:12:33 UTC
From: Robert Rochte
Topic: 3766 Message: 3766

With regard to the proposed 60,000 minimum altitude for a trans-oceanic flight, I offer this example...

What if I were to obtain a waiver from the FAA to fly a 20lb payload at FL 200? Would such a flight be disqualified because it did not remain above FL 600?

I think that most would answer, "no, it would qualify because you had a waiver - that makes it alright". If so, then why would a flight that is specifically exempted by FAR 101 not be treated the same way - i.e., as long as it's legal, it qualifies?

How would a non-exempt flight with a waiver (and perhaps ATC coordination and all else that would be required to fly under the waiver) be different from an exempt flight (which, according to the FAA, requires none of this)?

73,
Robert

--
Robert Rochte, Director of Technology
The Grosse Pointe Academy
+1 313-886-1221 x155 Office
+1 313-378-0525 Mobile

"There are only 10 types of people in this world - those who understand binary and those who don't."

3767. Trans Atlantic flight rules proposal- ballistic coefficient

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-18 17:01:27 UTC
From: K. Mark Caviezel
Topic: 3767 Message: 3767

> Precisely where do you draw the line, Robert?
> 73 de Mike W5VSI

I draw the line at the point of exemption under FAR
101. No ambiguity
there and no one is making up the rules (including me)
- simply let
FAR 101 be our guide.

>>>> excellent points, Robert. Thanks for sharing
them with the group.
I do advocate compliance with the FAA part 101
requirements (exempt or non-exempt) for all groups.
Also, I require FAA part 101 compliance for all
flights I operate. Additionally I do encourage- when
possible and practical- reduction in the areal
ballistic coefficient of the payload packages. This
is easy and painless to do- bulk up the payloads with
styrofoam.
This also provides thermal insulation and reduction of
mechanical shock to the payload should the parachute
'squid' and provide an express trip down to the
surface.

best regards,

- Mark Caviezel

3768. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-18 22:02:39 UTC
From: Mike Manes
Topic: 3744 Message: 3768

Hi Robert,

To start, FAR 101 is simply the starting point for FAA's authority, not a limit. Note that the 101.7 "Catch 22" clause has been used to limit ARHAB operations in the past, and can be expected to be invoked towards any operator who thumbs nose at limitations imposed that are more restrictive than those stipulated by FAR 101.

And second, FAR 101's applicability ends at the boundaries of the US NAS. Since this thread involves international flight, limiting our scope to FAR 101 simply doesn't cut it. Crossing into Canadian airspace with a balloon larger than 115 cu ft and no waiver is a violation.

It appears that you and Mark Caviezel rely a lot on the "big sky" concept, along with an expectation that trouble ensues only if one gets caught. Now, I can't dispute the reasonableness of either of those approaches from an entirely statistical point of view. However, I cast that kind of thinking in the same class as justifying regularly busting the speed limit on the highway. By and by, there'll be a bust, and fingers crossed, it won't include charges for vehicular homicide.

Each launch does invoke a small, but finite, risk of damage or injury to others. In the event that Murphy succeeds in one of those rare events, then one is faced with defending his actions to mitigate the magnitude of a jury award. EOSS has yet to find an underwriter for that risk, other than Lloyd's of London with absurd premiums. So we've decided that our best defense is to demonstrate a clear lack of negligence through abiding all possible precautions, including notifying the FAA of where we are so that they can manage flight separation. So far, I know of no one in ARHAB who act to avoid a mid-air, even if they could see it coming.

The quid pro quo is that we agree to fly within the FAA's special provisions, including cutting down in the event things get out of hand. Yes, some of those special provisions are a pain in the rear, but EOSS considers it a reasonable cost of using the NAS for our purposes. A nice side effect of nurturing a healthy working relationship with the FAA is that they have granted us some leeway that would otherwise be flat denied. Another is that we can apply for an annual blanket COA with a few minutes of editing a boiler-plate 7711-2.

None of those benefits will accrue to a flight which launched with no notice whatever to the FAA. In these cases, the operator is relying on the Big Sky and a beneficent Murphy.

Anyway, that's where EOSS draws its line, and we do encourage other groups to adopt similar procedures. But not out of some morbid urge to share the

pain, but rather as an effort to avoid having even more draconian rules being imposed by law on all ARHAB operations in the wake of an avoidable God Forbid accident. Witness the new UAV rules, e.g.

And rest assured that EOSS didn't "invent" the Special Provisions that we've chosen to conform to. They come entirely from the FAA. And yeah, it would be nice to launch at will, but not at the risk, however small, of an accident that sends us into bankruptcy or jail, results in serious injury or death or spells doom for the entire ARHAB community.

Do as you wish, sir. But please don't mollux it for the rest of us. If you do, then don't expect our accolades, either.

73 de Mike W5VSI
Prez EOSS

Robert Rochte wrote:
> On 10/17/07, Mike Manes <mrmanes@...> wrote:
>> Precisely where do you draw the line, Robert?
>> 73 de Mike W5VSI
>
> I draw the line at the point of exemption under FAR 101. No ambiguity
> there and no one is making up the rules (including me) - simply let
> FAR 101 be our guide.
>
> As I've said over and over, I very much respect the added caution that
> EOSS exercises - it is a wonderful and noble thing. I also agree with
> your general approach of discouraging tropospheric flights amongst
> amateur groups. For example, if the goal of any given ARHAB group
> doesn't explicitly require a tropospheric flight, then I think that we
> should, as a community, encourage them to clear controlled air space
> as quickly as possible.
>
> In most cases, ARHAB groups are using latex balloons that result in
> quick up-and-down flights anyway, so the issue is generally moot.
> Some of us, however, are working on designs that are purpose-built to
> fly in the troposphere - and we do so legally under FAR 101.
>
> While I agree with the EOSS approach in general, I do not believe that
> the added caution (in the form of discouraging tropo flights) makes
> sense in ALL situations, most especially not in the case of a
> trans-oceanic flight. To claim safety as the issue is, in my humble
> opinion, either the result of statistical ignorance or intellectual
> dishonesty (I prefer to think the former). The exemptions of FAR 101
> were not dreamt up by someone in their basement late at night, they
> were based on millions of combined man-years of experience involving
> aircraft of all kinds - enormous amounts of real-world data and
> hypothetical scenarios all distilled down into a set of rules that
> *work*, day in and day out.
>
> Some may think the position that I and others take on this matter is

> arrogant, as if we know better than all of our ARHAB colleagues who
> have been doing this decades. I think the case is quite the contrary
> - to presume that the FARs are somehow inadequate and that we, as
> amateur radio operators who have sent up perhaps a thousand balloons
> across all of our combined missions, must instead invent our own
> draconian rules to safeguard all of aviation is the most arrogant
> position of all!
>
> If that sounds particularly unpleasant in its tone, I apologize... It
> is not intended to be so. I do, however, vehemently disagree with the
> proposed "rules" and what I believe to be the flawed reasoning behind
> them.
>
> Perhaps we will need to agree to disagree on this matter. If the
> rules stand as drafted, it will make no difference to me, nor do I
> believe it will alter the plans of Mark, Bill, the UTARC group or
> anyone else who is seriously considering the challenge of a
> trans-oceanic flight.
>
> I would like to see the first ARHAB flight to cross the ocean
> acknowledged on Ralph's page. But if that's not to be, if instead the
> "first" as recorded there will be a flight constrained by arbitrary
> and statistically invalid "safety rules", then so be it. The
> international media attention that the first crossing will receive
> will surely dwarf our little ARHAB world anyway, and the state of the
> art in amateur ballooning will march on, with or without the
> recognition of the ARHAB community itself.
>
> 73,
> Robert KC8UCH
>
>
>> Robert Rochte wrote:
>>> Note that Luis's web page also gives the size of the balloon - 328,500
>>> cubic meters, or over 11,500,000 cubic feet!
>>>
>>> (That's TEN THOUSAND TIMES larger than the *largest* superpressure
>>> envelope that I'm considering for a trans-oceanic flight!)
>>>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

3769. Re: [GPSL] Trans Atlantic flight rules proposal

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-18 22:08:14 UTC
From: Robert Rochte
Topic: 3744 Message: 3769

Interlinear responses below...

> To start, FAR 101 is simply the starting point for FAA's authority, not
> a limit. Note that the 101.7 "Catch 22" clause has been used to limit
> ARHAB operations in the past, and can be expected to be invoked towards
> any operator who thumbs nose at limitations imposed that are more
> restrictive than those stipulated by FAR 101.
>

Certainly FAR 101 is the starting point - but it was written broadly
for a reason. The key to your paragraph above is, "...who thumbs nose
at limitations imposed that are more restrictive than those
stipulated..." - who has suggested such a thing? Surely not me. If
FAA decides to impose more restrictive limitations, then we will
follow them. I'm quite certain that I speak for most groups when I
say this. No one is suggesting flaunting the law.

(I can only hope that you would not follow in the footsteps of G.
Harry Stine and his one-man campaign back in the '60s to squash all
amateur rocketry other than what he deemed "safe". Not sure if that's
where you're going with the "more restrictive" stipulations or not...)

> And second, FAR 101's applicability ends at the boundaries of
> the US NAS. Since this thread involves international flight, limiting
> our scope to FAR 101 simply doesn't cut it. Crossing into Canadian
> airspace with a balloon larger than 115 cu ft and no waiver is a
> violation.

At least on the Canadian part of the argument, it seems that you
didn't have the conversation that I finally had with a gentleman at
Transport Canada back in March. They have no problem with a payload
that is exempt under U.S. regs crossing into Canada.

And if you're suggesting compliance with all possible jurisdictions
which might become involved in such a flight, then you're suggesting
the impossible. If that's the case, then Ralph shouldn't post the
contest at all - it will end like the CATS Prize and its ridiculous
requirements imposed by FedGov.

>
> It appears that you and Mark Caviezel rely a lot on the "big sky" concept,
> along with an expectation that trouble ensues only if one gets caught.
> Now, I can't dispute the reasonableness of either of those approaches from
> an entirely statistical point of view. However, I cast that kind of
> thinking in the same class as justifying regularly busting the speed limit
> on the highway. By and by, there'll be a bust, and fingers crossed, it won't
> include charges for vehicular homicide.

Actually, it's not at all the same. In fact, I drive the speed limit all the time and do my best to obey all laws (and I'm involved in some highly regulated activities - exempt ballooning not being one of them). Instead, it's about understanding the reality of the situation and rejecting a purely emotional response to it. Perhaps I shouldn't drive an automobile at all - not even at the posted speed limit - because I MIGHT have a heart attack and cause a chain-reaction accident on the freeway, killing tens of people. Could it happen? Sure. Is it at all likely? No. Should I change my behaviour because of the remote possibility? Hardly. Still, I'll drive the speed limit.

> Each launch does invoke a small, but finite, risk of damage or injury to
> others. In the event that Murphy succeeds in one of those rare events,
> then one is faced with defending his actions to mitigate the magnitude of
> a jury award. EOSS has yet to find an underwriter for that risk, other
> than Lloyd's of London with absurd premiums. So we've decided that our
> best defense is to demonstrate a clear lack of negligence through abiding
> all possible precautions, including notifying the FAA of where we are so
> that they can manage flight separation. So far, I know of no one in ARHAB
> who act to avoid a mid-air, even if they could see it coming.
>

See above.

> The quid pro quo is that we agree to fly within the FAA's special provisions,
> including cutting down in the event things get out of hand. Yes, some of
> those special provisions are a pain in the rear, but EOSS considers it a
> reasonable cost of using the NAS for our purposes. A nice side effect of
> nurturing a healthy working relationship with the FAA is that they have
> granted us some leeway that would otherwise be flat denied. Another is
> that we can apply for an annual blanket COA with a few minutes of editing
> a boiler-plate 7711-2.
>

Do you fly exempt flights? Does FAA *require* you to follow the same protocol for these flights? And if, by chance, the answer is "yes" to both of these - how exactly did this come about? FAA showed up on the flying field one day and said, "you need to do x, y and z" - or did it happen some other way?

> None of those benefits will accrue to a flight which launched with no
> notice whatever to the FAA. In these cases, the operator is relying on
> the Big Sky and a beneficent Murphy.

No, one is relying on the LAW as implemented in FAR 101.

> Anyway, that's where EOSS draws its line, and we do encourage other groups
> to adopt similar procedures. But not out of some morbid urge to share the
> pain, but rather as an effort to avoid having even more draconian rules being
> imposed by law on all ARHAB operations in the wake of an avoidable God Forbid
> accident. Witness the new UAV rules, e.g.

Show me the FARs that covered UAVs *before* the new rules... UAVs as
we know them now didn't exist in the past and so appropriate rules
also didn't exist. Free balloons are the oldest man-made flying
machines in the world and the rules for them are fully matured.
Still, FAR 101 and its exemption exists - and for a reason!

>
> And rest assured that EOSS didn't "invent" the Special Provisions that we've
> chosen to conform to. They come entirely from the FAA. And yeah, it would
> be nice to launch at will, but not at the risk, however small, of an accident
> that sends us into bankruptcy or jail, results in serious injury or death or
> spells doom for the entire ARHAB community.
>

Again, how did they come from the FAA?? Did you ASK for special
rules? Or did they show up one day? Or do they really only apply to
non-exempt flights?

> Do as you wish, sir. But please don't mollux it for the rest of us. If
> you do, then don't expect our accolades, either.

You need have no such worries... Nor need anyone worry that I will
"play NASA" when I'm really only flying an exempt balloon.

73,
Robert

3770. Re: [GPSL] An example to illustrate the >60k AGL rule problem...

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-18 23:36:42 UTC
From: Mike Manes
Topic: 3766 Message: 3770

I think the FL600+ proposed requirement is actually a simplifying factor, rather than a barrier, since that's probably the upper limit of all controlled airspace both domestically and internationally.

Now, once again, a COA from the FAA won't be worth the paper its written on once you leave US airspace.

And if you were to apply for a COA to fly 20# at FL200, then you should expect to have a set of Special Provisions attached to your COA if it were awarded. There are over 10 on ours, and one is a requirement I-gate our APRS beacons into findu.com at regular intervals. Another requires us to file a HiBal with ARTCC, TRACON and FSS detailing the forecast trajectory - and if that trajectory passes near heavy corridors, ARTCC can limit our launch window. You COA would probably require a HiBal as well, and if your trajectory would carry you thru Class B airspace, plan a scub.

Going transatlantic at normal enroute altitudes, then you'd have to deal with all the other national airspaces that you'd be penetrating, and probably with ICAO in international airspace. So designing your flight to stay above 60K' will most likely save you a world of headaches getting clearances all along the route. Note also that some countries won't permit overflight under ANY circumstances. IIRC, Steve Fossett had to steer around Liberia during one of his circumnavigation attempts.

Yes, a transatlantic ARHAB flight would be quite an accomplishment, and it won't be easy. But doing it high will be logistically simpler, IMHO.

73 de Mike W5VSI

Robert Rochte wrote:
> With regard to the proposed 60,000 minimum altitude for a
> trans-oceanic flight, I offer this example...
>
> What if I were to obtain a waiver from the FAA to fly a 20lb payload
> at FL 200? Would such a flight be disqualified because it did not
> remain above FL 600?
>
> I think that most would answer, "no, it would qualify because you had
> a waiver - that makes it alright". If so, then why would a flight
> that is specifically exempted by FAR 101 not be treated the same way -
> i.e., as long as it's legal, it qualifies?
>
> How would a non-exempt flight with a waiver (and perhaps ATC
> coordination and all else that would be required to fly under the
> waiver) be different from an exempt flight (which, according to the

> FAA, requires none of this)?
>
> 73,
> Robert
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3771. TU HARP 57

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-20 15:23:19 UTC
From: Patterson, David
Topic: 3771 Message: 3771

Taylor University's High Altitude Research Platform team will be launching their 57th mission from Science Central in Fort Wayne, IN at approx. 1:30 today. Featured on this flight are payloads constructed by Taylor astronomy students and visitors to the museum, APRS tracking (call: KB9ZNZ-10), and a cross-band repeater operating on 146.46 up / 446.025 down.

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

3772. UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-21 05:29:08 UTC
From: Dan Bowen
Topic: 3772 Message: 3772

Hi All,
Just wanted to let any spectators know, we finally got a pretty good controlled float going. Check out http://balloon.utarc.org/livestatus

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3773. RE: [GPSL] UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-21 13:03:03 UTC
From: Nick Hanks
Topic: 3772 Message: 3773

Well done web page. Thanks for the pointer.

Good luck with the flight.

Nick
NOLP
EOSS

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Dan Bowen
Sent: Saturday, October 20, 2007 11:29 PM
To: Balloon_Sked@yahoogroups.com
Cc: GPSL@yahoogroups.com
Subject: [GPSL] UTARC UX-18

Hi All,

Just wanted to let any spectators know, we finally got a pretty good controlled float going. Check out http://balloon.utarc.org/livestatus

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3774. Re: [GPSL] UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-21 13:57:26 UTC
From: Joe
Topic: 3772 Message: 3774

Congratz guys on making it through the night.

Looking at the whole flight, what is with the circle track around Knoxville? seems really strange.

Joer

Dan Bowen wrote:

> Hi All,
> Just wanted to let any spectators know, we finally got a pretty good
> controlled float going. Check out http://balloon.utarc.org/livestatus
>
> Dan Bowen
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>
>
>

3775. Re: [GPSL] UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-21 14:10:19 UTC
From: Dan Bowen
Topic: 3772 Message: 3775

Ah, that was when we had the payload hooked up to a GPS simulator
(http://gpsfeed.sourceforge.net) for developing the live status
page, we had to have real data going through the APRS system to test it.
Dan

On Oct 21, 2007, at 9:57 AM, Joe wrote:

> Congratz guys on making it through the night.
>
> Looking at the whole flight, what is with the circle track
> around Knoxville? seems really strange.
>
> Joer
>
> Dan Bowen wrote:
>
>> Hi All,
>> Just wanted to let any spectators know, we finally got a pretty
>> good controlled float going. Check out http://balloon.utarc.org/
>> livestatus
>>
>> Dan Bowen
>>
>> Program Manager
>> UTARC Experimental High Altitude Balloon Program
>> University of Tennessee Amateur Radio Club
>> Knoxville, TN
>>
>>
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3776. Re: [GPSL] UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-21 14:20:41 UTC
From: Greg Williams
Topic: 3772 Message: 3776

We successfully tested out rocket guided JATO pack strapped to the side
of the box.

:-)

Actually, one of our contributors (Ben Bales) developed some software to
test our payload with GPS telemetry coords being fed into the package
since we were inside a building and, rather than take the whole package
outside, simply feed GPS coords via the computer to test the data
stream. We set up a perimeter around our actual location just keep
people in Oklahoma or Yokohama from wondering what was going on.

We had out APRS station setup set to i-gate, so we could check via FindU.

Greg

Joe wrote:
>
> Congratz guys on making it through the night.
>
> Looking at the whole flight, what is with the circle track around
> Knoxville? seems really strange.
>
> Joer
>
> Dan Bowen wrote:
>
>> Hi All,
>> Just wanted to let any spectators know, we finally got a pretty good
>> controlled float going. Check out
>> http://balloon.utarc.org/livestatus
>> <http://balloon.utarc.org/livestatus>
>>
>> Dan Bowen
>>
>> Program Manager
>> UTARC Experimental High Altitude Balloon Program
>> University of Tennessee Amateur Radio Club
>> Knoxville, TN
>>
>>
>
> --
> This message has been scanned for viruses and
> dangerous content by *MailScanner* <http://www.mailscanner.info/>, and is
> believed to be clean.

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

3777. Re: [GPSL] UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-21 19:59:14 UTC
From: Barry L. Lankford
Topic: 3772 Message: 3777

I agree, well done webpage and well done flight so far. I've really enjoyed keeping up with it. I zoomed in on Knoxville and didn't see a loop around the city. I suppose there is a time window on the displayed track and the old testing data has dropped off the screen.

What I want to know is how did you build in a "state line" guidance system??? First it picked up the Kentucky/Virginia state line, followed that until it ran out, then turned to the east to pick up the West Virginia/Virginia line and resumed the NE course of that line. Hmmm...

Barry N4MSJ

Nick Hanks wrote:
> Well done web page. Thanks for the pointer.
>
> Good luck with the flight.
>
> Nick
> NOLP
> EOSS
>
> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Dan
> Bowen
> Sent: Saturday, October 20, 2007 11:29 PM
> To: Balloon_Sked@yahoogroups.com
> Cc: GPSL@yahoogroups.com
> Subject: [GPSL] UTARC UX-18
>
>
> Hi All,
>
> Just wanted to let any spectators know, we finally got a pretty good
> controlled float going. Check out http://balloon.utarc.org/livestatus
>
>
> Dan Bowen
>
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>

3778. Re: [Balloon_Sked] UTARC UX-18

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-22 00:54:07 UTC
From: Mike Manes
Topic: 3772 Message: 3778

Hi Dan,

The last report on the web site was stamped 1949Z. Is it on the deck?

73 de Mike W5VSI

Dan Bowen wrote:
> Hi All,
> Just wanted to let any spectators know, we finally got a pretty good
> controlled float going. Check out http://balloon.utarc.org/livestatus
>
> Dan Bowen
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3779. Re: eos-4 report from ka1eks

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-22 18:38:05 UTC
From: L T
Topic: 3779 Message: 3779

yes this is great good job everything counts to put a picture together.

thank you again

LEE--w1lwt

EOS-4 Project Engineer

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3780. Great history and superb images from the SUNRISE flight

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-24 01:52:01 UTC
From: Luis Eduardo Pacheco
Topic: 3780 Message: 3780
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3781. Fwd: EOS-4 DATA update-W1LWT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-24 03:59:44 UTC
From: L T
Topic: 3781 Message: 3781

Note: forwarded message attached.

73's
Lee
W1LWT@...

YANKEE ARC President / Editor
TRI-COUNTY ARES VHF TRAFFIC NET Manager

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3782. Find Me Spot low cost GlobalStar satellite tracking unit (more info)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-26 22:27:16 UTC
From: wb8elk@aol.com
Topic: 3782 Message: 3782

I talked to the folks at Find Me Spot.....here's some preliminary details:

http://www.findmespot.com (http://www.findmespot.com)

Unit price (uses AA batteries) - $159.99
Service plan (yearly subscription cost): $99.99/yr
Unlimited continuous tracking feature (SPOTcasting): $49.99/yr additional.

If you have subscribed to the unlimited continuous tracking service, once you turn on the unit through a button press or two, it will update it's position via the GlobalStar satellite network and show a position on their website every 10 minutes.

I didn't get an answer if they will also show the altitude on the web link.

Not much more info on their website other than the girl I talked to said it can be purchased directly from them...or through Best Buy, Home Depot, Ace Hardware and a bunch of other retail outlets starting on November 1st.

Although it's unknown whether the unit will work above 60,000 feet (they state 21,000 feet max - guess we'll have to fly one to find out for sure), it still could be viable for lower altitude, long duration flights.

GlobalStar itself sells a line of satellite modems, but they are extremely pricey.

More details when I find out more,

- Bill WB8ELK

********** See what's new at http://www.aol.com

3783. Re: [GPSL] Find Me Spot low cost GlobalStar satellite tracking unit (more info)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-27 00:06:44 UTC
From: Mike Manes
Topic: 3782 Message: 3783

Hi Bill,

Sounds like a neat, but pricey, solution for the newbie one-person launch/recovery team or the recovery-challenged. I, for merely one, prefer to use ham radio, howsomever. That 21K' alt limit won't help for in-flight tracking; I wonder if it simply gives up reporting, yields bogus GGA, or breaks above 21K'.

73 de Mike W5VSI

wb8elk@... wrote:
> I talked to the folks at Find Me Spot.....here's some preliminary details:
>
> http://www.findmespot.com
>
> Unit price (uses AA batteries) - $159.99
> Service plan (yearly subscription cost): $99.99/yr
> Unlimited continuous tracking feature (SPOTcasting): $49.99/yr
> additional.
>
> If you have subscribed to the unlimited continuous tracking service,
> once you turn on the unit through a button press or two, it will update
> it's position via the GlobalStar satellite network and show a position
> on their website every 10 minutes.
>
> I didn't get an answer if they will also show the altitude on the web link.
>
> Not much more info on their website other than the girl I talked to said
> it can be purchased directly from them...or through Best Buy, Home
> Depot, Ace Hardware and a bunch of other retail outlets starting on
> November 1st.
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> Although it's unknown whether the unit will work above 60,000 feet (they
> state 21,000 feet max - guess we'll have to fly one to find out for
> sure), it still could be viable for lower altitude, long duration flights.
>
> GlobalStar itself sells a line of satellite modems, but they are
> extremely pricey.
>
> More details when I find out more,
>
> - Bill WB8ELK
>
>

>
>
>
>
> ---
> See what's new at AOL.com <http://www.aol.com?NCID=AOLCMP00300000001170>
> and Make AOL Your Homepage
> <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3784. Re: [GPSL] Find Me Spot low cost GlobalStar satellite tracking unit (more info)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-27 00:30:54 UTC
From: Michael Gray
Topic: 3782 Message: 3784

That is dirt cheap. What is the cost of a radio, GPS, and APRS in the balloon and then another radio/APRS on the ground? Plus all the labor hours to build a custom payload, test it, configure, etc. And then half time the radio doesn't transmit, or it always reports the launch location without updating, or the TinyTrack goes out to lunch. With Bill's device you put in a set of AA batteries and turn it on. You'll get position reports on your cell phone in real-time.

It will track over 60K' at less than 1000 knots. The usual COCOM limits.

On Fri, 26 Oct 2007, Mike Manes wrote:

> Hi Bill,
>
> Sounds like a neat, but pricey, solution for the newbie one-person
> launch/recovery team or the recovery-challenged. I, for merely one,
> prefer to use ham radio, howsomever. That 21K' alt limit won't help
> for in-flight tracking; I wonder if it simply gives up reporting, yields
> bogus GGA, or breaks above 21K'.
>
> 73 de Mike W5VSI
>
> wb8elk@... wrote:
> > I talked to the folks at Find Me Spot.....here's some preliminary details:
> >
> > http://www.findmespot.com
> >
> > Unit price (uses AA batteries) - $159.99
> > Service plan (yearly subscription cost): $99.99/yr
> > Unlimited continuous tracking feature (SPOTcasting): $49.99/yr
> > additional.
> >
> > If you have subscribed to the unlimited continuous tracking service,
> > once you turn on the unit through a button press or two, it will update
> > it's position via the GlobalStar satellite network and show a position
> > on their website every 10 minutes.
> >
> > I didn't get an answer if they will also show the altitude on the web link.
> >
> > Not much more info on their website other than the girl I talked to said
> > it can be purchased directly from them...or through Best Buy, Home
> > Depot, Ace Hardware and a bunch of other retail outlets starting on
> > November 1st.
> >

> > Although it's unknown whether the unit will work above 60,000 feet (they
> > state 21,000 feet max - guess we'll have to fly one to find out for
> > sure), it still could be viable for lower altitude, long duration flights.
> >
> > GlobalStar itself sells a line of satellite modems, but they are
> > extremely pricey.
> >
> > More details when I find out more,
> >
> > - Bill WB8ELK
> >
> >
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> >
> > ---
> > See what's new at AOL.com <http://www.aol.com?NCID=AOLCMP00300000001170>
> > and Make AOL Your Homepage
> > <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.
> >
>
>

3785. Re: [GPSL] Find Me Spot low cost GlobalStar satellite tracking unit (more info)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-27 02:05:46 UTC
From: Mike Manes
Topic: 3782 Message: 3785

Hi Mike,

Depends on how long you intend to use it.

The core AE0SS-11 module has been in regular service for 10 years and
over 90 flights. The "cheap" SPOT service would be $999 alone.

Radio: DJ-C5: $45 at hamfest
GPS: Rockwell Jupiter $25 EPAy
GPS Ant: Micropulse quad helix: $9
TNC: KPC-3+ $90

Total: $170 + $3/flight for LiSO2 batts

I'll consider the ground station end a wash, since I already own the
radio, TNC and 'puter for other stuff.

'SS works every time, and reports every 30 sec up to 130K', plus telemeters
Vbatt, internal and outside air temp and baro pressure every 1 -2 minutes.
And its reports appear at FAA control floors as VOR radial/range.

THAT's dirt cheap.

73 de Mike W5VSI

Michael Gray wrote:
> That is dirt cheap. What is the cost of a radio, GPS, and APRS in the
> balloon and then another radio/APRS on the ground? Plus all the labor
> hours to build a custom payload, test it, configure, etc. And then half
> time the radio doesn't transmit, or it always reports the launch location
> without updating, or the TinyTrack goes out to lunch. With Bill's device
> you put in a set of AA batteries and turn it on. You'll get position
> reports on your cell phone in real-time.
>
> It will track over 60K' at less than 1000 knots. The usual COCOM limits.
>
>
> On Fri, 26 Oct 2007, Mike Manes wrote:
>
>> Hi Bill,
>>
>> Sounds like a neat, but pricey, solution for the newbie one-person
>> launch/recovery team or the recovery-challenged. I, for merely one,
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>> for in-flight tracking; I wonder if it simply gives up reporting, yields
>> bogus GGA, or breaks above 21K'.

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>>> it can be purchased directly from them...or through Best Buy, Home
>>> Depot, Ace Hardware and a bunch of other retail outlets starting on
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>>> Although it's unknown whether the unit will work above 60,000 feet (they
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>>> - Bill WB8ELK
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>>> and Make AOL Your Homepage
>>> <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3786. Re: [GPSL] Find Me Spot low cost GlobalStar satellite tracking unit (more info)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-27 02:54:59 UTC
From: wb8elk@aol.com
Topic: 3782 Message: 3786

I plan to purchase one and see if we can answer the question of whether it works after traversing 60k feet....Even if it hangs up after going above 60k, as long as it pops back to life on the descent, I can see this as great insurance for a backup landing location tracker....particularly in those more remote areas of the US where the payload is not within earshot of digipeaters....although the real challenge is what it'll do in the Bermuda Triangle.

I would agree that you can't beat surplus APRS tracking costs. However, while seemingly expensive in the long run vs. APRS when you factor in the yearly subscription rates.....the unit cost is actually cheaper that buying a new radio, APRS board and GPS. I see that they also list a monthly rate program, so perhaps they will allow subscriptions a month at a time.....of course, you might want to factor in that after using it in a balloon flight, you can still use it to track wayward teenagers, husbands or wives or use it as it was intended for mountaineering.

But when you compare it against other GlobalStar and other satellite radio modems and usage fees...it's dirt cheap....just check out GlobalStar's offering lineup of satellite modems and associated subscription/data fees and you'll see.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3787. Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-28 03:48:40 UTC
From: Mike Manes
Topic: 3787 Message: 3787

Hi Joe,

Nice video! Could you tell us more about your "anti-spin" technology?
Seems to work pretty well.

We gave up on trying to fly a GPS in the same payload as 70cm AM ATV -
the pulsatile 3rd harmonic just wipes out the GPS signal before it gets
to the antenna. In our latest version, we have a GPS with Zigbee master
in one module and a Zigbee rcvr and on-screen overlay in the ATV; works
well.

How big was your 'chute and payload? A big 'chute with a light payload
is less likely to oscillate, since the dynamic pressure under the canopy
is relatively low and thus produces less reaction force when the bubble
leaks out under the skirt asymmetrically. Of course, you know the downside,
especially for a winter flight!

73 de Mike W5VSI, EOSS

Joe wrote:
> Hello All,
> Well the first rough draft is up of our flight for the Richland Center
> Wisconsin Schools.
>
> It was our first foray into a video flight in over ten years and we
> learned a lot.
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> ONE being, the GPS we have been using on several other flights does
> NOT like ATV signals. And doesn't update after the ATV tranny is fired
> up. so it sends the launch site location throughout the flight.
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> TWO,, being, a BIG chute is cool,, but NOT for a autumn flight! the
> ride down took longer, and went further downrange than the ride up
>
> ride up went from launch site to pop location 84 miles down range,,
> from the pop location to the landing spot an estimated 128 miles!
>
> This flight was for a multi school science day celebrating the 50th
> anniversary of Sputnik. it was a blast,, well over 1000 students
> enjoyed the flight!
>
> a summary video can be seen on youtube at,, heck it out, and let me
> know what you all think?
>
> http://www.youtube.com/watch?v=inGbQ5qsY34
>

> This flight we also tested our continuation of Anti-Spin technology, and
> seemed to have licked that problem,, check it uoput and let us know
> what you think..
>
> Joe & NSS
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
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> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
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> Ballooning-unsubscribe@yahoogroups.com
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> You may also visit the eGroups web site to modify your
> subscriptions:
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>
> To email the list Owner, just send a message to the
> following address:
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> Ballooning-owner@yahoogroups.com
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> Regards,
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> Moderator, Ballooning
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3788. Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-28 14:37:29 UTC
From: Joe
Topic: 3787 Message: 3788
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Mike,

Mike Manes wrote:
Hi Joe,

Nice video!
Thanks for the compliment. It was my first try at video editing, and more or less posting on YouTube,,

Could you tell us more about your "anti-spin" technology?
Seems to work pretty well.

Actually it's pretty simple, and adds very little weight. As the video says we tried it oh ten years or so ago, and it did seem to help a lot. so we just took the same idea and took it as far as we could within reassign. here is a picture of the flight from ten years ago,

For the servers lists that don't allow pictures heres a link to the same image on a web site
http://www.qsl.net/wb9sbd/launch-50-50.jpg
It's simple remember when you were a kid, and took your ruler in school and put the center hole on a pencil and kinda made a propeller and spun it around,?

Ok think more on the idea of how hard it was to make it start or stop spinning,, Now instead of the 12" ruler,, use a yard or meter stick. how much harder is it to start or stop? A LOT!!

As seen in the above (or web site) image, this was tested with those arms that were the size of a 10 meter dipole. (we happen to also have the 10 meter beacon ran along it too.)

Anyway, it did seem to help a LOT,, more than ANYTHING we have seen from all our other flights or from anyone else also.

That was the last video flight we had till the one the other day for the school. On this one we stretched that idea by more than 3 DB.

from tip to tip it was longer than a 20 meter dipole, close to 38 FEET. Worked awesome!

We gave up on trying to fly a GPS in the same payload as 70cm AM ATV -
the pulsatile 3rd harmonic just wipes out the GPS signal before it gets
to the antenna.

That we learned also. in our older flights we never had that problem,, but it was stone age GPS systems too,, a old magellan OEM board that was like 6 by 10 inches HUGE! but it worked, the newer ones just may be more prone to the desence?

In our latest version, we have a GPS with Zigbee master
in one module and a Zigbee rcvr and on-screen overlay in the ATV; works

well.

We were thinking of something similar, or even just a totally separate system just for APRS and other beacons and keep it far away..

How big was your 'chute and payload?

Payload 5.5 Lbs
Chute a true 10 hemispherical shape, not just a circular sheet, but a true 10 feet working diameter.

A big 'chute with a light payload
is less likely to oscillate, since the dynamic pressure under the canopy
is relatively low and thus produces less reaction force when the bubble
leaks out under the skirt asymmetrically.
Had a 12" spill hole in the top center too so that should have helped some with the bubble..

Of course, you know the downside,
especially for a winter flight!

I was actually very surprised at that, not so much as the winds are getting fast,, but the fact even in the thin air it seemed to just hang there,, I really wish the GPS had worked to see what the true rate of fall was,, i was thinking ,, yeah it's gonna be really slow at touchdown but the initial part i was thinking the lack of much dencity it wasn't going to make much difference.

WOW Boy was I wrong there!!

That would be a awesome to you software guru's

Bill made the awesome balltrak,, now we need someone to make a version, that we can input payload weights, and chute diameters, and pop altitudes so it can also crunch the numbers on decent too as well as going up..

yes i know a LOT more complicated,, since the altitude rate of change will be changing depending on altitude, but what a cool program that would be,, hey may as well add a float mode time too he he he..

take care all

Joe & NSS

73 de Mike W5VSI, EOSS

Joe wrote:

Hello All,
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It was our first foray into a video flight in over ten years and we learned a lot.
ONE being, the GPS we have been using on several other flights does NOT like ATV signals.
And doesn't update after the ATV tranny is fired up. so it sends the launch site location throughout the flight.

TWO,, being, a BIG chute is cool,, but NOT for a autumn flight! the ride down took longer, and went further downrange than the ride up
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This flight was for a multi school science day celebrating the 50th anniversary of Sputnik. it was a blast,, well over 1000 students enjoyed the flight!

a summary video can be seen on youtube at,, heck it out, and let me know what you all think?

http://www.youtube.com/watch?v=inGbQ5qsY34

This flight we also tested our continuation of Anti-Spin technology, and seemed to have licked that problem,, check it uoput and let us know what you think..

Joe & NSS

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http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

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<*> Your email settings:
Individual Email | Traditional

<*> To change settings online go to:
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(Yahoo! ID required)

<*> To change settings via email:
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http://docs.yahoo.com/info/terms/

3789. Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-28 18:23:32 UTC
From: Mike Manes
Topic: 3787 Message: 3789

Howdy Joe,

OK - so it's just a KISS "inertial enhancement" scheme. A lot simpler than our mag compass aimed table - only advantage of the compass it that it's possible to command a desired azimuth - but that's useful only if you have a view out towards the horizon. We have all the hooks necessary to uplink an az and el aiming command - just a'waitin' fer that elusive Round Tuit to cobble a command receiver and decoder into the module.

FB on the 12" vent on the 10' 'chute. Bigger the better. The vent does increase descent rate - but not enough to bring down a 5.5 lb payload fast! We use a 5' chute for all exempt flights.

When we decided to put ATV, APRS and other funtions in separate packages, we gained a LOT of flexibility in configuring payload strings for various missions. No need to work the EMC issues from square one on each flight. Just put 10 or 15 ft of line between the modules, and EMC is history. The only time that didn't work was when we tried a 433 MHz wireless digital link on the same flight string as our 426.25 MHz ATV - duh! We now use 900 MHz for that link.

I'm also considering using 1.2 GHz WBFM for ATV. The constant carrier envelope shouldn't be as invasive as NTSC AM, but there could still be some GPS receiver desense. Yet another Round Tuit job ...

73 de Mike W5VSI

Joe wrote:
> *Hi Mike,*
>
> Mike Manes wrote:
>> Hi Joe,
>>
>> Nice video!
> *Thanks for the compliment. It was my first try at video editing, and
> more or less posting on YouTube,,*
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>> Seems to work pretty well.
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> from tip to tip it was longer than a 20 meter dipole, close to 38
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>> How big was your 'chute and payload?
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>> A big 'chute with a light payload
>> is less likely to oscillate, since the dynamic pressure under the canopy
>> is relatively low and thus produces less reaction force when the bubble
>> leaks out under the skirt asymmetrically.
> *Had a 12" spill hole in the top center too so that should have
> helped some with the bubble..*
>> Of course, you know the downside,
>> especially for a winter flight!
> *I was actually very surprised at that, not so much as the winds are
> getting fast,, but the fact even in the thin air it seemed to just hang

> there,, I really wish the GPS had worked to see what the true rate of
> fall was,, i was thinking ,, yeah it's gonna be really slow at
> touchdown but the initial part i was thinking the lack of much dencity
> it wasn't going to make much difference.
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> WOW Boy was I wrong there!!
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> will be changing depending on altitude, but what a cool program that
> would be,, hey may as well add a float mode time too he he he..
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> take care all
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> Joe & NSS
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>>> http://www.youtube.com/watch?v=inGbQ5qsY34

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>>> Ballooning-unsubscribe@yahoogroups.com
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>>> You may also visit the eGroups web site to modify your subscriptions:
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>>> following address:
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>>> Regards,
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>>> Moderator, Ballooning
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>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3790. Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-29 01:31:25 UTC
From: Hank
Topic: 3787 Message: 3790

Joe,

That's about the steadiest video I've ever seen from an amateur balloon. The boom method really gangbusters worked for you.

>from tip to tip it was longer than a 20 meter dipole, close to 38
>FEET. Worked awesome!

What the heck was that stick made of if you're counting its weight as part of the 5.5 pounds you mentioned?

> I really wish the GPS had worked to see what the true rate of fall

How was this recovered without GPS?

>Bill made the awesome balltrak,, now we need someone to make a
>version, that we can input payload weights, and chute diameters,
>and pop altitudes so it can also crunch the numbers on descent
>too as well as going up..

Joe, I'm not sure I know what you're looking for in software. Are you looking for software that tells the descent speed for different times into the flight?

Because Rick's Balloon Track for Windows does that internally (computes the descent speed based on parachute size and payload weight for inputs) in order to predict a landing spot. It sounds like you may not employ BT for W because it would have alerted you to how far your mega 10 foot chute would have taken the small 5 pound payload.

Hank

3791. Re: [GPSL] Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-29 02:01:38 UTC
From: Joe
Topic: 3787 Message: 3791

Hi Hank,

Hank wrote:

>Joe,
>
>That's about the steadiest video I've ever seen from an amateur
>balloon. The boom method really gangbusters worked for you.
>
>>from tip to tip it was longer than a 20 meter dipole, close to 38
>
>
>>FEET. Worked awesome!
>>
>>
>
>What the heck was that stick made of if you're counting its
>weight as part of the 5.5 pounds you mentioned?
>
>
I'll have exact links on a web page when I get it done, but they were
extremely light fiberglass tubing for kite building, and the very last
sections were some sort of dowel rod like 1/8" dia or so,, all also
for kite building,,

>
>
>>I really wish the GPS had worked to see what the true rate of fall
>>
>>
>
>How was this recovered without GPS?
>
>
hasn't been recovered as of yet.. made it to west coast of michigan
near grand rapids..

>
>
>>Bill made the awesome balltrak,, now we need someone to make a
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>>and pop altitudes so it can also crunch the numbers on descent
>>too as well as going up..
>>
>>

>
>Joe, I'm not sure I know what you're looking for in software. Are
>you looking for software that tells the descent speed for
>different times into the flight?
>
>Because Rick's Balloon Track for Windows does that internally
>(computes the descent speed based on parachute size and payload
>weight for inputs) in order to predict a landing spot.
>
I found where you can "Manually" input the decent rates for a few
altitudes, but no place does it ask for payload weights and or chute
sizes.. hmmmm,,

> It
>sounds like you may not employ BT for W because it would have
>alerted you to how far your mega 10 foot chute would have taken
>the small 5 pound payload.
>
>
I gotta dig into that more,, don;'t remember seeing anything like that..

Joe

>Hank
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>Yahoo! Groups Links
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3792. Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-29 03:03:55 UTC
From: Hank
Topic: 3787 Message: 3792

> hasn't been recovered as of yet.. made it to west coast of michigan
> near grand rapids..

Okay, I had an idea that using the word recovery was a presumption on my part, but what I was going on was the following where I missed the key word "estimated."

> ride up went from launch site to pop location 84 miles down range,,
> from the pop location to the landing spot an estimated 128 miles!

Is it correct that the 84 miles and 128 miles come from some software estimate, or are they best guesses based on terrain showing in the video?

Joe, when you get a chance, please do a short writeup on how you know (or think) where the balloon went. Will teams be going out to try a recovery in the coming days? Hope you can get that payload back before it deteriorates much.

Hank

3793. GOOD video and we too used a huge chute this time

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-29 12:52:50 UTC
From: L T
Topic: 3793 Message: 3793

Hi Guys just reading the email and We too with the EOS-4Maine project this time launched on Oct 20 th.

The chute was 32 foot once it unfolded during lift off and it was shaped like a square clover leaf witha 3 foot bleed hole shape like a triagle in the middle.

The chute after several ground test from 200 foot drops +- with different payloads showed a good long loft effect and a easy gluid pattern . the bleed hoe as a traigle shape verses a circle did not let a inverted vertex create on the top side useing a lite materal the chute every time for us created a full even envelope opening and the package arrived like a feather .Well its good for slow returns and experimants that need extra soft gentle landings. We tried it this time and used the easterly winds that day on caught the Jet stream at whew the package traveled at speeds up to 165 mph and a steady 130 +mph at 34,000 to 40,000 footheight level. now of coarse all my flights we are useing the chute in a upside down position for the purpose of drag and flight extended time over the water. but this was great and the APRS beacon perfectly from beginning to about 41,000 area but looks like with the surface temperture on the GPS receiver got the wind chill skin effect for the temp drop at the height area and the speed increased the chill and the unit was trying to warm up and the batery was takeing on a lond deep extra drain on the battery and at 41,000 level it froze up. but the balloon was a 1200 gram and filled to 1/3 the amount to barely to gain lift and this package was only 2.5 lbs and it looks as we flew past the boarder to the Bay of fundy. But this time there was over 5,000 people watch this flight and 4,200 + was boyscouts and others was adults and we have made that day not only a good launch and fun and discovery's .But a new HAM and or new weather man and or sceintist or something in the project drew something of a young mind to a adventure to becomeing a new dream of someone when ther e grow up .And yes from years to come Im hopeing to see a future famous people in related subjects and where they came from and hopes to see that MAINER.

And the Launch control net we had did a proffessionel job for flight and lift off and John you met this past summer was ground control and over 75 HAMS listened in and more as we know to enjoy the fun also. And this time we had a great weather man K1WTX and the APRS inflight tracking team N1WJO and KQ1L and suppor team KA1EKS,N1IME N1RY, and ground crew KB1SUD ,W1SK as HF frequency checker and other out ther for this EOS-4 MAINE LAUNCh that made it a success to the next one Comeing.

we'll be posting pictures of the flight on EOSRED yahoogroups site .

Later 73's LEE- W1lwt

73's
Lee
W1LWT@...

YANKEE ARC President / Editor
TRI-COUNTY ARES VHF TRAFFIC NET Manager

Do You Yahoo!?

Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3794. Re: [GPSL] Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-29 21:45:46 UTC
From: Joe
Topic: 3787 Message: 3794

Hank wrote:

>>hasn't been recovered as of yet.. made it to west coast of michigan
>>near grand rapids..
>>
>>
>
>Okay, I had an idea that using the word recovery was a presumption
>on my part, but what I was going on was the following where I missed
>the key word "estimated."
>
>
>
>>ride up went from launch site to pop location 84 miles down range,,
>>from the pop location to the landing spot an estimated 128 miles!
>>
>>
>
>Is it correct that the 84 miles and 128 miles come from some software
>estimate, or are they best guesses based on terrain showing in the
>video?
>
>
Launchsite,,of course Known, Richland Center Wisconsin,
Balloon POP site,, Kown,, two ways,, Via the video knew the city it
was over, and via chase crew , that were in same city watching the
balloon dississappear.,

Chase crews loose firm ground to chase after (Big bunch of water,,
Lake Michigan)

One Digi in Michigan and only one has the payload for over 7 hours all
by itsself, and no other hear it,, means it's on the ground and very
near by this ONE digi,, since any elevation will make it heard by
others, but this ONE and only one heard it all by itself for 7 hours
before death. and it's near Grand Rapids MI.

>Joe, when you get a chance, please do a short writeup on how
>you know (or think) where the balloon went. Will teams be going
>out to try a recovery in the coming days?
>
A few locals have been ouyt there looking,, had a false alarm of it
being found last night, but it wasn't it.

> Hope you can get that
>payload back before it deteriorates much.
>
>
Tjhis the way it's constructed should be good physically for years,, and
even electrically,, it's almost water proof the way it's constructed.

Joe & NSS

>Hank
>
>
>
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>
>Yahoo! Groups Links
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3795. Re: really big balloon flies solar telescope package

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-30 00:21:45 UTC
From: Mike Manes
Topic: 3795 Message: 3795

Thanks, Nate

The announcement for that flight came across the various balloon
reflectors, and many of us watched the live video from the on-board
camera in real time.

However, there are a BUNCH of linked articles on that site to coverage of
some other really cool BIG near space flights all over the planet, including
a NASA's work on solar balloons.

73 de Mike W5VSI

Nate Duehr wrote:
> http://www.sciencedaily.com/releases/2007/10/071023163914.htm
> --
> Nate Duehr
> nate@...
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3796. Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-30 00:51:51 UTC
From: Hank
Topic: 3787 Message: 3796

Joe,

Thanks, I get the picture now of how events transpired.

One more question: does your payload have a phone number
written on it in case a civilian finds it?

Hank

3797. Re: [GPSL] Re: [Ballooning] NSS-45 "October Skies" Summary video is up.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-10-30 01:17:18 UTC
From: Joe
Topic: 3787 Message: 3797

yup, as well as a e mail addy too

Hank wrote:

>Joe,
>
>Thanks, I get the picture now of how events transpired.
>
>One more question: does your payload have a phone number
>written on it in case a civilian finds it?
>
>Hank
>
>
>
>
>Yahoo! Groups Links
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3798. Re: [KNSP] KWU launch info / SSOK

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-01 04:07:52 UTC
From: Mike Manes
Topic: 3798 Message: 3798

Hi Pete,

Glad to see Salina flying again! GL with the launch and recovery.
APRS sure makes tracking and recovery easy compared to the ol' DF
days.

73 de Mike W5VSI, EOSS

pete sias wrote:
> Dateline Salina KS, 10.31.2007
>
> Kansas Wesleyan University's physics club will launch
> a 1200 gram balloon with a ~ 4 lb payload from the
> football field this Saturday. 11.3.2007 @ ~9 am local.
>
>
> Output of aprs will be on 144.39 using tiny trak 300
> mw xmiter & a 1/2w vertical dipole antenna. Call sign
> N0OY-11. Also using a Garmin series 18 gps for
> position info. This is the first time use of aprs by
> our group and looking forward to it.
>
> Payload consists of a video camera and data logging
> for IAT, OAT, RH, & Acceleration. No live data
> transmission.
>
> Will update here with a go / no go decision on Friday
> afternoon.
>
> I am assisting as the ad hoc adviser to the group.
>
>
> 73' Pete N0OY
>
> ---
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
> Yahoo! Groups Links

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3799. Re: [GPSL] Re: [KNSP] KWU launch info / SSOK

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-01 19:59:56 UTC
From: Joe
Topic: 3798 Message: 3799

Pete!

Welcome Back Dude!

Joe & NSS

Mike Manes wrote:

>Hi Pete,
>
>Glad to see Salina flying again! GL with the launch and recovery.
>APRS sure makes tracking and recovery easy compared to the ol' DF
>days.
>
>73 de Mike W5VSI, EOSS
>
>pete sias wrote:
>
>
>>Dateline Salina KS, 10.31.2007
>>
>>Kansas Wesleyan University's physics club will launch
>>a 1200 gram balloon with a ~ 4 lb payload from the
>>football field this Saturday. 11.3.2007 @ ~9 am local.
>>
>>
>>Output of aprs will be on 144.39 using tiny trak 300
>>mw xmiter & a 1/2w vertical dipole antenna. Call sign
>>N0OY-11. Also using a Garmin series 18 gps for
>>position info. This is the first time use of aprs by
>>our group and looking forward to it.
>>
>>Payload consists of a video camera and data logging
>>for IAT, OAT, RH, & Acceleration. No live data
>>transmission.
>>
>>Will update here with a go / no go decision on Friday
>>afternoon.
>>
>>I am assisting as the ad hoc adviser to the group.
>>
>>
>>73' Pete N0OY
>>
>>_____
>>Do You Yahoo!?

>>Tired of spam? Yahoo! Mail has the best spam protection around
>>http://mail.yahoo.com
>>
>>
>>List owner: KNSP-owner@yahoogroups.com
>>Group URL: http://groups.yahoo.com/group/KNSP
>>wner: KNSP-owner@yahoogroups.com
>>Group URL: http://groups.yahoo.com/group/KNSP
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>>Yahoo! Groups Links
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3800. 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-02 14:21:59 UTC
From: Daniel Bowen
Topic: 3800 Message: 3800

Hey Guys,
We're preparing to begin our trans-oceanic attempts this winter using a QRP 30M transmitter, transmitting CW and RTTY. We're looking for volunteers who would be willing to leave your 30M rig connected to your PC for 2-5 days to help monitor the balloon. Mike Coffey, KJ4Z and I have developed a modification to MMTTY that will allow your computer to relay the decoded RTTY back to our server, which will decode it and present it on our live tracking web page. The software, called DTRC, Distributed Tracking and Relay Client, was tested with great success this past spring. All that is required is a Windows 2000 or newer computer with soundcard input connected to your 30M radio, and an internet connection. Broadband is not necessary, as it's just sending text.

Optimal receiving locations would be in the Eastern US, New England, Eastern Canada, Bermuda, Greenland, Iceland, Great Britain, Europe and Western Africa. Those locations would be best, but for now anywhere will do.

We realize that there has been quite a bit of disagreement about how to fly over the ocean safely. We are trying to strike a responsible balance between performance and safety, and will be compromising efficiency, weight and speed somewhat to some extent to achieve these. Both passive and active methods will be employed to allow air traffic to avoid our balloons.

73,
Dan Bowen
K2VOL
University of Tennessee Amateur Radio Club
http://balloon.utarc.org

3801. Re: [GPSL] 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-02 14:23:12 UTC
From: Ryan Butler
Topic: 3800 Message: 3801

I'm in Iowa, but if it'll help I can probably accomodate.

IC-746PRO
RASCAL sound card interface
B&W 90 foot folded dipole @ 50 feet
Laptop w/XP Pro

Ryan, KB0JQO

On Fri, 2007-11-02 at 07:21 -0700, Daniel Bowen wrote:
> Hey Guys,
> We're preparing to begin our trans-oceanic attempts this winter using
> a QRP 30M transmitter, transmitting CW and RTTY. We're looking for
> volunteers who would be willing to leave your 30M rig connected to
> your PC for 2-5 days to help monitor the balloon. Mike Coffey, KJ4Z
> and I have developed a modification to MMTTY that will allow your
> computer to relay the decoded RTTY back to our server, which will
> decode it and present it on our live tracking web page. The software,
> called DTRC, Distributed Tracking and Relay Client, was tested with
> great success this past spring. All that is required is a Windows 2000
> or newer computer with soundcard input connected to your 30M radio,
> and an internet connection. Broadband is not necessary, as it's just
> sending text.
>
> Optimal receiving locations would be in the Eastern US, New England,
> Eastern Canada, Bermuda, Greenland, Iceland, Great Britain, Europe and
> Western Africa. Those locations would be best, but for now anywhere
> will do.
>
> We realize that there has been quite a bit of disagreement about how
> to fly over the ocean safely. We are trying to strike a responsible
> balance between performance and safety, and will be compromising
> efficiency, weight and speed somewhat to some extent to achieve these.
> Both passive and active methods will be employed to allow air traffic
> to avoid our balloons.
>
> 73,
> Dan Bowen
> K2VOL
> University of Tennessee Amateur Radio Club
> http://balloon.utarc.org
>
>
>
>

3802. Re: [GPSL] 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-02 15:33:13 UTC
From: mike@mcoffey.com
Topic: 3800 Message: 3802

As a quick follow-up: broadband or always-on connectivity would be preferable, as the client needs to communicate frequently with the server, and there is at present no provision for caching information for later transmission. For those who would like to help but would prefer a more old-fashioned method, we will also be transmitting a simplified set of information (lat/long/altitude, primarily) via CW, and would appreciate anyone who copies the balloon submitting that information manually through a form I will place on our web page.

73,
Mike
KJ4Z

> Hey Guys,
> We're preparing to begin our trans-oceanic attempts this winter using
> a QRP 30M transmitter, transmitting CW and RTTY. We're looking for
> volunteers who would be willing to leave your 30M rig connected to
> your PC for 2-5 days to help monitor the balloon. Mike Coffey, KJ4Z
> and I have developed a modification to MMTTY that will allow your
> computer to relay the decoded RTTY back to our server, which will
> decode it and present it on our live tracking web page. The
> software, called DTRC, Distributed Tracking and Relay Client, was
> tested with great success this past spring. All that is required is
> a Windows 2000 or newer computer with soundcard input connected to
> your 30M radio, and an internet connection. Broadband is not
> necessary, as it's just sending text.
>
> Optimal receiving locations would be in the Eastern US, New England,
> Eastern Canada, Bermuda, Greenland, Iceland, Great Britain, Europe and
> Western Africa. Those locations would be best, but for now anywhere will
> do.
>
> We realize that there has been quite a bit of disagreement about how to
> fly over the ocean safely. We are trying to strike a responsible balance
> between performance and safety, and will be compromising efficiency,
> weight and speed somewhat to some extent to achieve these. Both passive
> and active methods will be employed to allow air traffic to avoid our
> balloons.
>
> 73,
> Dan Bowen
> K2VOL
> University of Tennessee Amateur Radio Club
> http://balloon.utarc.org
>

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> Yahoo! Groups Links
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3803. Talor U. HALO Network Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-02 20:17:21 UTC
From: Jeff Dailey
Topic: 3803 Message: 3803

Taylors HALO network is flying on Saturday 11-3-2006
all balloons will be airborn by 10:30AM Indaina time.

Taylor U. KB9ZNZ-10
Minnesota U. KB9ZNZ-4
Valparaiso U. KB9ZNZ-3
St. Paul MN. KB9ZNZ-5
DePauw U. KB9ZNZ-6
Cedarville U. KB9ZNZ-9
Iowa State U. KB0MGO-11
Central IL. KB9ZNZ-2

The crossband repeater will being flying on the Taylor
balloon.

Uplink: 146.46 Downlink: 446.025

Jeff Dailey
Taylor BalloonSAT

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3804. Re: [GPSL] 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 03:34:11 UTC
From: Mike Manes
Topic: 3800 Message: 3804

Hi Dan,

What 30m freq will you be using? What callsign? What baud rate and serial format? ERP?

Note that with the sunspot cycle as low as it is, skip props will most likely be daytime events only. Overnight tracking may be critical, as this is when the balloon loses the benefit of solar thermal lift - and those beacons are likely to be heard only by near-line-of-sight stations.

73 de Mike W5VSI
EOSS

Daniel Bowen wrote:
> Hey Guys,
> We're preparing to begin our trans-oceanic attempts this winter using a QRP 30M transmitter, transmitting CW and RTTY. We're looking for volunteers who would be willing to leave your 30M rig connected to your PC for 2-5 days to help monitor the balloon. Mike Coffey, KJ4Z and I have developed a modification to MMTTY that will allow your computer to relay the decoded RTTY back to our server, which will decode it and present it on our live tracking web page. The software, called DTRC, Distributed Tracking and Relay Client, was tested with great success this past spring. All that is required is a Windows 2000 or newer computer with soundcard input connected to your 30M radio, and an internet connection. Broadband is not necessary, as it's just sending text.
>
> Optimal receiving locations would be in the Eastern US, New England, Eastern Canada, Bermuda, Greenland, Iceland, Great Britain, Europe and Western Africa. Those locations would be best, but for now anywhere will do.
>
> We realize that there has been quite a bit of disagreement about how to fly over the ocean safely. We are trying to strike a responsible balance between performance and safety, and will be compromising efficiency, weight and speed somewhat to some extent to achieve these. Both passive and active methods will be employed to allow air traffic to avoid our balloons.
>
> 73,
> Dan Bowen
> K2VOL
> University of Tennessee Amateur Radio Club
> http://balloon.utarc.org
>
>
>
> Yahoo! Groups Links
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>

>
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3805. Re: [GPSL] 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 02:49:55 UTC
From: Mike Coffey
Topic: 3800 Message: 3805

Hello Mike,

The frequency will be 10.106, +/- one or two kHz. We will announce the exact frequency closer to launch time. AA4UT/B at 45 baud ITA2 RTTY. ERP is expected to be in the range of 3-5 watts. CW transmissions are at about 12 WPM.

Hope that helps,
73,
Mike
KJ4Z

Mike Manes wrote:
>
> Hi Dan,
>
> What 30m freq will you be using? What callsign? What baud rate and serial
> format? ERP?
>

3806. Re: [GPSL] 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 04:41:21 UTC
From: Mike Manes
Topic: 3800 Message: 3806

Thanks, Mike

That oughta make for a pretty good HF beacon. I assume you're gonna
be driving a vertical half-wave (48 ft) dipole?

How far out are you from nailing a firm launch date? And what's your
balloon configuration?

73 de Mike W5VSI, EOSS

Mike Coffey wrote:
> Hello Mike,
>
> The frequency will be 10.106, +/- one or two kHz. We will announce the
> exact frequency closer to launch time. AA4UT/B at 45 baud ITA2 RTTY.
> ERP is expected to be in the range of 3-5 watts. CW transmissions are
> at about 12 WPM.
>
> Hope that helps,
> 73,
> Mike
> KJ4Z
>
>
>
> Mike Manes wrote:
>> Hi Dan,
>>
>> What 30m freq will you be using? What callsign? What baud rate and serial
>> format? ERP?
>>
>
>
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>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3807. Hi MIKE from Lee and the EOSRED group in Maine

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 05:04:47 UTC
From: lt
Topic: 3807 Message: 3807

that is the recent tx we used on the EOS-4 project and it worked fine the ant we used was 1/4 w and the GPS rec did good unitl it froze up.. Make sure you insulate the receiver. The Package we did got upto 168 mph and the temps was dropping quickly around -71 degrees and 19 GPS got cold and started to draw excess power and killed the battery around 41,300 foot level with that speed and wind chill effect.But the 300mw tx did great.Ive been playing witha few others on free float gluiders and there preformace is good. We had one burn out after 16 hours with 12.2 volts. Keep it at 8-9 volts and it doesnt heat up as fast.

great time this summer and glad to meet you all.

LEE-w1lwt

EOSRED@yahoogroups.com

3808. Re: [GPSL] Hi MIKE from Lee and the EOSRED group in Maine

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 13:29:40 UTC
From: Joe
Topic: 3807 Message: 3808

Hi LT,, Joe here, NSS, I have a question here,,

lt wrote:

>that is the recent tx we used on the EOS-4
>
Missed the original message,, so what was the TX?

> project and it worked fine
>the ant we used was 1/4 w
>
as in a 1/4 wave ground plane? if so what about the other half of the antenna? it needs the counterpoise so to speak right?

>and the GPS rec did good unitl it froze up..
>Make sure you insulate the receiver.
>
What time did this happen?

> The Package we did got upto 168
>mph and the temps was dropping quickly around -71 degrees
>
I hope you don't mean that it got a wind chill from the 168 MPh wind speed,, but that it was just at a very cold level and the ambient air temp was -71 degrees, because be the winds 50 MPh, or 200 MPh,, to the balloon it's still zero wind speed, there is no wind relative to the balloon true?

>and 19 GPS
>got cold and started to draw excess power and killed the battery
>around 41,300 foot level with that speed and wind chill effect.
>
Oops,, should have read further,, COLD yes,, but unless the balloon has popped,, no matter what the wind speed is, the balloon is going the same speed, so no wind chill..

>But the
>300mw tx did great.Ive been playing witha few others on free float
>gluiders and there preformace is good. We had one burn out after 16
>hours with 12.2 volts. Keep it at 8-9 volts and it doesnt heat up as
>fast.
>
>
Still very interested in this transmitter

Joe

>
>great time this summer and glad to meet you all.
>
>
>LEE-w1lwt
>
>
>EOSRED@yahoogroups.com
>
>
>
>
>Yahoo! Groups Links
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3809. Re: [GPSL] Hi MIKE from Lee and the EOSRED group in Maine

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 21:19:26 UTC
From: Mike Manes
Topic: 3807 Message: 3809

Hi Lee,

Sometimes a little waste heat is a good thing. Tough to balance it against
conducted heat loss and hot spots due to lack of free convection cooling,
especially for long-duration flights, however. Lots of insulation with
a thermostatic vent to let in cold ambient air if things get too hot may
be a practical solution.

BTW, there was no attm't re your antenna.

73 de Mike W5VSI, EOSS

lt wrote:
> that is the recent tx we used on the EOS-4 project and it worked fine
> the ant we used was 1/4 w and the GPS rec did good unitl it froze up..
> Make sure you insulate the receiver. The Package we did got upto 168
> mph and the temps was dropping quickly around -71 degrees and 19 GPS
> got cold and started to draw excess power and killed the battery
> around 41,300 foot level with that speed and wind chill effect.But the
> 300mw tx did great.Ive been playing witha few others on free float
> gluiders and there preformace is good. We had one burn out after 16
> hours with 12.2 volts. Keep it at 8-9 volts and it doesnt heat up as
> fast.
>
>
> great time this summer and glad to meet you all.
>
>
> LEE-w1lwt
>
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> EOSRED@yahoogroups.com
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3810. Re: [KNSP] KWU / SSOK recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 21:51:02 UTC
From: Mike Manes
Topic: 3810 Message: 3810

Congratulations on a successful return to the saddle, Pete.
That APRS sure helps, doesn't it?
73 de Mike W5VSI, EOSS

pete sias wrote:
> South of Americus KS in a large field, payload
> recovered with no damage. HOBO data collection system
> and the APRS worked without problems. The mobile
> recovery van got packets down to ~600 ft. We also saw
> the envelope burst.
>
> Will post some data later but being only the second
> flight for the physics club things went very well.
>
> best 73,
>
> Pete N0OY
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3811. Thirteen balloons in the air today

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 21:26:41 UTC
From: wb8elk@aol.com
Topic: 3811 Message: 3811

Thought you'd all enjoy seeing a Findu map of the 13 balloons that were in the air this Saturday Nov. 3rd....at least the 13 I know about....Zoom out to a view of the whole USA to see all the balloons on the Google Map.

http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0RNB-1
(http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0RNB-1)

I discovered the unannounced Idaho State U Rise program's balloon (K9GP-10 and K3ZGO-11) while looking at the APRS-IS VHF propagation map and noticed a "strange" band opening over Idaho....the other strange band openings were over the midwest with the HALO balloons, as well as Kansas and Arizona.

http://www.mountainlake.k12.mn.us/ham/aprs/path.cgi?map=na
(http://www.mountainlake.k12.mn.us/ham/aprs/path.cgi?map=na)

- Bill WB8ELK

********** See what's new at http://www.aol.com

3812. Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-03 21:43:52 UTC
From: wb8elk@aol.com
Topic: 3812 Message: 3812

Looks like 3 balloons over MN....I missed KD0AUH-11....also KD7LMO-12 was transmitting but I believe it was on the same balloon as KD7LMO-11.

http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0RNB-1,KD0AUH-11
(http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0RNB-1,KD0AUH-11)

- Bill WB8ELK

********** See what's new at http://www.aol.com

3813. HALO Network

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 00:38:38 UTC
From: Jeff Dailey
Topic: 3813 Message: 3813

All Eight of the balloons were recovered, the network
was a success.

Jeff Dailey
Taylor U. BalloonSAT

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http://mail.yahoo.com

3814. Re: [Balloon_Sked] Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 01:53:57 UTC
From: K. Mark Caviezel
Topic: 3812 Message: 3814

darn..... coulda made it 15 if I had packed my ng0x-11
beacon on my hot air balloon flight to just shy of 14k
feet. We tried a quicky 2m QSO with ORB/kc5trb in
Tulsa, but we missed the connection.

- Mark ng0x

--- wb8elk@... wrote:

> Looks like 3 balloons over MN....I missed
> KD0AUH-11....also KD7LMO-12 was
> transmitting but I believe it was on the same
> balloon as KD7LMO-11.
>
>
_http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-
>
5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0R
> NB-1,KD0AUH-11_
>
(http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,K
B9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP
> -10,K3ZGO-11,N0RNB-1,KD0AUH-11)
>
> - Bill WB8ELK
>
>
>
>
> ********** See what's
> new at http://www.aol.com
>

3815. Re: [GPSL] HALO Network

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 03:09:39 UTC
From: Mike Manes
Topic: 3813 Message: 3815

Fantastic! Kudos, Jeff!
73 de Mike W5VSI, EOSS

Jeff Dailey wrote:
> All Eight of the balloons were recovered, the network
> was a success.
>
>
> Jeff Dailey
> Taylor U. BalloonSAT
>
> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3816. Re: [GPSL] Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 05:35:24 UTC
From: Greg Williams
Topic: 3812 Message: 3816

wb8elk@... wrote:
>
> Looks like 3 balloons over MN....I missed KD0AUH-11....also KD7LMO-12
> was transmitting but I believe it was on the same balloon as KD7LMO-11.
>
> http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0RNB-1,KD0AUH-11
> <http://www.findu.com/cgi-bin/find.cgi?call=KB9ZNZ-2,KB9ZNZ-3,KB9ZNZ-4,KB9ZNZ-5,KB9ZNZ-6,KB9ZNZ-9,KB9ZNZ-10,kb0mgq-11,N0OY-11,KD7LMO-11,k9GP-10,K3ZGO-11,N0RNB-1,KD0AUH-11>
>
> - Bill WB8ELK
>

With all these balloons in the air at once, perhaps we need to have an ARHAB Field Day with all the groups possible participating from their respective locations.

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

3817. Re: [GPSL] Correction 14 balloons in the air - Field Day Balloons next year?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 07:33:37 UTC
From: wb8elk@aol.com
Topic: 3817 Message: 3817

Greg,

I try to fly something most Field Days....I think it'd be great to try to
get as many ARHAB flights up as possible next Field Day.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3818. Re: [GPSL] 30M listeners?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 07:49:32 UTC
From: Dan Bowen
Topic: 3800 Message: 3818

Thanks Ryan, that setup sounds great. You can download the DTRC
software from our website: http://balloon.utarc.org. A warning
however, the software WILL be updated before the next flight, and you
will need to download the latest version before the flight. We
encourage you and anyone else to download it and play with it, it
should decode the ARRL nightly bulletins with no software changes if
your radio is set up correctly I think. We will send you an email
when a newer version is available, and also watch the mission status
page for updates:
http://www.utarc.org/wiki/index.php/Icarus_X_Status
Thanks,
Dan

On Nov 2, 2007, at 10:23 AM, Ryan Butler wrote:

> I'm in Iowa, but if it'll help I can probably accomodate.
>
> IC-746PRO
> RASCAL sound card interface
> B&W 90 foot folded dipole @ 50 feet
> Laptop w/XP Pro
>
> Ryan, KB0JQO
>
> On Fri, 2007-11-02 at 07:21 -0700, Daniel Bowen wrote:
> > Hey Guys,
> > We're preparing to begin our trans-oceanic attempts this winter
> using
> > a QRP 30M transmitter, transmitting CW and RTTY. We're looking for
> > volunteers who would be willing to leave your 30M rig connected to
> > your PC for 2-5 days to help monitor the balloon. Mike Coffey, KJ4Z
> > and I have developed a modification to MMTTY that will allow your
> > computer to relay the decoded RTTY back to our server, which will
> > decode it and present it on our live tracking web page. The
> software,
> > called DTRC, Distributed Tracking and Relay Client, was tested with
> > great success this past spring. All that is required is a Windows
> 2000
> > or newer computer with soundcard input connected to your 30M radio,
> > and an internet connection. Broadband is not necessary, as it's just
> > sending text.
> >
> > Optimal receiving locations would be in the Eastern US, New England,
> > Eastern Canada, Bermuda, Greenland, Iceland, Great Britain,
> Europe and

> > Western Africa. Those locations would be best, but for now anywhere
> > will do.
> >
> > We realize that there has been quite a bit of disagreement about how
> > to fly over the ocean safely. We are trying to strike a responsible
> > balance between performance and safety, and will be compromising
> > efficiency, weight and speed somewhat to some extent to achieve
> these.
> > Both passive and active methods will be employed to allow air
> traffic
> > to avoid our balloons.
> >
> > 73,
> > Dan Bowen
> > K2VOL
> > University of Tennessee Amateur Radio Club
> > http://balloon.utarc.org
> >
> >
> >
> >
>
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3819. EOS-4 question covered

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 13:48:55 UTC
From: L T
Topic: 3819 Message: 3819

Well 1/4 w antennna yes we used this this time in a upside down position and with disk 18.5 inches to form its ground plane above the package it worked great direct contact for more than 90 miles. at 300 mw of power for the microtracker.

the temp sensor on outer package showed we was at a fast drop of temperture during its accent and fast travel with the Jetstream the inside temp also showed a drop in temp at the altitude and travel the pressure inside the package confirmed what we saw and there is a skin effect of temperture and wind chill .the package had a vent release of a postive pressure but it seemed it opened in the winds or movement of traveling at such a high speed of travel . so the vent opened and the air temp drop could clearly been seen as we watch this one travel. Next package will have a protection over the vent release. the parachute was seen after take off unfolding to a 32 foot diameter shape like a digital cloverleaf looks which was the main factor of the flight to see how the chute would at as a KITE and it did perfectly we also had full veiw for over 45 minutes with eyes and scopes in the witnessing of the unfolding and the chute fully opened it was the fantastic scene of the day
picture perfect.

we will use a microtracker 300watt one again but with bouy type antenna mount to set upright in the water. The antenna this next one will also be a wire dipole 1/2wave and a ater timer release once its in the water. so package seperates from chute and strings in the water.

Next summer we'll be launching 5 balloons together with each its own cut of release to extend its flight also useing the chute as discribe earlier for drag and speed and return.

LEE

73's
Lee
W1LWT@...

YANKEE ARC President / Editor
TRI-COUNTY ARES VHF TRAFFIC NET Manager

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3820. EOS-4 question covered

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 13:48:58 UTC
From: L T
Topic: 3819 Message: 3820

Well 1/4 w antennna yes we used this this time in a upside down position and with disk 18.5 inches to form its ground plane above the package it worked great direct contact for more than 90 miles. at 300 mw of power for the microtracker.

the temp sensor on outer package showed we was at a fast drop of temperture during its accent and fast travel with the Jetstream the inside temp also showed a drop in temp at the altitude and travel the pressure inside the package confirmed what we saw and there is a skin effect of temperture and wind chill .the package had a vent release of a postive pressure but it seemed it opened in the winds or movement of traveling at such a high speed of travel . so the vent opened and the air temp drop could clearly been seen as we watch this one travel. Next package will have a protection over the vent release. the parachute was seen after take off unfolding to a 32 foot diameter shape like a digital cloverleaf looks which was the main factor of the flight to see how the chute would at as a KITE and it did perfectly we also had full veiw for over 45 minutes with eyes and scopes in the witnessing of the unfolding and the chute fully opened it was the fantastic scene of the day
picture perfect.

we will use a microtracker 300watt one again but with bouy type antenna mount to set upright in the water. The antenna this next one will also be a wire dipole 1/2wave and a ater timer release once its in the water. so package seperates from chute and strings in the water.

Next summer we'll be launching 5 balloons together with each its own cut of release to extend its flight also useing the chute as discribe earlier for drag and speed and return.

LEE

73's
Lee
W1LWT@...

YANKEE ARC President / Editor
TRI-COUNTY ARES VHF TRAFFIC NET Manager

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http://mail.yahoo.com

3821. Re: [GPSL] Correction 14 balloons in the air - Field Day Balloons next year?

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 15:17:09 UTC
From: Joe
Topic: 3817 Message: 3821

would they count as a satellite contact? he he he

Joe

wb8elk@... wrote:

> Greg,
>
> I try to fly something most Field Days....I think it'd be great to
> try to get as many ARHAB flights up as possible next Field Day.
>
> - Bill WB8ELK
>
>
>
> ---
> See what's new at AOL.com
> <http://www.aol.com?NCID=AOLCMP00300000001170> and Make AOL Your
> Homepage <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.
>

3822. BASE18 - HALO flight burst photos

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-04 20:13:12 UTC
From: BASE
Topic: 3817 Message: 3822

DePauw gladly participated in the HALO project with
our 18th flight (all during the last 12 months). I've
posted a partial summary of our flight including a set
of images recording the balloon burst at 96,700 feet.

This is the link to the flight webpage (photos and
video of burst at the bottom of the page):

http://www.depauw.edu/acad/physics/base/pages/BASE18.asp

Howard Brooks

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http://mail.yahoo.com

3823. Re: [GPSL] BASE18 - HALO flight burst photos

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 02:02:35 UTC
From: Mark Conner
Topic: 3817 Message: 3823
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3824. Re: [GPSL] BASE18 - HALO flight burst photos

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 02:17:09 UTC
From: Mike Manes
Topic: 3817 Message: 3824

Hi Mark,

Those pix were very nice - and it's alarming how much latex was left
hanging on the parachute's apex - PBC for sure!

You might be interested in the ATV frame shots of the burst of EOSS-30 at:

http://www.eoss.org/ansrecap/ar_030/recap30c.htm

That flight flew in May '97, long before we figured out how to dump the
shards ASAP.

73 de Mike W5VSI, EOSS

Mark Conner wrote:
> Holy cow! Those burst stills are fantastic! You can see the shadow of
> the shards on the 'unexploded' portion of the balloon.
>
> Just awesome. I have to get me some photos like that.
>
> 73 de Mark N9XTN
> www.nstar.org <http://www.nstar.org>
>
>
> On 11/4/07, *BASE* <basedepauw@... <mailto:basedepauw@...>>
> wrote:
>
> DePauw gladly participated in the HALO project with
> our 18th flight (all during the last 12 months). I've
> posted a partial summary of our flight including a set
> of images recording the balloon burst at 96,700 feet.
>
> This is the link to the flight webpage (photos and
> video of burst at the bottom of the page):
>
> http://www.depauw.edu/acad/physics/base/pages/BASE18.asp
>
> Howard Brooks
>
> _____
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

3825. Re: [GPSL] Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 14:48:20 UTC
From: PAUL VERHAGE
Topic: 3812 Message: 3825

This something I'd like to see. We could call it Field Day Super Launch.

Paul

With all these balloons in the air at once, perhaps we need to have an ARHAB Field Day with all the groups possible participating from their respective locations.

3826. Field Day Balloons/ 2nd annual International Solar Balloon Day

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 14:59:44 UTC
From: K. Mark Caviezel
Topic: 3826 Message: 3826

> Greg,
>
> I try to fly something most Field Days....I think
it'd be great to
> try to get as many ARHAB flights up as possible next
Field Day.
>
> - Bill WB8ELK
>
>
Bill:
Come to think, combining Field Day ballooning with the
2nd annual "International Solar Balloon Day" may be a
good match. Field day is pretty close to the summer
solstice, all day flights should be good and long.
We've yet to gather interest from southern hemisphere
hams, thus negating the need for a ISBD on the
southern hemisphere summer solstice. Unlike a short
duration latex flight, an all day solar balloon
provides a serious platform for communications
purposes.

All interested parties are invited to join the yahoo
group solar balloon forum.

best regards,

- Mark ng0x

3827. Re: [GPSL] Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 15:08:43 UTC
From: Pete Lilja
Topic: 3812 Message: 3827

Sounds great to me! How about this Saturday? Just kidding. It's just that this past Saturday was my first chance to even listen in on a balloon flight and I heard 3 different balloons. I'm sort of excited about this stuff.

I was again watching the incredible video from the flight linked at the bottom of the page here: http://www.depauw.edu/acad/physics/base/pages/BASE18.asp with the volume turned up. I noticed what I'd call a 'rubbing' sound of probably suspensions lines and quick links. Then the balloon bursts with no sound but more mechanical sounds becomes audible during PBC. Is there not enough air to transmit sound at 100,000'? Are any sounds conducted only through solid material at that altitude? I'm curious and surprised.

Pete
KCØGPB

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Monday, November 05, 2007 8:48 AM
Subject: Re: [GPSL] Correction 14 balloons in the air

This something I'd like to see. We could call it Field Day Super Launch.

Paul

With all these balloons in the air at once, perhaps we need to have an ARHAB Field Day with all the groups possible participating from their respective locations.

3828. Re: [GPSL] Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 15:09:17 UTC
From: PAUL VERHAGE
Topic: 3812 Message: 3828
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3829. Lack of Air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 15:20:00 UTC
From: Pete Lilja
Topic: 3829 Message: 3829

Thanks, Paul. While I've been reading about HABing since the Spring of this year (when I first learned of it) I hadn't read about nor considered a lack of sound at these altitudes.

I'm in Iowa. And I've been in contact with the folks at Iowa State and some other local flyers. I hope to make my first flight very soon.

GPSL is on the schedule provided all works out.

Pete
KCØGPB
----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Monday, November 05, 2007 9:09 AM
Subject: Re: [GPSL] Correction 14 balloons in the air

Video recordings I've made from near space flights show the sound levels gradually decreasing. At 100,000 feet it's nearly silent. The burst can be heard followed by the howl of air as the capsules descend.

Where are you located? There are probably a balloon group nearby. GPSL will be held in KC this year. Perhaps you could attend that.

Paul

>>> "Pete Lilja" <plilja@...> 11/5/2007 8:08 AM >>>

Sounds great to me! How about this Saturday? Just kidding. It's just that this past Saturday was my first chance to even listen in on a balloon flight and I heard 3 different balloons. I'm sort of excited about this stuff.

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Pete
KCØGPB

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Monday, November 05, 2007 8:48 AM
Subject: Re: [GPSL] Correction 14 balloons in the air

This something I'd like to see. We could call it Field Day Super Launch.

Paul

With all these balloons in the air at once, perhaps we need to have an ARHAB Field Day with all the groups possible participating from their respective locations.

3830. Re: [GPSL] Lack of Air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 15:40:05 UTC
From: PAUL VERHAGE
Topic: 3829 Message: 3830
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3831. Re: [GPSL] Lack of Air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 15:46:45 UTC
From: Pete Lilja
Topic: 3829 Message: 3831

I guess I haven't read everything. 8-)

I'll take a look.

Pete
----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Monday, November 05, 2007 9:40 AM
Subject: Re: [GPSL] Lack of Air

I write a column for Nuts and Volts magazine. One of my articles was on the sounds in near space.

Paul□

>>> "Pete Lilja" <plilja@cfu.net> 11/5/2007 8:20 AM >>>

Thanks, Paul. While I've been reading about HABing since the Spring of this year (when I first learned of it) I hadn't read about nor considered a lack of sound at these altitudes.

I'm in Iowa. And I've been in contact with the folks at Iowa State and some other local flyers. I hope to make my first flight very soon.

GPSL is on the schedule provided all works out.

Pete
KCØGPB
----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Monday, November 05, 2007 9:09 AM
Subject: Re: [GPSL] Correction 14 balloons in the air

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Paul

>>> "Pete Lilja" <plilja@...> 11/5/2007 8:08 AM >>>

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Pete
KCØGPB

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Monday, November 05, 2007 8:48 AM
Subject: Re: [GPSL] Correction 14 balloons in the air

This something I'd like to see. We could call it Field Day Super Launch.

Paul

With all these balloons in the air at once, perhaps we need to have an ARHAB Field Day with all the groups possible participating from their respective locations.

3832. Re: [GPSL] BASE18 burst sound??

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-05 18:15:49 UTC
From: BASE
Topic: 3812 Message: 3832

Dear Pete,

I'm afraid that my editing of the BASE 18 burst segment somehow lost the sound of the burst. I can hear it in the original uncut video. The video segment from BASE 16, where the camera was three times closer to the balloon clearly has the sound of the burst in the online version. (Watch http://www.depauw.edu/acad/physics/base/images/base16BalloonBurst.wmv)

The literature claims that audible sounds are carried through the air to altitudes of about 80 km or 400,000 feet.

Much of the sound is mechanically induced by the tie-wrapped connection of the camera to the styrofoam box.

I'll attempt to re-edit the clip for the BASE 18 burst to accurately convey the audio signal.

Howard

--- Pete Lilja <plilja@...> wrote:

> Sounds great to me! How about this Saturday? Just
> kidding. It's just that this past Saturday was my
> first chance to even listen in on a balloon flight
> and I heard 3 different balloons. I'm sort of
> excited about this stuff.
>
> I was again watching the incredible video from the
> flight linked at the bottom of the page here:
>
http://www.depauw.edu/acad/physics/base/pages/BASE18.asp
> with the volume turned up. I noticed what I'd call
> a 'rubbing' sound of probably suspensions lines and
> quick links. Then the balloon bursts with no sound
> but more mechanical sounds becomes audible during
> PBC. Is there not enough air to transmit sound at
> 100,000'? Are any sounds conducted only through
> solid material at that altitude? I'm curious and
> surprised.
>
> Pete
> KC?GPB

>
>
> ----- Original Message -----
> From: PAUL VERHAGE
> To: GPSL@yahoogroups.com
> Sent: Monday, November 05, 2007 8:48 AM
> Subject: Re: [GPSL] Correction 14 balloons in the
> air
>
>
>
> This something I'd like to see. We could call it
> Field Day Super Launch.
>
> Paul
>
> With all these balloons in the air at once,
> perhaps we need to have an ARHAB Field Day with all
> the groups possible participating from their
> respective locations.
>
>
>
>

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3833. gREAT PICTURES CONGRADS ON halo 18TH FLIGHT--fROM mAINE/lee-W1LWT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 02:02:38 UTC
From: L T
Topic: 3833 Message: 3833

WOW THE PICTURES WAS GREAT.

We will be doing that soon also but other experiments first and next on in DEC useing !) gunnplexer and a 32 second repeater for PSK and SSTV.

FEB will be EOS-5 NEw package with more experiments in side and a large chte again.

Bill - YES on the field day balloons in the air many as we can .COUNT ME IN on that Ill be sponcering a Filed Day at my Farm field in JUNE 2008 and we will float a 80m and a 160 m antenna then we'll launch in there too.

IDEA with Yours Bill How about all balloons in America in the Air at the same time???And Many states possible. with the name of each state as a SSID just a ideas in the air. Count on MAINE we'll be up there.

LEE-- W1lwt

EOSRED project manager

73's
Lee
W1LWT@...

YANKEE ARC President / Editor
TRI-COUNTY ARES VHF TRAFFIC NET Manager

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3834. Re: [GPSL] Correction 14 balloons in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 02:21:16 UTC
From: Mike Manes
Topic: 3812 Message: 3834

Heck, every EOSS launch is just another field day -- rise at zero-dark-30,
drive a fully loaded vehicle out to the boonies somewhere, set up antennas,
stations, power, logs, etc and prep, fill and launch. Then do some hammin'.
After LOS at ground station, tear down, pack up, drive back and unload.
Maybe grab lunch at local greasy spoon with the teams on the way.

Problem with balloon QSOs is that they're via repeaters, which don't count
towards FD score. Folks working FD are probably gonna concentrate on
making max score and thus wouldn't likely waste time with balloon QSOs.
In fact, EOSS always schedules flight AROUND FD, since it depletes our
operational teams!

73 de Mike W5VSI

PAUL VERHAGE wrote:
> This something I'd like to see. We could call it Field Day Super Launch.
>
> Paul
>
> With all these balloons in the air at once, perhaps we need to have an
> ARHAB Field Day with all the groups possible participating from their
> respective locations.
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3835. [Fwd: [Ballooning] [APRS] 10 MHz Amateur Radio balloon to Cross the Atlantic (fwd)]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 04:21:39 UTC
From: Mike Manes
Topic: 3835 Message: 3835

FYI. Let's listen for it on 30m after we get back from EOSS-124/125.
73 de Mike W5VSI

-------- Original Message --------
Subject: [Ballooning] [APRS] 10 MHz Amateur Radio balloon to Cross the Atlantic (fwd)
Date: Mon, 5 Nov 2007 16:01:48 -0700 (MST)
From: Michael Gray <mgray@...>
Reply-To: Ballooning@yahoogroups.com
To: ANSR Ballooning <Ballooning@yahoogroups.com>

10 MHz Amateur Radio balloon to cross the Atlantic

Amateurs at the University of Tennessee Amateur Radio Club are launching a balloon with a beacon in the 10 MHz Amateur Band that may travel across the Atlantic during its 5-day mission.

The latest Icarus X mission UX-19, will hopefully launch by next weekend and its goal is to be the first Amateur Radio equipped helium balloon to cross the Atlantic.

The balloon payload will include a GPS unit and CPU that will regulate the balloon's altitude and send telemetry on 10.123 MHz in CW and RTTY formats.

The 10 MHz transmitter will run 3 watts output into a half wave dipole hung below the balloon.

The students need receiving stations to copy the telemetry data. They have developed a decoding program that anyone can download from the University of Tennessee web site which will relay the values back to the campus server.

All that is needed for the receiving station is a good antenna and a computer with a high speed internet connection. Audio from the receiver is feed into the sound card of the computer and Mtty will decode the values and give a nice visual status page of the flight data. Also the data will be sent to the University of Tennessee's server where it will be placed onto the club's web page for everyone to follow.

The flight has been dubbed 'The Spirit Of Knoxville' after Lindbergh's first trans-Atlantic flight.

The flight could be up to a five days long but the actual crossing should take only three days. The balloon will be carrying enough

ballast and battery power for five days and nights. Check the UT Radio Club's web page at http://www.utarc.org/ for more technical details and a host of photos.

This site chronicles the last years worth of effort at developing the hardware and flight testing the different systems to produce an autonomous altitude control.

In addition to the 30m beacon there will also be an APRS beacon AA4UT-11 on 144.390 MHz FM.

University of Tennessee Amateur Radio Club
http://www.utarc.org/

If you go to their website and click on the Balloon Launch link right above the article you'll go to a page with a neat You Tube video of a previous launch.

73,
John - AG9D

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

Yahoo! Groups Links

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3836. FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 05:43:22 UTC
From: Greg Williams
Topic: 3836 Message: 3836

Wow! I didn't think my thought would BALLOON into this!! HAH! I KILL ME!!!!!

As for doing a super-launch on Field Day, I'm kinda torn. There's pros and cons about it. I'd like to have everyone do an ARHAB "Field Day", but if it's during ARRL's Field Day, it might be 2nd banana to the normal ops. I'd prefer a weekend we can toot our own horn without another event being in competition for the spotlight.

Pros: It generates interest in ARHAB and may spur some new groups to form, and old groups to come back in.
It gets interest generated from the general public and schools (where applicable)
FD is the one weekend where amateur radio gets the most media (normally local news media) exposure.
It's an opportunity to get a possible record number of balloons in the air.

Cons: Some groups may already be involved with the local FD clubs or groups and will not have time and/or resources.
There's no classification for ARHAB ops (that I'm aware of).
All the media attention will be focused on Field Day itself, and the ARHAB might get a footnote or a paragraph or two. Or nothing.

Perhaps if there's enough interest, we could petition the ARRL to have ARHAB included as its own FD category, or provisioned as a satellite QSO-type entry, but it looks to be eligible for 100 points as a "Non-traditional mode demonstration" already, depending on what's in the payload.
More food for thought.

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

3837. Re: [GPSL] FDSL - Field Day Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 07:07:00 UTC
From: wb8elk@aol.com
Topic: 3837 Message: 3837

Hi Greg,

When I've done Field Day balloons in the past, I find it's a great way to demonstrate a flight to the whole club and all the many ham-curious folks who come over to see what's going on....the Huntsville club sets up next to Space Camp and the Space and Rocket Museum, so they get a lot of visitors.

Even though there are no points for the balloon contacts, it sure is worth it to get folks interested.....and yes, we have gotten media attention as a result. Perhaps the League might consider doing a special mode credit for a balloon contact though...particularly if we can organize enough of a group Field Day effort to cover a good part of the US....something to ponder.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3838. UX-18 Post-flight info

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 08:46:21 UTC
From: Dan Bowen
Topic: 3838 Message: 3838

Hi All,
Just wanted to recap UX-18 for everybody, though it has been a few weeks. UX-18 was our most successful flight to date in the Icarus series, with all primary mission objectives achieved. The main goals of this flight were to finalize software settings that trigger ballast dump and test the advanced live telemetry web page. The balloon lift was provided by two balloons, a latex Kaymont 350G, and a plastic Zero Pressure made of 2mil U-line 48" tube (that's width when the tube is flat on a roll). This design was used because we needed a quick, economical way to test our ballast system. A full ZP balloon of the U-Line tube we have would have been very inefficient, due to the thick plastic, and we didn't have the sealer experience to put together a whole full size ZP with any confidence. We have flown 4 or 5 zero pressure balloons of our design, and what we've learned is that they are a darn complicated thing to get right, at least at the very small scale.

We designed the zero pressure envelope to precisely lift ONLY the weight of the alcohol ballast we had aboard, and level off at 18,000 ft with it. The latex balloon, which we felt would give a pretty constant lift at most altitudes we'd be at, would provide lift equal to the remaining payload weight. This allowed us to fly a much smaller, lighter ZP envelope, and use less helium. We don't plan to use this for real long duration missions, it was just a quick hack.

We had access to the beautiful modern airplane hangar at our local airport FBO, KDKX, which allowed us to measure lift to the tenth of the ounce on each balloon. The evening was dead calm and clear, some of the best weather for balloons I've ever launched in. The ascent rate was a stately 200-300 fpm, and the balloon just seemed to hang low in the city lights for a long time after we let go. A departing business jet pilot was with us at launch, and mused that he hoped he didn't hit it on departure.

The balloon envelope calculations were off by about a factor of 2, and instead of 18,000 ft, we ended up at 9000 ft, but that was OK, as we had foreseen this possibility and set our ballast trigger altitude to 8000ft. Any time the balloon dropped back down below 8000 ft, it would squirt a l little ballast out every so often.

We wanted to test an HF command uplink system, using a very slow speed, modified ascii (around 1 bps), being detected by a custom designed receiver built by Carl Lyster, WA4ADG and software by Mike Coffey, KJ4Z. This system worked quite nicely, it was able to decode 25% of the 50 commands sent to it until it passed over the HF radio horizon, somewhere in virginia. The commands did nothing, they were

just copied into the telemetry string for our viewing.

The internal temperature was quite nice at such a low altitude, and we conveniently stayed in the middle of nowhere for the entire flight, so there was little risk to air traffic.

The ballast was utilized many times as the balloon oscillated between 7000 and 10000 ft, the ZP balloon didn't seem to equalize very well, and would enter a steep descent after each peak motion. The flight ended about 17 hours in on one of the regular oscillations, the ballast had simply all been dumped. It landed in a rural valley in West Virginia, and we have no active recovery plans for it. Return info was provided on the package. One curious note - this payload and ZP envelope flew the weekend prior, and landed just 50 yards from a major interstate highway (I-40, near Asheville, NC). The folks who discovered the fully inflated latex and ZP balloon quickly called us, and we had the payload in hand by midweek and had retooled the software by the weekend in time for this great 17 hour flight.

Next flight... more ballast, with a better balloon made by Mark Caviezel.

73,
Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3839. Re: [GPSL] FDSL - Field Day Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 14:28:52 UTC
From: PAUL VERHAGE
Topic: 3837 Message: 3839
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3840. Re: [GPSL] FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 15:36:46 UTC
From: Mike Manes
Topic: 3836 Message: 3840

Hi Greg et al,

I agree that there's not much incentive for traditional FD teams to spend any of their 24 hours working zero-point QSOs, since balloons are repeaters. However, so are satellites, and ham satellite QSOs not only count but also generate bonus points! So if we could persuade the League to grant ARHAB the same consideration as AMSAT, well, that's a whole 'nother story. There's also merit in the "non-traditional" scheme, but I think the intent there was to demo "weird bands" like microwaves and light, e.g.

There's still the issue of shanghaiing a minimum launch and recovery team from the traditional FD groups.

73 de Mike W5VSI

Greg Williams wrote:
> Wow! I didn't think my thought would BALLOON into this!! HAH! I KILL
> ME!!!!!
>
> As for doing a super-launch on Field Day, I'm kinda torn. There's pros
> and cons about it. I'd like to have everyone do an ARHAB "Field Day",
> but if it's during ARRL's Field Day, it might be 2nd banana to the
> normal ops. I'd prefer a weekend we can toot our own horn without
> another event being in competition for the spotlight.
>
> Pros: It generates interest in ARHAB and may spur some new groups to
> form, and old groups to come back in.
> It gets interest generated from the general public and schools (where
> applicable)
> FD is the one weekend where amateur radio gets the most media (normally
> local news media) exposure.
> It's an opportunity to get a possible record number of balloons in the air.
>
>
> Cons: Some groups may already be involved with the local FD clubs or
> groups and will not have time and/or resources.
> There's no classification for ARHAB ops (that I'm aware of).
> All the media attention will be focused on Field Day itself, and the
> ARHAB might get a footnote or a paragraph or two. Or nothing.
>
> Perhaps if there's enough interest, we could petition the ARRL to have
> ARHAB included as its own FD category, or provisioned as a satellite
> QSO-type entry, but it looks to be eligible for 100 points as a
> "Non-traditional mode demonstration" already, depending on what's in the
> payload.

> More food for thought.
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3841. Re: [GPSL] FDSL - Field Day Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 16:08:45 UTC
From: Mike Manes
Topic: 3837 Message: 3841

EOSS is an ARRL Affiliated Club, and we can't even get a balloon-related article published in QST.

I'm also somewhat active in ham microwaves, and have seen how tough it is to tweak the rules of the "10 GHz and Up" contest to benefit those who work the rarer bands, like 47 and 76 GHz. It took years before that contest even RECOGNIZED 24 GHz!

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Who is a member of ARRL? Could someone like that talk to ARRL about
> balloon QSO?
>
> Paul
>
> >>> <wb8elk@...> 11/6/2007 12:07 AM >>>
> Hi Greg,
>
> When I've done Field Day balloons in the past, I find it's a great way
> to demonstrate a flight to the whole club and all the many ham-curious
> folks who come over to see what's going on....the Huntsville club sets
> up next to Space Camp and the Space and Rocket Museum, so they get a lot
> of visitors.
>
> Even though there are no points for the balloon contacts, it sure is
> worth it to get folks interested.....and yes, we have gotten media
> attention as a result. Perhaps the League might consider doing a special
> mode credit for a balloon contact though...particularly if we can
> organize enough of a group Field Day effort to cover a good part of the
> US....something to ponder.
>
> - Bill WB8ELK
>
>
>
>
> ---
> See what's new at AOL.com
> <http://www.aol.com/?NCID=AOLCMP00300000001170> and Make AOL Your
> Homepage <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3842. QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 17:51:31 UTC
From: Hank
Topic: 3837 Message: 3842

> EOSS is an ARRL Affiliated Club, and we can't even get a
> balloon-related article published in QST.

Mike,

I can believe that. How long ago was that attempt made?

This is an old refrain, but QST does seem to be continuing to very gradually slide towards more of a breezy, mass market gear advertising and simple gear use and review article oriented magazine, particularly in the last 3 or 4 years.

Much, but not all build-it content seems to be funneled to QEX.

Was QEX mentioned (by QST editors) to EOSS as a place where your balloon article might find a home? Or was it a general interest type of balloon article?

Hank

3843. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 18:50:15 UTC
From: Joe Lynch
Topic: 3837 Message: 3843

Dear Colleagues,

With our addition of Bill Brown, WB8ELK, as a columnist in the Spring 2007 issue of CQ VHF magazine we have made ballooning a regular feature. Additionally, via my monthly VHF column in CQ magazine I promote ballooning nearly every month.

Regarding EOSS, I am looking for an article about EOSS that would also mention Chris Kohler's training work. Chris' work has been responsible for dozens of new hams over the years that he has done his training.

In short, I would very much like to showcase EOSS and what is happening in that part of the world of ballooning and balloon sats via my column in CQ magazine and in a future issue of CQ VHF magazine.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3844. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 18:56:17 UTC
From: PAUL VERHAGE
Topic: 3837 Message: 3844
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3845. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 19:16:39 UTC
From: Joe Lynch
Topic: 3837 Message: 3845

Hi Paul, et al,

Yes, I want articles on ballooning that I can publish regularly in CQ VHF. The Spring and Summer 2007 issues each contain feature articles that included ballooning. Via Bill's column we will have regular coverage of ballooning events. However, I would like to also cover ongoing programs (such as EOSS) via feature articles as a way of inspiring others to start similar programs in their location.

From my perspective as an editor of a magazine that covers amateur radio activities, I see two emerging stories in amateur radio: education and emergency communications. Ballooning relates to both of these quite nicely.

In other words, please send me your stories and will do everything that I can to give them a venue.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3846. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 19:24:12 UTC
From: ATVQ
Topic: 3837 Message: 3846

Hi Joe,

And, most of you know that, Paul Verhage writes one or two articles in EVERY issue of Amateur Television Quarterly. So, there are some of the better publications that enjoy ballooning endeavors!

73,

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: Joe Lynch
To: GPSL@yahoogroups.com
Sent: Tuesday, November 06, 2007 12:50 PM
Subject: Re: [GPSL] QST

Dear Colleagues,

With our addition of Bill Brown, WB8ELK, as a columnist in the Spring 2007 issue of CQ VHF magazine we have made ballooning a regular feature. Additionally, via my monthly VHF column in CQ magazine I promote ballooning nearly every month.

Regarding EOSS, I am looking for an article about EOSS that would also mention Chris Kohler's training work. Chris' work has been responsible for dozens of new hams over the years that he has done his training.

In short, I would very much like to showcase EOSS and what is happening in that part of the world of ballooning and balloon sats via my column in CQ magazine and in a future issue of CQ VHF magazine.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3847. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 19:28:28 UTC
From: Wayne Helms
Topic: 3837 Message: 3847

I live in small town arkansas I would like to get cq vhf but want find it here on a shelf.....

wayne
----- Original Message -----
From: Joe Lynch
To: GPSL@yahoogroups.com
Sent: Tuesday, November 06, 2007 1:16 PM
Subject: Re: [GPSL] QST

Hi Paul, et al,

Yes, I want articles on ballooning that I can publish regularly in CQ VHF. The Spring and Summer 2007 issues each contain feature articles that included ballooning. Via Bill's column we will have regular coverage of ballooning events. However, I would like to also cover ongoing programs (such as EOSS) via feature articles as a way of inspiring others to start similar programs in their location.

From my perspective as an editor of a magazine that covers amateur radio activities, I see two emerging stories in amateur radio: education and emergency communications. Ballooning relates to both of these quite nicely.

In other words, please send me your stories and will do everything that I can to give them a venue.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3848. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 20:15:27 UTC
From: Joe Lynch
Topic: 3837 Message: 3848

Hi Gene,

Publications such as yours and mine provide the necessary venues when there is nowhere else to go. Thank you for being there. Please keep up your good work.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3849. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 20:16:56 UTC
From: Mike Manes
Topic: 3837 Message: 3849

Hi Hank,

That must have been like 5 years ago or so. And it was written
in a very non-techie style - emphasizing the student involvement
and the thrill of sending student experiments and a ham station
to the edge of space. It certainly wasn't deep enough to qualify
for QEX, even before it merged with Comm Quarterly.

We'd probably get more drivel submitted if we could just get our
Publicity Chair position filled. That opening is now etched at the
top of every EOSS meeting agenda - folks complain about that, and I
tell 'em it'll go away when the position is filled. As it is, the
10% who do 90% are gill-deep in flight-to-flight crank-turning. E.g.,
at our next meeting, we'll be recapping four flights in just the past
month.

73 de Mike W5VSI

Hank wrote:
>> EOSS is an ARRL Affiliated Club, and we can't even get a
>> balloon-related article published in QST.
>
> Mike,
>
> I can believe that. How long ago was that attempt made?
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> This is an old refrain, but QST does seem to be continuing to
> very gradually slide towards more of a breezy, mass market
> gear advertising and simple gear use and review article
> oriented magazine, particularly in the last 3 or 4 years.
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> Much, but not all build-it content seems to be funneled to QEX.
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> Was QEX mentioned (by QST editors) to EOSS as a place where
> your balloon article might find a home? Or was it a general
> interest type of balloon article?
>
> Hank
>
>
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>
> Yahoo! Groups Links
>
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>

>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3850. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 20:18:09 UTC
From: Joe Lynch
Topic: 3837 Message: 3850

Hi Wayne,

Please send me your snail mail address and I will arrange for you to receive a sample copy of CQ VHF magazine.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3851. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 20:27:13 UTC
From: Wayne Helms
Topic: 3837 Message: 3851

Wayne Helms
9586 Jennifer Ln.
Harrisburg, Ar 72432

thx
73's
kc5wxc
----- Original Message -----
From: Joe Lynch
To: GPSL@yahoogroups.com
Sent: Tuesday, November 06, 2007 2:18 PM
Subject: Re: [GPSL] QST

Hi Wayne,

Please send me your snail mail address and I will arrange for you to receive a sample copy of CQ VHF magazine.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3852. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 20:49:30 UTC
From: Mike Manes
Topic: 3837 Message: 3852

Hi Wayne,

I'd bet a dollar that Joe would be delighted to mail you every brand
new issue of CQ VHF at the newsstand price and save you a trip to
town, to boot.

Or maybe you could talk your newsstand owner or librarian into getting
it in?

73 de Mike W5VSI

Wayne Helms wrote:
> *I live in small town arkansas I would like to get cq vhf but want find
> it here on a shelf..... *
> **
> *wayne*
>
> ----- Original Message -----
> *From:* Joe Lynch <mailto:n6cl@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Tuesday, November 06, 2007 1:16 PM
> *Subject:* Re: [GPSL] QST
>
> Hi Paul, et al,
>
> Yes, I want articles on ballooning that I can publish regularly in
> CQ VHF. The Spring and Summer 2007 issues each contain feature
> articles that included ballooning. Via Bill's column we will have
> regular coverage of ballooning events. However, I would like to
> also cover ongoing programs (such as EOSS) via feature articles as a
> way of inspiring others to start similar programs in their location.
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> From my perspective as an editor of a magazine that covers amateur
> radio activities, I see two emerging stories in amateur radio:
> education and emergency communications. Ballooning relates to both
> of these quite nicely.
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> In other words, please send me your stories and will do everything
> that I can to give them a venue.
>
> 73,
>
>
> Joe Lynch, N6CL
> Editor, CQ VHF magazine
> VHF Editor, CQ magazine

>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3853. Re: [GPSL] QST

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 21:36:07 UTC
From: mconner1@gmail.com
Topic: 3837 Message: 3853
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3854. Re: [GPSL] FDSL - Field Day Balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 21:41:08 UTC
From: Joe
Topic: 3837 Message: 3854

Bill!

NSS is in!

Letys see who all we can get into this, gotta link them together all
over the place he he he,,

Joe

wb8elk@... wrote:

> Hi Greg,
>
> When I've done Field Day balloons in the past, I find it's a great
> way to demonstrate a flight to the whole club and all the many
> ham-curious folks who come over to see what's going on....the
> Huntsville club sets up next to Space Camp and the Space and Rocket
> Museum, so they get a lot of visitors.
>
> Even though there are no points for the balloon contacts, it sure is
> worth it to get folks interested.....and yes, we have gotten media
> attention as a result. Perhaps the League might consider doing a
> special mode credit for a balloon contact though...particularly if we
> can organize enough of a group Field Day effort to cover a good part
> of the US....something to ponder.
>
> - Bill WB8ELK
>
>
>
>
> ---
> See what's new at AOL.com
> <http://www.aol.com?NCID=AOLCMP00300000001170> and Make AOL Your
> Homepage <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.
>

3855. Re: [GPSL] FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 21:46:28 UTC
From: Joe
Topic: 3836 Message: 3855

I think it's awesome we gotta get the arrl to say Ya

Mike Manes wrote:

>Hi Greg et al,
>
>I agree that there's not much incentive for traditional FD teams to
>spend any of their 24 hours working zero-point QSOs, since balloons are
>repeaters. However, so are satellites, and ham satellite QSOs not only
>count but also generate bonus points! So if we could persuade the
>League to grant ARHAB the same consideration as AMSAT, well, that's
>a whole 'nother story. There's also merit in the "non-traditional"
>scheme, but I think the intent there was to demo "weird bands" like
>microwaves and light, e.g.
>
>There's still the issue of shanghaiing a minimum launch and recovery
>team from the traditional FD groups.
>
>73 de Mike W5VSI
>
>Greg Williams wrote:
>
>
>>Wow! I didn't think my thought would BALLOON into this!! HAH! I KILL
>>ME!!!!!
>>
>>As for doing a super-launch on Field Day, I'm kinda torn. There's pros
>>and cons about it. I'd like to have everyone do an ARHAB "Field Day",
>>but if it's during ARRL's Field Day, it might be 2nd banana to the
>>normal ops. I'd prefer a weekend we can toot our own horn without
>>another event being in competition for the spotlight.
>>
>>Pros: It generates interest in ARHAB and may spur some new groups to
>>form, and old groups to come back in.
>>It gets interest generated from the general public and schools (where
>>applicable)
>>FD is the one weekend where amateur radio gets the most media (normally
>>local news media) exposure.
>>It's an opportunity to get a possible record number of balloons in the air.
>>
>>
>>Cons: Some groups may already be involved with the local FD clubs or
>>groups and will not have time and/or resources.
>>There's no classification for ARHAB ops (that I'm aware of).
>>All the media attention will be focused on Field Day itself, and the

>>ARHAB might get a footnote or a paragraph or two. Or nothing.
>>
>>Perhaps if there's enough interest, we could petition the ARRL to have
>>ARHAB included as its own FD category, or provisioned as a satellite
>>QSO-type entry, but it looks to be eligible for 100 points as a
>>"Non-traditional mode demonstration" already, depending on what's in the
>>payload.
>>More food for thought.
>>
>>
>>
>
>
>

3856. Re: [GPSL] FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 21:49:25 UTC
From: PAUL VERHAGE
Topic: 3836 Message: 3856
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3857. Re: [GPSL] FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-06 20:07:08 UTC
From: Ryan Butler
Topic: 3836 Message: 3857

It's important to note that you get a 100 point sat bonus for working the first satellite contact, you also get 1 point for your first FM satellite contact (101 points if your first sat contact on field day is a FM sat) and you receive 0 points thereafter for additional FM sat contacts.

Analog transponder contacts count regular points regardless of how many you make.

So unless the balloon is flying a linear transponder, it's only going to be worth one contact and may already qualify under the non-traditional/experimental category.

Ryan

On Tue, 2007-11-06 at 08:36 -0700, Mike Manes wrote:
> Hi Greg et al,
>
> I agree that there's not much incentive for traditional FD teams to
> spend any of their 24 hours working zero-point QSOs, since balloons
> are
> repeaters. However, so are satellites, and ham satellite QSOs not only
> count but also generate bonus points! So if we could persuade the
> League to grant ARHAB the same consideration as AMSAT, well, that's
> a whole 'nother story. There's also merit in the "non-traditional"
> scheme, but I think the intent there was to demo "weird bands" like
> microwaves and light, e.g.
>
> There's still the issue of shanghaiing a minimum launch and recovery
> team from the traditional FD groups.
>
> 73 de Mike W5VSI
>
> Greg Williams wrote:
> > Wow! I didn't think my thought would BALLOON into this!! HAH! I
> KILL
> > ME!!!!!
> >
> > As for doing a super-launch on Field Day, I'm kinda torn. There's
> pros
> > and cons about it. I'd like to have everyone do an ARHAB "Field
> Day",
> > but if it's during ARRL's Field Day, it might be 2nd banana to the
> > normal ops. I'd prefer a weekend we can toot our own horn without
> > another event being in competition for the spotlight.
> >

> > Pros: It generates interest in ARHAB and may spur some new groups
> to
> > form, and old groups to come back in.
> > It gets interest generated from the general public and schools
> (where
> > applicable)
> > FD is the one weekend where amateur radio gets the most media
> (normally
> > local news media) exposure.
> > It's an opportunity to get a possible record number of balloons in
> the air.
> >
> >
> > Cons: Some groups may already be involved with the local FD clubs
> or
> > groups and will not have time and/or resources.
> > There's no classification for ARHAB ops (that I'm aware of).
> > All the media attention will be focused on Field Day itself, and
> the
> > ARHAB might get a footnote or a paragraph or two. Or nothing.
> >
> > Perhaps if there's enough interest, we could petition the ARRL to
> have
> > ARHAB included as its own FD category, or provisioned as a
> satellite
> > QSO-type entry, but it looks to be eligible for 100 points as a
> > "Non-traditional mode demonstration" already, depending on what's in
> the
> > payload.
> > More food for thought.
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>
>

3858. QSL cards hhhmmm if each group did a specail issue for FDSL.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 03:07:12 UTC
From: lt
Topic: 3858 Message: 3858

Mike goood point on the contestors >thats why I set it up with my club that we will do a none contesting site for anyone in Maine that wants to do a noncontesting FD. So we will hold one at my Farm feild with the specail 80 /160 wire antenna in the air and then also the prelaunch and lift off for the EOSRED-FD-2007 launch. But yet I do have a beutiful farm feild with 8.8 acres outlined with 75/90 foot trees oaks and lodge pole pines and 8.5 miles from the Ocean so its going to be a fun one from here.But we might change the name to YANKEE-FD- Launch to go with the club that day.

Bill you drew some good attention on a good idea.

We ready on this end . The word is gone out to the launch team in maine already for us.

3859. Yes its sad that ARRL(QST) does give more expose Articles about HAMMING and balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 14:35:18 UTC
From: L T
Topic: 3859 Message: 3859

But I applaud CQ-VHF and CQ magazine and I promote there magazine to all new and young Hams all the time I even hand them out to new Hams you'll be surprize how many dont know about CQ and CQ VHF and I swear buy there magazine every month I look forward to there articles. And there contribution to Amatuer radio..

Yes 10 gig has not been promoted much before its sad there slow on reconizeing other adventures in amatuer radio. Im doing my first 10gig repeater work in december with tethering balloons. AAHHH yes the alignment phase of it. But it will be interesting.

LEE- W1LWT
EOSRED Project Manager

PS: CQ-CQVHF great job keep it up!!

Bill You got the energy going about the FDSL .We will call ours in Maine that DAY ---MAINE-FD01

73's
Lee
W1LWT@...

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http://mail.yahoo.com

3860. Re: [GPSL] Yes its sad that ARRL(QST) does give more expose Articles about HAMMING and balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 15:18:59 UTC
From: Joe Lynch
Topic: 3859 Message: 3860

Hi Lee,

Thank you very much for your kind words concerning our work in CQ and CQ VHF magazines. I really appreciate your encouragement.

Concerning 10 GHz, I will be looking for an article from you about your efforts and successes.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3861. Articles for CQ VHF and FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 16:14:30 UTC
From: PAUL VERHAGE
Topic: 3859 Message: 3861

I would like to see someone write about ARHAB for CQ VHF on a regular basis. It would be another way to spread the word about our hobby. I'm currently writing enough that I can't take that on, so could someone else begin writing about their program and how they launch, chase, and recover payloads? It's easier to write these articles when you add photos, too.

So even if we can't get ARRL support, are still willing to schedule a FDSL in 2008? If so, I'd like to start writing about that now.

Paul

3862. Re: [GPSL] Articles for CQ VHF and FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 16:19:03 UTC
From: W5BL@sbcglobal.net
Topic: 3859 Message: 3862

ARBONET is in for a FDSL.
Sent via BlackBerry by AT&T

-----Original Message-----
From: "PAUL VERHAGE" <paul.verhage@boiseschools.org>

Date: Wed, 07 Nov 2007 09:14:30
To:<GPSL@yahoogroups.com>
Subject: [GPSL] Articles for CQ VHF and FDSL

I would like to see someone write about ARHAB for CQ VHF on a regular basis. It would be another way to spread the word about our hobby. I'm currently writing enough that I can't take that on, so could someone else begin writing about their program and how they launch, chase, and recover payloads? It's easier to write these articles when you add photos, too.

So even if we can't get ARRL support, are still willing to schedule a FDSL in 2008? If so, I'd like to start writing about that now.

Paul

3863. 2008 FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 16:48:18 UTC
From: BASE
Topic: 3859 Message: 3863

As a non-HAMmer,I assume that we're talking about a launch on 28 June 2008. Based on my experience with the recent HALO event, I encourage us to use UTC time. Although early morning launches are more wind favorable, I'm willing to wait for the sun to rise out west and suggest that we consider a launchtime of 1500 or 1600 UTC.

Regardless of the time, BASE (DePauw) will gladly participate, and I anticipate that we will be HAM friendly and individually licensed by that date.

Howard

_____
Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3864. Re: [GPSL] Articles for CQ VHF and FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 17:39:57 UTC
From: Joe Lynch
Topic: 3859 Message: 3864

Dear Paul, et al,

Regarding writing about ARHAB in CQ VHF magazine on a regular basis, Bill Brown, WB8ELK, is our columnist. If you have something that you want to report to him, then please email him at wb8elk@.... If you have a feature article to submit, then please email me directly at n6cl@....

Thanks es 73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3865. Re: [GPSL] Articles for CQ VHF and FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 18:51:55 UTC
From: PAUL VERHAGE
Topic: 3859 Message: 3865
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3866. Re: [GPSL] Articles for CQ VHF and FDSL

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-07 21:11:05 UTC
From: Joe
Topic: 3859 Message: 3866

I'll ask the rest of NSS but i bet they say you bet!1,, but we gotta
do something cool too, not just a bubnch of balloons,, but something
different.

Joe

W5BL@... wrote:

>ARBONET is in for a FDSL.
>Sent via BlackBerry by AT&T
>
>-----Original Message-----
>From: "PAUL VERHAGE" <paul.verhage@...>
>
>Date: Wed, 07 Nov 2007 09:14:30
>To:<GPSL@yahoogroups.com>
>Subject: [GPSL] Articles for CQ VHF and FDSL
>
>
>I would like to see someone write about ARHAB for CQ VHF on a regular basis. It would be another way to spread the word about our hobby. I'm currently writing enough that I can't take that on, so could someone else begin writing about their program and how they launch, chase, and recover payloads? It's easier to write these articles when you add photos, too.
>
>So even if we can't get ARRL support, are still willing to schedule a FDSL in 2008? If so, I'd like to start writing about that now.
>
>Paul
>
>
>Yahoo! Groups Links
>
>
>
>
>
>
>
>
>

3867. FDSL ideas

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-08 04:44:43 UTC
From: Greg Williams
Topic: 3867 Message: 3867

I sent this out once via webmail from work but I assume it didn't make it.

contests@... is the contact email for the FD stuff. Perhaps Bill or someone with the credentials and knowledge of ARHAB should send in an email inquiring about stipulations for ARHAB flights.

There are some things to consider about trying to get credits and bonus points for using balloons.

Since ARHAB is a unique mode, should it get its own subset of rules as do satellites? Since the balloon goes up, how would one affect the 300 meter site rule (rule 4.1)

Since the power levels of most payloads is under 5w, how would this affect that scoring?

Based on the rules for satellite and "non-traditional" modes (I have them at the bottom of the email) what I'm considering is first, 100 bonus points for the balloon as a non-traditional mode. Next would be another set of bonus points for the means of communication. And the next would be a QSO points tally depending on the means of communication.

Example #1, if a group sends up a balloon with ATV and APRS, they should get 100 points for using a balloon to lift the payload, 100 points for APRS, and 100 points for ATV.

Example #2, if a payload has cross-band repeat, then perhaps the originating station can get 100 points for the balloon, and since they'd be doing Net Control, 1 point per QSO (unlimited, since I would think it be discouraging to rack up 200 QSOs and only get points up to 100 of them) and stations making contact get 20 points per QSO, up to 100 points.

Example #3, if a payload has ATV or SSTV, then since it is a one-way transmission, have stations receiving the ATV signal show proof that they received the ATV image and get 20 points, up to 100 points total.

Example #4, if the APRS is digipeating, then let stations make no more than 5 QSOs on it for up to 100 points, 20 points per contact. The digipeater would obviously have to be off 144.390. If it's just a position reporting station, perhaps proof of reception for up to 5 of the balloons would be sufficient?

These are rough draft ideas, and I welcome all scrutiny and discussion. I say we come up with a unified proposal and then solicit the ARRL to amend FD to exempt balloon QSOs from the normal rules by whatever guidelines we can draw up as well-balanced as possible.

OR

If we choose to do our own weekend outside of Field Day, what weekend and types of activities, rules, etc?

Below are the rules from 2007 FD regarding satellite and "non-traditional" mode credits:

7.3.7. Satellite QSO: 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. "General Rules for All ARRL Contests" (Rule 3.7.2.), (the no-repeater QSO stipulation) is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band." You do not receive an additional bonus for contacting different satellites, though the additional QSOs may be counted for QSO credit unless prohibited under Rule 7.3.7.1. The QSO must be Earth-Satellite-Earth in nature. Available to Classes A, B, and F.

7.3.7.1 Stations are limited to one (1) completed QSO on any single channel FM satellite.

7.3.10. Non-Traditional Mode Demonstrations: A maximum of 300 bonus points (100 points for each demonstration up to three) for setting up a demonstration of a non-traditional mode of amateur radio communications. This includes modes such as APRS, ATV, and SSTV. Available to Classes A, B, and F.

7.3.10.1. This bonus is not available for demonstration of a mode for which regular QSO credit is available. PSK31 is not eligible as a demonstration bonus as it is now in wide-spread use and is eligible for regular QSO credit.

7.3.10.2. A complete portable packet system may be included as one of the demonstration modes. This system must include a temporary, portable node and must be completely separate from the existing packet infrastructure of your area. Simply setting up a packet station does not qualify as a demonstration mode.

7.3.10.3. Demonstration modes must use the amateur radio spectrum at the point of the demonstration.

7.3.10.4. Frequency bands, such as 10 GHz are bands, not modes of communications and do not qualify for the demonstration mode bonus.

7.3.10.5. Each demonstration mode must be different - that is, you can not claim the bonus three times for doing the same demonstration mode repeatedly.

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

3868. Re: [GPSL] FDSL ideas

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-08 14:41:12 UTC
From: PAUL VERHAGE
Topic: 3867 Message: 3868

I like the idea of giving the ARRL a suggested point system for balloon contacts during FD. However, a balloon is more difficult for hams in general to hit because it's up for a shorter period of time, isn't in a predictable position days in advance, and doesn't reach as high of an altitude.

Those "features" will make getting a balloon contact different than getting a satellite contact.

I don't have comments on the actual points, since I've not done FD before. So I'll leave that up to people with more experience.

I think either Bill or Ralph might make good people to contact ARRL about this proposal.

If the ARRL isn't interested in adding balloons to FD, then I'd still like to see us do a FDSL. It would give hams something else to contact and show to the public. Again, we could send up a bunch of QSL cards to mail to people making contact with our balloons.

Paul

>>> Greg Williams <k4hsm@...> 11/7/2007 9:44 PM >>>
I sent this out once via webmail from work but I assume it didn't make it.

contests@...g is the contact email for the FD stuff. Perhaps Bill
or someone with the credentials and knowledge of ARHAB should send in an
email inquiring about stipulations for ARHAB flights.

There are some things to consider about trying to get credits and bonus
points for using balloons.

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do satellites? Since the balloon goes up, how would one affect the 300
meter site rule (rule 4.1)

Since the power levels of most payloads is under 5w, how would this
affect that scoring?

Based on the rules for satellite and "non-traditional" modes (I have
them at the bottom of the email) what I'm considering is first, 100
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APRS, and 100 points for ATV.

Example #2, if a payload has cross-band repeat, then perhaps the
originating station can get 100 points for the balloon, and since they'd

be doing Net Control, 1 point per QSO (unlimited, since I would think it be discouraging to rack up 200 QSOs and only get points up to 100 of them) and stations making contact get 20 points per QSO, up to 100 points.

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These are rough draft ideas, and I welcome all scrutiny and discussion. I say we come up with a unified proposal and then solicit the ARRL to amend FD to exempt balloon QSOs from the normal rules by whatever guidelines we can draw up as well-balanced as possible.

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--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net (http://www.etskywarn.net/)
http://www.twiar.org (http://www.twiar.org/)
http://www.icebearnation.com (http://www.icebearnation.com/)

Yahoo! Groups Links

3869. Kaysam balloons for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-09 02:48:46 UTC
From: Zack Clobes
Topic: 3869 Message: 3869

I don't foresee Jon or myself flying this coming year, so we've decided to pass on our surplus balloons to someone before they get too old.

We have 3 Kaysam 1000g's that are still sealed, and 3 100g's that have been opened but still look fine. As I recall, one of the 100's was partially inflated as a demonstration at a hamfest. I believe that they were all purchased around 2005, but I wouldn't swear to it.

I've kind of lost track of pricing on these things, but I'm thinking $10 for the three 100's (+$4 S&H). For the 1000's, I'd like $40ea (+$5 S&H). If you want the whole batch, I'd guess $12 would about cover shipping.

If my prices are too high, make me a reasonable offer.

Zack Clobes, W0ZC
Project: Traveler

3870. FDSL 2008--- Have Fun

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-10 04:59:09 UTC
From: L T
Topic: 3870 Message: 3870

OK for get the rule makeing and decisions for that. FD should be Fun and many many and awhole Bunch of Hams like to do field day but get turn off because of rules and contesting.

Thats why we are wit our club in Maine the the YANKEE club is going to have a none contesting site. For the Real HAMs who are left out. to feel the real fun of radio and experimenting..

We will have a NON CONTESTING SITE
#1 GOAL: HAVE FUN
#2 SHOW many as we can of new and Old HAMS there is still fun FD with out all the rules.
#3 Set up any thing and transmitt and contacts and have fun
#4 TETHER several Balloons from the loaction with different things to try out for anyone and enjoy it.
-----40 m inverted VEE at 100 ft and then 200 ft compareing the contacts
-----75/80 m Antenna same idea
-------160 m 1/2 antenna or what ever depends on the wind that day and HAVE fun and compare usefulness of antennas at 100 foot and 200 feet and back to 50 ft.
--- cross band repeater try out.
-----ATV
------SSTV Repeater at different leights at 2m/6m
------ how to prep a balloon for launch safety wise and ideas to put on it from any one that shows up.
-----17/20 meter 1 full wave long wire
--- and small VHF and UHF ANteenas and beams and what ever in the Air haveinf fun and answering questions and facts on why how and how about's??
#5 BBQ and BS time and camp out and table talk.
#6 show and tell different equipment and brag time
#7 HAVE FUN
#8 Bring your instrument for the ones who plays something and JAM /JAM
#9 table with literture.
#10 tables with trades
#11 FOOD and more food and potlucks
#12 Family time and have fun
#13 Make it a real fun FD
#14 BALLOON LAUNCH

HHHMMM is there more???? OOOHH YES everything and anything for all HAMS who wants to belong to FD rememberance time..

RULEs only the FCC RULES and HAVE fun with PLAYING radio.. Thats a real FD

I CANT WAIT ....FDSL2008 from MAINE we going to have the best fun day yet..

73's
Lee
W1LWT@...

Do You Yahoo!?
Tired of spam? Yahoo! Mail has the best spam protection around
http://mail.yahoo.com

3871. Re: [GPSL] Digest Number 1020

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-10 19:31:05 UTC
From: K. Mark Caviezel
Topic: 3871 Message: 3871

Thats why we are wit our club in Maine the the
YANKEE club is going to have a non contesting site.
For the Real HAMs who are left out. to feel the real
fun of radio and experimenting..
>>>>>> Lee: Thanks for sharing your Field Day 'road
map'. We may emulate you here.

- Mark NG0X, Norman, Oklahoma

3872. Alternative APRS frequencies and ATV calling frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-10 20:33:39 UTC
From: wb8elk@aol.com
Topic: 3872 Message: 3872

This is a note from Bob KA9UVY - very active ATV station in Illinois who also follows balloon flights with interest.

I agree with him about the secondary frequency.....only use 144.34 MHz for a balloon that also is carrying ATV onboard.....otherwise, try 144.36 or some other alternative since 144.34 is the national ATV calling frequency. I have used 144.34 MHz APRS on balloons carrying ATV in the past just for the reason to alert ATV folks that a balloon is in the air. However, if no ATV, then it can tromp on the calling frequency, particularly since alternative APRS channel activity is usually a much higher repetition rate data than on the 144.39 frequency.

The most active ATV area for conflict would be the Midwestern States. For those with balloon footprints that don't cover the Midwest, check to see if there is much ATV activity in your area (out to 400 miles from you) before flying on 144.34....I know some might still be using PocketTrackers which are fixed with either 144.39 or 144.34 only....but the newer APRS units are synthesized so this should help with the problem.

A good source of ATV activity and reports....you will find ATV balloon reports here as well: _http://www.dxworld.com/atvlog.html_ (http://www.dxworld.com/atvlog.html)

A number of ATV hams also have a Camstreams link going that allows you to watch what an ATV station via the Internet.....here's KA9UVY's camstreams link:....he left it running so anyone could see the ATV balloon via his ATV receiver in Illinois:

http://ka9uvy.camstreams.com/ (http://ka9uvy.camstreams.com/)

- Bill WB8ELK

Here's what Bob KA9UVY wrote:
==========

James, I read your comments about using wide1-1 on balloon payloads and it did seem to make sense.
Being an occasional user of APRS I admit that I have never fully understood the different paths etc.involved with the network and I am sure that many of us do not.
I do however have an issue with the use of 144.340 as an alternate APRS frequency. It seems that many are not aware of the fact that 144.340 is the National ATV calling and talkback channel.
Being a serious ATV enthusiast prompts me to write this note to make you aware of that fact. It is somewhat frustrating when you are trying to communicate with phone while the constant packets come blasting in from 100's of miles away.

If the payload has ATV on board I don't have a problem with it. In fact
it alerts many less informed operators to start looking for video from the
skies but if your not flying ATV please find an alternate frequency other than
144.340.
144.340 has been used for decades as the primary ATV talkback channel and
if possible we would like to keep it clear for ATV use.

Just my 2 cents
73, Bob
KA9UVY-TV
Amateur Television Station
QRV on 70cm,33cm,23cm
Celebrating 13 years on ATV 1994-2007

********** See what's new at http://www.aol.com

3873. Re: [Balloon_Sked] Alternative APRS frequencies and ATV calling frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-10 20:47:26 UTC
From: Mark Conner
Topic: 3872 Message: 3873

Thanks Bob and Bill for your comments. I was aware that 144.34 MHz
was used for ATV calling freq, but not how much it actually was being
used (or how much balloon traffic was interfering).

With the proliferation of balloon groups around the US, it's probably
time we found our own APRS alternate freq other than 144.34 MHz. We
have used 144.36 MHz with no known issues. Is 144.42 MHz otherwise
occupied? That would be a nice third freq for events like GPSL
(144.39 MHz +/- 30 kHz.

We should start promoting this soon, so other equipment manufacturers
don't end up locking us into the 144.34/144.39 paradigm.

I will look at moving NSTAR off 144.34 after tomorrow's flight.
Should not be a major issue since all our payload radios are
synthesized.

73 de Mark N9XTN
www.nstar.org

On Nov 10, 2007 2:33 PM, <wb8elk@...> wrote:
>
> This is a note from Bob KA9UVY - very active ATV station in Illinois who
> also follows balloon flights with interest.
>
> I agree with him about the secondary frequency.....only use 144.34 MHz for a
> balloon that also is carrying ATV onboard.....otherwise, try 144.36 or some
> other alternative since 144.34 is the national ATV calling frequency. I have
> used 144.34 MHz APRS on balloons carrying ATV in the past just for the
> reason to alert ATV folks that a balloon is in the air. However, if no ATV,
> then it can tromp on the calling frequency, particularly since alternative
> APRS channel activity is usually a much higher repetition rate data than on
> the 144.39 frequency.
>
> The most active ATV area for conflict would be the Midwestern States. For
> those with balloon footprints that don't cover the Midwest, check to see if
> there is much ATV activity in your area (out to 400 miles from you) before
> flying on 144.34....I know some might still be using PocketTrackers which
> are fixed with either 144.39 or 144.34 only....but the newer APRS units are
> synthesized so this should help with the problem.
>
> A good source of ATV activity and reports....you will find ATV balloon
> reports here as well: http://www.dxworld.com/atvlog.html
>
> A number of ATV hams also have a Camstreams link going that allows you to

> watch what an ATV station via the Internet.....here's KA9UVY's camstreams
> link:....he left it running so anyone could see the ATV balloon via his ATV
> receiver in Illinois:
>
> http://ka9uvy.camstreams.com/
>
>
> - Bill WB8ELK
>
> Here's what Bob KA9UVY wrote:
> ==========
> James, I read your comments about using wide1-1 on balloon payloads and it
> did seem to make sense.
> Being an occasional user of APRS I admit that I have never fully
> understood the different paths etc.involved with the network and I am sure
> that many of us do not.
> I do however have an issue with the use of 144.340 as an alternate APRS
> frequency. It seems that many are not aware of the fact that 144.340 is the
> National ATV calling and talkback channel.
> Being a serious ATV enthusiast prompts me to write this note to make you
> aware of that fact. It is somewhat frustrating when you are trying to
> communicate with phone while the constant packets come blasting in from
> 100's of miles away.
> If the payload has ATV on board I don't have a problem with it. In fact
> it alerts many less informed operators to start looking for video from the
> skies but if your not flying ATV please find an alternate frequency other
> than 144.340.
> 144.340 has been used for decades as the primary ATV talkback channel and
> if possible we would like to keep it clear for ATV use.
>
> Just my 2 cents
> 73, Bob
> KA9UVY-TV
> Amateur Television Station
> QRV on 70cm,33cm,23cm
> Celebrating 13 years on ATV 1994-2007
>
>
>
> _____
> See what's new at AOL.com and Make AOL Your Homepage.

3874. Re: [Ballooning] My location is not good for launching baloons.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-12 04:40:21 UTC
From: Mike Manes
Topic: 3874 Message: 3874

Hi Julius,

If you haven't perused the FAA's regs on unmanned balloons, etc, in
FAR-101, I urge you to do so to get a better understanding of how to
use the civil airspace. There's an annotated copy on unmanned balloons
downloadable from the "library" page on www.eoss.org, as well as a link
to the full FAA document. A current FAA sectional chart from your
nearest general aviation pilot shop is a very useful tool to learn
about airspace usage in your area.

73 de Mike W5VSI, EOSS

Julius wrote:
> I retired from China Lake a little over two years ago, I miss
> Ridgecrest, but I don't miss sand surfing. I use to work at ECHO Range.
> There is a dry lake bed near Victorville, and also a small airport and
> an aircraft boneyard, I forget the name of the lake bed, Myth Busters
> has done a few of their episodes from there. The only problem I can see
> is the aircraft flying in the area, I'm not sure that would be a problem.
>
> Julius
>
> */drpepper239 <drpepper5@...>/* wrote:
>
> Hi,
>
> I'm new to this group, and I think that I am not in a very good
> location for launching balloons. I live in Ridgecrest, California,
> bordered by China Lake, Naval Weapons Center, Death Valley and all the
> restricted airspaces in Nevada, which is all downwind from us.
> Frankly, I don't see any hope of launching balloons from here. Anyone
> on this list have any ideas for me for a launch site? I'm thinking
> maybe Koehn Lake, which is about twenty miles away?
>
> But almost anything launched from around here will go over or through
> restricted airspace. Koehn Lake is a spot where many prople fire
> rockets straight up, and recover them there, but of course they need
> approval from the FAA first.
>
> Thanx
> Ron C.
> WB6GKI
>
> ================================
>
>

> _____
> Do You Yahoo!?
> Tired of spam? Yahoo! Mail has the best spam protection around
> http://mail.yahoo.com

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3875. Re: [Balloon_Sked] Re: Alternative APRS frequencies and ATV calling frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-12 09:13:42 UTC
From: wb8elk@aol.com
Topic: 3875 Message: 3875

Hi Mike,

I've used 144.34 as a balloon frequency for APRS, simplex and crossband repeater as well as voice tracking beacons for some time specifically to alert the ATV crowd that an ATV balloon was in the air since the majority of my balloons in the past have carried ATV aloft....I would still suggest 144.34 APRS in the case where ATV is used on a balloon, but only at a once or twice a minute rate to allow the ATV ground stations to communicate with each other during the flight. The ATV groups have been very supportive of ATV balloon flights and I'm even going to do a simplex ATV repeater balloon in the near future.

The reason you haven't received a complaint in the Denver area, is that ATV activity there is limited mostly to ATV repeater groups who often use a local voice repeater for comms and your footprints don't quite reach the eastern KS or OK ATV activity areas. The highest 144.34 activity is for the ATV folks who enjoy long distance tropo enhancement contacts and there is a very active contingent who work each other on fastscan ATV in the 70cm band (439.25, 434.00, 426.25). Some of these contacts can stretch out to 600 miles or so.

Although there have been no complaints I'm aware of in the western Plains states or the west coast, there have however, been a number of complaints in the Midwest....Illinois, Indiana, Missouri and Michigan to be specific. The Midwestern and eastern Plains states hold the hotbed of ATV DX activity....the most active states are: IL, IN, MO, WI, MN, IA, OH, MI, PA, NY, OK, KY and KS...there are a few avid ATV DX folks in other states, including TN and AL (myself). Since I operate in both the ARHAB and ATV worlds, I'm just suggesting that folks be aware that there have been complaints and consider 144.36 or another freq as an alternative and I also want to head off future manufacture of fixed freq alternative on 144.34 such as was the case with the PocketTracker. If you're crystal controlled, then be aware that if your footprint covers the above states, you may generate some complaints. If I hear of any complaints of interference to the ATV calling freq in those cases, I'll forward them here.

I think the real problem is caused not by infrequent once or twice a minute transmissions....but since it's an open channel with no other APRS activity the trend has been to send APRS data out every few seconds by balloons on 144.34.....so my suggestion is that if you are flying in the Midwest with a crystal controlled or PocketTracker fixed freq APRS on 144.34, consider sending out packets no more than once or twice per minute to give the ATV guys a chance to use the frequency.

With the proliferation of newer balloon and college groups, my goal here is to set the example for an alternative APRS balloon frequency to something other than 144.34....(144.36 comes to mind as the most logical choice).

- Bill WB8ELK

********** See what's new at http://www.aol.com

3876. Re: [Balloon_Sked] Re: Alternative APRS frequencies and ATV calling frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-13 05:26:28 UTC
From: Mike Manes
Topic: 3875 Message: 3876

Hi Bill,

As I noted earlier, this is the first gripe about use of 144.34 I've heard in 16 years. And I'm gonna urge the group to move from 144.34 to 144.36, with fingers crossed that we don't hit some other groups "private allocation". Picking beacon freqs is a real risky game, since one rarely can determine what sort of QRM the command receiver will encounter or whose ox one might gore from 20 miles up. So any QSY is undertaken with eyes open re those risks.

If 144.36 turns out to be QRM-ville on CO, I'll assure you that we'll be back on .34 PDQ.

73 de Mike W5VSI

WB8ELK@... wrote:
> Hi Mike,
>
> I've used 144.34 as a balloon frequency for APRS, simplex and
> crossband repeater as well as voice tracking beacons for some time
> specifically to alert the ATV crowd that an ATV balloon was in the air
> since the majority of my balloons in the past have carried ATV
> aloft....I would still suggest 144.34 APRS in the case where ATV is used
> on a balloon, but only at a once or twice a minute rate to allow the ATV
> ground stations to communicate with each other during the flight. The
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> going to do a simplex ATV repeater balloon in the near future.
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> that ATV activity there is limited mostly to ATV repeater groups who
> often use a local voice repeater for comms and your footprints don't
> quite reach the eastern KS or OK ATV activity areas. The highest 144.34
> activity is for the ATV folks who enjoy long distance tropo enhancement
> contacts and there is a very active contingent who work each other on
> fastscan ATV in the 70cm band (439.25, 434.00, 426.25). Some of these
> contacts can stretch out to 600 miles or so.
>
> Although there have been no complaints I'm aware of in the western
> Plains states or the west coast, there have however, been a number of
> complaints in the Midwest....Illinois, Indiana, Missouri and Michigan to
> be specific. The Midwestern and eastern Plains states hold the hotbed of
> ATV DX activity....the most active states are: IL, IN, MO, WI, MN, IA,
> OH, MI, PA, NY, OK, KY and KS...there are a few avid ATV DX folks in
> other states, including TN and AL (myself). Since I operate in both the
> ARHAB and ATV worlds, I'm just suggesting that folks be aware that there

> have been complaints and consider 144.36 or another freq as
> an alternative and I also want to head off future manufacture of fixed
> freq alternative on 144.34 such as was the case with the
> PocketTracker. If you're crystal controlled, then be aware that if
> your footprint covers the above states, you may generate some
> complaints. If I hear of any complaints of interference to the ATV
> calling freq in those cases, I'll forward them here.
>
> I think the real problem is caused not by infrequent once or twice a
> minute transmissions....but since it's an open channel with no other
> APRS activity the trend has been to send APRS data out every few seconds
> by balloons on 144.34.....so my suggestion is that if you are flying in
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> freq APRS on 144.34, consider sending out packets no more than once or
> twice per minute to give the ATV guys a chance to use the frequency.
>
> With the proliferation of newer balloon and college groups, my goal
> here is to set the example for an alternative APRS balloon frequency to
> something other than 144.34....(144.36 comes to mind as the most logical
> choice).
>
> - Bill WB8ELK
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> ---
> See what's new at AOL.com <http://www.aol.com?NCID=AOLCMP00300000001170>
> and Make AOL Your Homepage
> <http://www.aol.com/mksplash.adp?NCID=AOLCMP00300000001169>.

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3877. Re: [Balloon_Sked] Re: Alternative APRS frequencies and ATV calling frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-13 07:06:49 UTC
From: wb8elk@aol.com
Topic: 3875 Message: 3877

Hi Mike,

I think a good compromise could be that rather than abandoning 144.34 for balloon use altogether, that when flying in a very active ATV region (the Midwest states mentioned in my last email), that the update rate be no more than twice per minute in order to allow ATV voice comms. In other regions of the country, I wouldn't be too concerned unless complaints are received. I'm pret ty tied into the ATV and SSTV community, so I can forward any complaints that I hear about. The majority of the ATV community is very balloon friendly and supportive....ATV Quarterly magazine even prints regular ARHAB stories in almost every issue (whether the balloon carried ATV or not). After all, it was the desire to increase my ATV range that prodded me to put up my first balloon 20 years ago.

I don't foresee any problem at the moment for EOSS or the western states even with higher rate APRS updates due to the sparse ATV activity in those regions. In the more populous areas of CA and AZ, they tend to use other 2m freqs for ATV voice comms. Rather, I'm suggesting we look for one more alternative APRS frequency that can supplement 144.34 and be a frequency where we can do rapid APRS updates with little or no interference to other hams regardless of the region....a frequency that can be recommended for newer groups and colleges that are coming onto the ballooning scene who might not be cognizant of ATV use on 144.34. I mention this since one college in MI sent out packets once per second on 144.34 in some past flights and this definitely generated some complaints and wiped out the channel for the flight duration...I seem to recall that they changed to 144.36 after that with no complaints. For those of you who also put Gateway stations on 144.34 for balloon flights, I would recommend that they be receive only.

The main thing that concerns me about 144.34 use for APRS is the possibility that the APRS community will start to consider that as an alternative channel for APRS and start putting digipeaters up there...which has actually happened in a few places....I would think this trend was driven by commercial APRS manufacturers such as the PocketTracker alternative 144.34 channel. This would not be a good thing for either ATV or Ballooning I would think and is really the thing that worries me the most. It's my hope that the newer APRS trackers with built-in RF modules will be synthesized (as they seem to be doing) to head off the possibility of commercial units driving 144.34 as the APRS alternative for the entire general ham population. I must say it's particularly annoying to try to make ATV DX contacts or to track a distant ARHAB balloon and have to listen to local APRS mobile and home stations popping up day and night on 144.34, which I have heard much more frequently here than I'd like from my mountaintop QTH.

We've used 144.36 in past GPSL events with no apparent complaints so that would seem to be a possible choice. I don't know just how much SSTV activity occurs on 144.36...I'll ask some of my SSTV friends about that. Both 144.36 and 144.42 are the most logical choices since they are evenly spaced from and close enough to 144.39 to make for an easy frequency shift when tuning between the APRS network and a clear channel.

- Bill WB8ELK

********** See what's new at http://www.aol.com

3878. Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-15 18:43:42 UTC
From: Ralph Wallio, W0RPK
Topic: 3878 Message: 3878

Flight has launched. -- W0RPK

On Nov 14, 2007 10:02 PM, Whit Landvater <whit@...> wrote:

> For all of you that are suffering from gas flight tracking
> withdrawals...
>
> My old buddy Troy Bradley from Albuquerque hopes to add yet another
> record to his collection by breaking the existing distance and
> duration record for AA-3 (400 to 600 m?) balloons. The launch will
> be taking place 11/14/07 (tonight) in Greeley, Colorado between
> 0400-0600z (2000-2200 MST). Lou Billones is calling the weather.
>
> The current duration record for AA-03 (Gas balloons: 400 to 600 m?)
> is 46 h 50 min 30 sec, and the current distance record is 1,971.81
> km, both set on 11/02/2005 by Troy Bradley on a flight from Amarillo,
> TX to Enon, PA (USA).
>
> For more information as it becomes available, or to track this
> flight, visit <http://www.skyspanadventures.com/Flight-Track.htm>.
>
> Other links of interest:
> Findu.com <http://www.findu.com/cgi-bin/near.cgi?call=KC5ORZ-7>
> Pacific Balloon (another upcoming record attempt): http://
> www.pacificballoon.com/
>
>
>
> --
> whit landvater
> gardnerville, nevada

3879. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-15 21:01:24 UTC
From: Joe
Topic: 3878 Message: 3879

Hi ralph,

what do you mean by "GAS" balloons?

Joe

Ralph Wallio, W0RPK wrote:

>Flight has launched. -- W0RPK
>
>
>On Nov 14, 2007 10:02 PM, Whit Landvater <whit@...> wrote:
>
>
>
>>For all of you that are suffering from gas flight tracking
>>withdrawals...
>>
>>My old buddy Troy Bradley from Albuquerque hopes to add yet another
>>record to his collection by breaking the existing distance and
>>duration record for AA-3 (400 to 600 m?) balloons. The launch will
>>be taking place 11/14/07 (tonight) in Greeley, Colorado between
>>0400-0600z (2000-2200 MST). Lou Billones is calling the weather.
>>
>>The current duration record for AA-03 (Gas balloons: 400 to 600 m?)
>>is 46 h 50 min 30 sec, and the current distance record is 1,971.81
>>km, both set on 11/02/2005 by Troy Bradley on a flight from Amarillo,
>>TX to Enon, PA (USA).
>>
>>For more information as it becomes available, or to track this
>>flight, visit <http://www.skyspanadventures.com/Flight-Track.htm>.
>>
>>Other links of interest:
>>Findu.com <http://www.findu.com/cgi-bin/near.cgi?call=KC5ORZ-7>
>>Pacific Balloon (another upcoming record attempt): http://
>>www.pacificballoon.com/
>>
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>>--
>>whit landvater
>>gardnerville, nevada
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>Yahoo! Groups Links
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3880. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-15 21:06:55 UTC
From: mconner1@gmail.com
Topic: 3878 Message: 3880
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3881. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-15 21:12:05 UTC
From: Wayne Helms
Topic: 3878 Message: 3881

is this balloon still flying ?
----- Original Message -----
From: mconner1@...
To: GPSL@yahoogroups.com
Sent: Thursday, November 15, 2007 3:06 PM
Subject: Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

In this case, hydrogen or helium-filled manned balloons (as opposed to hot-air or hybrid Rozier types).

73 de Mark N9XTN

----- Original Message -----
From: Joe <nss@...>
Date: Thursday, November 15, 2007 3:01 pm
Subject: Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard
To: GPSL@yahoogroups.com

> Hi ralph,
>
> what do you mean by "GAS" balloons?
>
> Joe

3882. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-15 21:17:15 UTC
From: Harry M
Topic: 3878 Message: 3882

No position updates since 17:49z

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

3883. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 01:06:16 UTC
From: Mike Manes
Topic: 3878 Message: 3883

What did I tell you guys about APRS digis out here in W. Boondock?
73 de Mike W5VSI

Harry M wrote:
>
> No position updates since 17:49z
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3884. gas balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 15:16:33 UTC
From: K. Mark Caviezel
Topic: 3884 Message: 3884

what do you mean by "GAS" balloons?

Joe

>>> hydrogen, helium, methane, ammonia, and town gas
have all been used. Neon, acetylene, and pure
nitrogen are theoretically possible, but no one is
clamoring to try those buoyant gasses anytime soon.
And there is a guy in England who advocates use of
pure steam.

- Mark Caviezel

3885. Re: [GPSL] gas balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 18:27:12 UTC
From: Pete Lilja
Topic: 3884 Message: 3885

And by "town gas," Mark, do you mean sewer gas?

Pete
KCØGPB

3886. Re: [GPSL] gas balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 18:41:58 UTC
From: bill notgatez
Topic: 3884 Message: 3886

http://en.wikipedia.org/wiki/Town_gas

http://en.wikipedia.org/wiki/Gas_balloon

--- Pete Lilja <plilja@...> wrote:

> And by "town gas," Mark, do you mean sewer gas?
>
> Pete
> KC?GPB

_____
Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

3887. Re: [Balloon_Sked] Cross-band repeater frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 21:29:11 UTC
From: Mike Manes
Topic: 3887 Message: 3887

Hi Adam,

Mr. Hendickson's interpretation may be obsolete. The 2007 version of
14 CFR Part 97 defines a repater as:

(39) Repeater. An amateur station that simultaneously retransmits the
transmission of another amateur station on a different channel or channels.

Note that this definition excludes simplex repeaters.

Here's the rub, though:

(f) No amateur station, except an auxiliary, repeater or space station, may
automatically retransmit the radio signals of other amateur stations.

So yeah, if a simplex "repeater" isn't a repeater by FCC definition, then
it must be an auxiliary station operating above 220 MHz.

But a 2m/70cm crossband repeater does conform to this rule:

(b) A repeater may receive and retransmit only on the 10 m and shorter
wavelength frequency bands except the 28.0-29.5 MHz, 50.0-51.0 MHz,
144.0-144.5 MHz, 145.5-146.0 MHz, 222.00-222.15 MHz, 431.0-433.0 MHz and
435.0-438.0 MHz segments.

Let's take a look at the "auxiliary station" question for simplex repeaters,
defined as:

(7) Auxiliary station. An amateur station, other than in a message forwarding
system, that is transmitting communications point-to-point within a system of
cooperating amateur stations.

So far, so good. How about 2m operation?

(b) An auxiliary station may transmit only on the 2 m and shorter wavelength
bands, except the 144.0-144.5 MHz, 145.8-146.0 MHz, 219-220 MHz, 222.00-222.15
MHz, 431-433 MHz, and 435-438 MHz segments.

Yes, so long as it abides those forbidden sub-bands.

I guess my point is that when all else fails, read the book - in this case,
Part 97 - rather than searching the web for a blog. Now, Part 97 doesn't
read like an Icom user manual, so if you're still scratching your head,
ask the ARRL. I just did, and clipped this from a .pdf of QST's "Washington
Mailbox". It seems that Mr. Hendrickson may have updated his view:

Q: Are the rules for simplex repeaters the same as duplex repeaters?
A: A “simplex repeater” is not a repeater according to the FCC. It does not
simultaneously retransmit the signals of another station and it might not

retransmit the signals on a different channel or channels, as specified in the FCC’s definition of a repeater.

Since it isn’t a repeater, such a device cannot be operated under automatic control. If a control operator is present and controlling the device, either by local or remote control, then it can be used, but it cannot be left unattended! On the other hand, it is not limited by the other repeater rules, such as specific repeater frequency limitations. Auxiliary stations must control the simplex repeater and control must be conducted on frequencies authorized for auxiliary operation (above 222.15 MHz, except 431 to 433 and 435 to 438 MHz).

Special thanks to Gary Hendrickson, W3DTN, chairman of the Mid-Atlantic Repeater Council’s Open Band Planning Committee, for his assistance with this column. As the TMARC coordinator for 25 years, Gary is a recognized expert in the field of repeater coordination and complex repeater operations.

So yeah, as with ANY ham station, there MUST be some means to allow the control operator to QRT the station in the event of interference. This is kind of a buggaboo for balloon-borne transmitters, since few can be shut down using auxiliary links above 220 MHz. My view is that the typical balloon flight last less time than it might take to identify, contact and deploy a control operator to take that action. And since balloon APRS beacons also serve a public safety function if the FAA is relying on them to clear airspace, then there are some ameliorating conditions.

73 de Mike W5VSI

Adam wrote:
> Mike,
>
> I have a crossband repeater that I'm building for a
> balloon, was just trying to figure out what
> frequencies to use. I was going to use a simplex
> frequency on each band as it seems like there are few
> ever in use around here, but I found this article
> stating that it was illegal:
>
> http://www.mrc.gen.mn.us/010902/rptaux.htm
>
> I'm sure I could get away with it for the short time
> of the flight, but I just wanted to make sure I
> wouldn't get myself into trouble.
>
> -Adam
> KD0BML
>
>
> --- Mike Manes <mrmanes@...> wrote:
>

>> Hi Adam,
>>
>> I think most of them use freqs in their respective
>> simplex subbands. E.g.
>> EOSS's crossband uses 445.975 up and 147.555 down.
>> But there are no
>> "standard" freq pairs used ARHAB-wide. Some groups
>> use simplex
>> repeaters, which are digital recorders that record
>> whatever is breaking
>> the squelch and then play it back on the same freq
>> when the squelch closes.
>>
>> 73 de Mike W5VSI, EOSS
>>
>> compwhiz80 wrote:
>>> Is there a typical set of frequencies available
>> for use on balloons for
>>> crossband repeaters? I've seen several different
>> frequencies used in
>>> different parts of the bandplan.
>>>
>>> -Adam
>>>
>>>
>>>
>>>
>>> Yahoo! Groups Links
>>>
>>> (Yahoo! ID required)
>>>
>> mailto:Balloon_Sked-fullfeatured@yahoogroups.com
>>>
>>>
>> --
>> Mike Manes mrmanes@... Tel:
>> 303-979-4899
>> "Things should be made as simple as possible, but
>> not more so."
>> A. Einstein
>>
>
>
>
> _____
> Never miss a thing. Make Yahoo your home page.
> http://www.yahoo.com/r/hs
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3888. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 23:23:25 UTC
From: Ryan Butler
Topic: 3878 Message: 3888

http://www.kcci.com/news/14616134/detail.html

It looks like the record is safe and Dr. Tom made it down safely in
Wisconsin, his friend was not so lucky :(

Ryan, KB0JQO

On Thu, 2007-11-15 at 18:06 -0700, Mike Manes wrote:
> What did I tell you guys about APRS digis out here in W. Boondock?
> 73 de Mike W5VSI
>
> Harry M wrote:
> >
> > No position updates since 17:49z
> >
> >
> > -----
> > Harry Mueller - KC5TRB - Tulsa
> > Oklahoma Research Balloons
> > Home Page - http://members.cox.net/hhm_74775/orb/
> > Discussion -
> http://groups.yahoo.com/group/oklahoma_research_balloons/join
> > -----
> >
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
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> A. Einstein
>
>
>
>

3889. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-16 23:25:49 UTC
From: Ryan Butler
Topic: 3878 Message: 3889

Obviously I typoed and it was Troy Bradley who set the record and landed
safely, and Dr. Tom who did not.

Ryan, KB0JQO

On Fri, 2007-11-16 at 17:23 -0600, Ryan Butler wrote:
> http://www.kcci.com/news/14616134/detail.html
>
> It looks like the record is safe and Dr. Tom made it down safely in
> Wisconsin, his friend was not so lucky :(
>
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>
>
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> >
> >

3890. Re: [Balloon_Sked] Cross-band repeater frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-17 01:56:26 UTC
From: Mike Manes
Topic: 3887 Message: 3890

Hi Adam,

In-band repeaters SHOULD be coordinated per your ARRL section Freq Coordinator, although it's not an FCC requirement. However, if your odd-ball in-band choice causes problems with other users, then the FCC might step in.

Now, there is no freq coord established for cross-band repeaters, so use of simplex freqs, within the aux freq limits noted earlier, should be OK. It would be real POOR form to use one of the freqs in use within 400 miles of your flight trajectory, however.

It may be a good idea to verify your choices are clear. It's been suggested that one could do a balloon survey of a candidate freq simply by flying a receiver and digital voice recorder.

73 de Mike W5VSI

Adam wrote:
> Thanks Mike,
>
> I read the rules and interpreted them one way, but
> then I see someone who is "an expert" saying another
> thing so maybe my interpretation wasn't right.
>
> What I was looking at was using a 'duplex' repeater on
> a simplex frequency in 2 different bands.
>
> The way I read (and was told by some) is that the
> input and output frequencies had to be within repeater
> in/outs (in my case 2m repeater input, 70cm repeater
> out) part of the bandplan.
>
> I guess after reading closer I could define it more as
> an "auxillary station" and use it that way. I do have
> DTMF Control setup so I can shut it down if something
> goes wacky with it.
>
> Thanks again,
> Adam
>
> --- Mike Manes <mrmanes@...> wrote:
>
>> Hi Adam,
>>
>> Mr. Hendickson's interpretation may be obsolete.

>> The 2007 version of
>> 14 CFR Part 97 defines a repater as:
>>
>> (39) Repeater. An amateur station that
>> simultaneously retransmits the
>> transmission of another amateur station on a
>> different channel or channels.
>>
>> Note that this definition excludes simplex
>> repeaters.
>>
>> Here's the rub, though:
>>
>> (f) No amateur station, except an auxiliary,
>> repeater or space station, may
>> automatically retransmit the radio signals of other
>> amateur stations.
>>
>> So yeah, if a simplex "repeater" isn't a repeater by
>> FCC definition, then
>> it must be an auxiliary station operating above 220
>> MHz.
>>
>> But a 2m/70cm crossband repeater does conform to
>> this rule:
>>
>> (b) A repeater may receive and retransmit only on
>> the 10 m and shorter
>> wavelength frequency bands except the 28.0-29.5 MHz,
>> 50.0-51.0 MHz,
>> 144.0-144.5 MHz, 145.5-146.0 MHz, 222.00-222.15 MHz,
>> 431.0-433.0 MHz and
>> 435.0-438.0 MHz segments.
>>
>> Let's take a look at the "auxiliary station"
>> question for simplex repeaters,
>> defined as:
>>
>> (7) Auxiliary station. An amateur station, other
>> than in a message forwarding
>> system, that is transmitting communications
>> point-to-point within a system of
>> cooperating amateur stations.
>>
>> So far, so good. How about 2m operation?
>>
>> (b) An auxiliary station may transmit only on the 2
>> m and shorter wavelength
>> bands, except the 144.0-144.5 MHz, 145.8-146.0 MHz,
>> 219-220 MHz, 222.00-222.15

>> MHz, 431-433 MHz, and 435-438 MHz segments.
>>
>> Yes, so long as it abides those forbidden sub-bands.
>>
>> I guess my point is that when all else fails, read
>> the book - in this case,
>> Part 97 - rather than searching the web for a blog.
>> Now, Part 97 doesn't
>> read like an Icom user manual, so if you're still
>> scratching your head,
>> ask the ARRL. I just did, and clipped this from a
>> .pdf of QST's "Washington
>> Mailbox". It seems that Mr. Hendrickson may have
>> updated his view:
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>> Q: Are the rules for simplex repeaters the same as
>> duplex repeaters?
>> A: A “simplex repeater” is not a repeater according
>> to the FCC. It does not
>> simultaneously retransmit the signals of another
>> station and it might not
>> retransmit the signals on a different channel or
>> channels, as specified in the
>> FCC’s definition of a repeater.
>>
>> Since it isn’t a repeater, such a device cannot be
>> operated under automatic
>> control. If a control operator is present and
>> controlling the device, either
>> by local or remote control, then it can be used, but
>> it cannot be left
>> unattended! On the other hand, it is not limited by
>> the other repeater
>> rules, such as specific repeater frequency
>> limitations. Auxiliary stations
>> must control the simplex repeater and control must
>> be conducted on frequencies
>> authorized for auxiliary operation (above 222.15
>> MHz, except 431 to 433 and
>> 435 to 438 MHz).
>>
>> Special thanks to Gary Hendrickson, W3DTN, chairman
>> of the Mid-Atlantic
>> Repeater Council’s Open Band Planning Committee, for
>> his assistance with this
>> column. As the TMARC coordinator for 25 years, Gary
>> is a recognized expert in
>> the field of repeater coordination and complex
>> repeater operations.
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>> So yeah, as with ANY ham station, there MUST be some
>> means to allow the
>> control operator to QRT the station in the event of
>> interference. This
>> is kind of a buggaboo for balloon-borne
>> transmitters, since few can be
>> shut down using auxiliary links above 220 MHz. My
>> view is that the
>> typical balloon flight last less time than it might
>> take to identify,
>> contact and deploy a control operator to take that
>> action. And since
>> balloon APRS beacons also serve a public safety
>> function if the FAA is
>> relying on them to clear airspace, then there are
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>> conditions.
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>> 73 de Mike W5VSI
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>> Adam wrote:
>>> Mike,
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>>> I have a crossband repeater that I'm building for
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>>> balloon, was just trying to figure out what
>>> frequencies to use. I was going to use a simplex
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>>> I'm sure I could get away with it for the short
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>>> of the flight, but I just wanted to make sure I
>>> wouldn't get myself into trouble.
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>>> -Adam
>>> KD0BML
>>>
>>>
>>> --- Mike Manes <mrmanes@gmail.com> wrote:
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>>>> Hi Adam,
>>>>
>>>> I think most of them use freqs in their
>> respective
>>>> simplex subbands. E.g.

>>>> EOSS's crossband uses 445.975 up and 147.555
>> down.
>>>> But there are no
>>>> "standard" freq pairs used ARHAB-wide. Some
>> groups
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>>>> repeaters, which are digital recorders that
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>>>>> -Adam
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> Yahoo! Groups Links
>>>>>
>>>>> (Yahoo! ID required)
>>>>>
>>>> mailto:Balloon_Sked-fullfeatured@yahoogroups.com
> === message truncated ===
>
>
>
> ---
> Never miss a thing. Make Yahoo your home page.
> http://www.yahoo.com/r/hs
>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3891. Re: [GPSL] Re: [Balloon_Sked] Cross-band repeater frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-17 03:01:33 UTC
From: Harry M
Topic: 3887 Message: 3891

One glitch that we ran into on ORB-7's EBBE flight was an unlisted UHF remote receiver (in the simplex part of the UHF band) for a 2m repeater. We had the 2m repeater keyed every time the x-band operated. I found out about it after the flight and contacted the repeater owner. There were no hard feelings. We listened to the UHF freq. for weeks to make sure there was little or no activity on it.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

3892. Re: [GPSL] Fw: world record attempt - Gas balloon - Aprs onboard

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-17 03:16:55 UTC
From: Mike Manes
Topic: 3878 Message: 3892

Boy, what a bummer. But I guess it beats going thataway in a hospital bed with tubes jammed in every orifice you can think of, and then some,

Here's a clip from the piece on the web site:

KCCI has learned that Dr. Tom Boylan, 62, and Bradley Brookhart, 37 from Littleton, Colo., died in the crash. Boylan is from Fort Collins, Colo., and had more than 20-years experience piloting balloons.

Rescue crews said Doug Chaplin, of Albuquerque, was flown by helicopter to Mercy Medical Center North Iowa in Mason City. Chaplin had serious injuries. His condition is unknown.

Police were able to talk to Chaplin who told them the crew was attempting to land when they hit the power line, but he wasn't able to explain why the crew was landing. Friday, he was listed in fair condition.

"For some reason (they) were coming down. We got witnesses that watched and as you can see there, they caught the top wire. And at that point the balloon and the basket separated, and it's about a 65 foot drop," Sheriff Larry Richtsmeier said.

The balloon top blew more than a mile north of the crash site.

73 de Mike W5VSI, EOSS
Littleton CO

Ryan Butler wrote:
> Obviously I typoed and it was Troy Bradley who set the record and landed
> safely, and Dr. Tom who did not.
>
> Ryan, KB0JQO
>
> On Fri, 2007-11-16 at 17:23 -0600, Ryan Butler wrote:
>> http://www.kcci.com/news/14616134/detail.html
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>> It looks like the record is safe and Dr. Tom made it down safely in
>> Wisconsin, his friend was not so lucky :(
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>> On Thu, 2007-11-15 at 18:06 -0700, Mike Manes wrote:
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> Yahoo! Groups Links
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A. Einstein

3893. NTI Flight-1 Launch Video & Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-26 23:08:33 UTC
From: Harry M
Topic: 3893 Message: 3893

NTI Flight-1 Launch Video
Scroll down the page about halfway for the video.

http://www.blueskiesokie.info/wordpress/

... and pics

http://nwablogs.com/photogs/2007/11/nti_near_space_launch.html

---

3894. Re: [GPSL] NTI Flight-1 Launch Video & Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-27 01:57:33 UTC
From: Mike Manes
Topic: 3893 Message: 3894

Hi Harry,

Interesting launch technique! Hope that tail-end charlie payload was
built "Ford Tough" :=}.

73 de Mike W5VSI

Harry M wrote:
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> NTI Flight-1 Launch Video
> Scroll down the page about halfway for the video.
>
> http://www.blueskiesokie.info/wordpress/
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3895. Re: [GPSL] NTI Flight-1 Launch Video & Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-27 02:14:11 UTC
From: Harry M
Topic: 3893 Message: 3895

HeeHeeHee... I love it! So did the kids!

The last capsule was filled with marshmallows!

That launch technique worked really well.
In that wind we played on the safe side
and decided not to have the kids hold the
payloads.

Really needed "MORE GAS"!
HOLY HELIUM! Ended up with 500 fpm.

:)

73 Harry

> Interesting launch technique! Hope that tail-end charlie payload was
> built "Ford Tough" :=}.

3896. DVD Laser Project

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-27 14:42:30 UTC
From: PAUL VERHAGE
Topic: 3896 Message: 3896

One of my students brought to my attention, a web page about removing the diode laser from a DVD burner. We I tried it out and have a laser that will now cut black tape and pop black balloons. I'll try lighting a match with it later.

You can see my mini webpage on it and the video at nearsys.org. Click under Other NearSys Projects. By next week I'll add stuff about my single lens microscope.

Paul

3897. Re: [GPSL] NTI Flight-1 Launch Video & Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-28 04:16:32 UTC
From: Mike Manes
Topic: 3893 Message: 3897

Hi Harry,

We ran a marshmallow on EOSS-100 for Steve K0SCC's son. Came back
looking like my grandpa!

I expect that your standard tethered launch technique woulda made for
an equally entertaining video :=}.

BTW, one major briefing item for payload handlers is to cradle the
payload in up-facing hands and not to grip it. The other is to
get the fastest runner on tail-end charlie (usually an APRS beacon,
since they're designed to fly like plumb bobs).

It's tough to get an accurate fill with that much false lift. Merle
combines both the tare weight and tank pressure measurements to
estimate a good fill even in windy conditions. And if all else
fails, we apply the EOSS motto: "A little more gas". Overfilling
for a windy launch does get the flight string clear of nearby
obstructions - and may not adversely affect burst altitude, as
we've seen so many times. I figger, what the heck, we paid for that
full bottle, so let's use the last CF :=}.

73 de Mike W5VSI

Harry M wrote:
> HeeHeeHee... I love it! So did the kids!
>
> The last capsule was filled with marshmallows!
>
> That launch technique worked really well.
> In that wind we played on the safe side
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> HOLY HELIUM! Ended up with 500 fpm.
>
> :)
>
> 73 Harry
>
>
>> Interesting launch technique! Hope that tail-end charlie payload was
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3898. Re: [GPSL] NTI Flight-1 Launch Video & Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-28 16:36:46 UTC
From: Harry M
Topic: 3893 Message: 3898

Mike,

I talked to Billy (N5QEM) from NTI yesterday.
As it turns out I had the fill right on the money.
Instead of the tare jug being 8 lbs, he only had
6 lbs. That only gave a total free lift of 1 lb
instead of 3 lbs for 1000 fpm. So 500-600 fpm was
right on.

They are also going to do some testing to find out
if they can figure out why the Position reports were
lacking altitude for a great deat of the flight.

N5NTI-11>APT311,WIDE2-2,WIDE3-3:/194842h3612.62N\09407.92WS057/038/A=000000
N5NTI-11>APT311,WIDE2-2,WIDE3-3:/194852h3612.67N\09407.80WS057/038/A=000000/NTI
Ballon
N5NTI-11>APT311,WIDE2-2,WIDE3-3:/194903h3612.74N\09407.68WS054/041/A=000000
N5NTI-11>APT311,DECATU*,WIDE2-1,WIDE3-3:/194903h3612.74N\09407.68WS054/041/A=000000
N5NTI-11>APT311,WIDE2-2,WIDE3-3:/194913h3612.80N\09407.56WS060/041/A=006751/NTI
Ballon
N5NTI-11>APT311,DECATU*,WIDE2-1,WIDE3-3:/194913h3612.80N\09407.56WS060/041/A=006751/NTI
Ballon
N5NTI-11>APT311,WIDE2-2,WIDE3-3:/194944h3612.97N\09407.21WS063/037/A=000000

73 Harry

> It's tough to get an accurate fill with that much false lift.

3899. Re: [GPSL] NTI Flight-1 Launch Video & Pics

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-28 19:20:23 UTC
From: Mike Manes
Topic: 3893 Message: 3899

Hi Harry,

OK re the light tare weight. Might consider tossing a fish scale in
with your fill rig to check things out before launch. Still, it's tough
to SWAG a good fill with that much wind. It did seem from the video
that the wind was quite variable, however, so you could get a fair to
middlin' neck lift during the calm moments.

If you'd been beaconing raw 'GGA records, you could have seen the number
of birds in view. You need at least 4 to get a 3D fix. This would
help determine if the GPS was getting puny due to temperature or some
other influence. You'd lose the course and speed info, but that's easy
to discern from the track on your APRS map display.

73 de Mike W5VSI

Harry M wrote:
> Mike,
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> As it turns out I had the fill right on the money.
> Instead of the tare jug being 8 lbs, he only had
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3900. Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 02:52:35 UTC
From: Hank
Topic: 3900 Message: 3900

Has anyone ever had occasion to change the frequency of
an over the counter VHF (or UHF) radio automatically?

This isn't actually a question limited to a balloon
environment.

To explain the question a little more, here's an example:

An unattended APRS transmitter that would preiodically
transmit on the standard APRS frequency, plus another
alternate frequency.

Hank

3901. Re: [GPSL] Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 03:30:21 UTC
From: Mark Conner
Topic: 3900 Message: 3901

I haven't but there is some stuff coming out soon which will allow
this. Take a look here:

http://www.rpc-electronics.com/rf.php

I believe there is also something coming in the MicroTrak line which
can do this too, configurable from a variant of the TinyTrak
interface.

- Mark

On Nov 28, 2007 8:52 PM, Hank <n1ltv@...> wrote:
> Has anyone ever had occasion to change the frequency of
> an over the counter VHF (or UHF) radio automatically?
>
> This isn't actually a question limited to a balloon
> environment.
>
> To explain the question a little more, here's an example:
>
> An unattended APRS transmitter that would preiodically
> transmit on the standard APRS frequency, plus another
> alternate frequency.
>
> Hank
>
>
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>
> Yahoo! Groups Links
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>

3902. Re: [GPSL] Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 03:40:48 UTC
From: Greg Clark
Topic: 3900 Message: 3902
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3903. Re: [GPSL] Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 03:53:31 UTC
From: Michael Gray
Topic: 3900 Message: 3903

We, ANSR - The Arizona balloon guys, use Maxon embedded radios. They have 4 control lines that you pull low to select 1 of 16 channels. They are full 5 watt radios in a rugged package. We use them to select the frequency for cross band repeater or APRS. But you could transmit on 144.39 and alternate if you wanted.

http://www.kd7lmo.net/pc_mech.html

On Thu, 29 Nov 2007, Hank wrote:

> Has anyone ever had occasion to change the frequency of
> an over the counter VHF (or UHF) radio automatically?
>
> This isn't actually a question limited to a balloon
> environment.
>
> To explain the question a little more, here's an example:
>
> An unattended APRS transmitter that would preiodically
> transmit on the standard APRS frequency, plus another
> alternate frequency.
>
> Hank
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> Yahoo! Groups Links
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3904. Re: [GPSL] Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 04:29:42 UTC
From: Mike Manes
Topic: 3900 Message: 3904

I think it's possible to swap the Alinco DJ-Cx HTs between CALL and MEM or CALL and VFO by toggling a closure on the CALL button contacts. This is a typical scanned switch matrix, so some care must be taken to avoid loading the scan lines, e.g., using a reed relay. I've not done it, since the need's not arisen. One potential problem with this scheme is that there's no easy way to verify which of the two alt freqs is active at a particular time; perhaps by isolated detection of drive to the "V" or "M" LCD segment?

I think the Maxtor radios used by ANSR are freq-agile via the serial I/O port driven by their on-board Rabbit 'puter,

73 de Mike W5VSI

Hank wrote:
> Has anyone ever had occasion to change the frequency of
> an over the counter VHF (or UHF) radio automatically?
>
> This isn't actually a question limited to a balloon
> environment.
>
> To explain the question a little more, here's an example:
>
> An unattended APRS transmitter that would preiodically
> transmit on the standard APRS frequency, plus another
> alternate frequency.
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> Hank
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3905. Re: [GPSL] Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 06:38:38 UTC
From: Dan Bowen
Topic: 3900 Message: 3905

The TH-D7 does a beautifully simple job of this via ASCII serial
commands, check out our notes on it at:
http://www.utarc.org/wiki/index.php/Using_the_Kenwood_TH-D7
We bought one for that purpose, but were too cheap to send the
expensive D7 into the air, our local terrain doesn't allow good
recovery chances.
Thanks,
Dan
UTARC

On Nov 28, 2007, at 9:52 PM, Hank wrote:

> Has anyone ever had occasion to change the frequency of
> an over the counter VHF (or UHF) radio automatically?
>
> This isn't actually a question limited to a balloon
> environment.
>
> To explain the question a little more, here's an example:
>
> An unattended APRS transmitter that would preiodically
> transmit on the standard APRS frequency, plus another
> alternate frequency.
>
> Hank
>
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3906. Re: Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 06:50:29 UTC
From: Hank
Topic: 3900 Message: 3906

Thanks for the great responses to this question.

I could have been a little more expressive about the
over the counter concept. What I'm looking for is
any *hacks* of mass produced radios, not uses of niche
radios that are intended for, or close to being intended
for (the Bee), multiple frequency operation .

So the Alinco situation outlined by Mike is exactly what
I'm curious about.

The other specialty products are also very nice to know about,
and it might be just as good that the wording was initially
a little ambiguous.

Hank

3907. Re: [GPSL] Re: Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 06:53:08 UTC
From: Dan Bowen
Topic: 3900 Message: 3907

well, you could always just reverse engineer the microphone serial protocol on those rigs that are controlled by a keypad in the hand mic :-)
Dan

On Nov 29, 2007, at 1:50 AM, Hank wrote:

> Thanks for the great responses to this question.
>
> I could have been a little more expressive about the
> over the counter concept. What I'm looking for is
> any *hacks* of mass produced radios, not uses of niche
> radios that are intended for, or close to being intended
> for (the Bee), multiple frequency operation .
>
> So the Alinco situation outlined by Mike is exactly what
> I'm curious about.
>
> The other specialty products are also very nice to know about,
> and it might be just as good that the wording was initially
> a little ambiguous.
>
> Hank
>
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3908. Re: [GPSL] Changing an unattended FM radio's frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 19:57:19 UTC
From: David Hoffman
Topic: 3900 Message: 3908

I've controlled and changed frequencies an FT-8500 Yaesu through the data jack on the back of the radio. I've also controlled and changed frequencies on the older FT-5100 Yaesu radio. In both cases I've used the Basic Stamp to send the commands to the radios.

The code for the 5100 is still out there on my website at http://www.ke4fgw.net/ft5100.bs2

The Basic Stamp for the FT-8500 acted as a go-between or interface controller between my NHRC repeater controller using the CI-V line of the controller and the radio. It's code can be found at http://www.ke4fgw.net/ci-v.bs2

David Hoffman - KE4FGW

> The TH-D7 does a beautifully simple job of this via ASCII serial
> commands, check out our notes on it at:
> http://www.utarc.org/wiki/index.php/Using_the_Kenwood_TH-D7
> We bought one for that purpose, but were too cheap to send the
> expensive D7 into the air, our local terrain doesn't allow good
> recovery chances.
> Thanks,
> Dan
> UTARC
>
> On Nov 28, 2007, at 9:52 PM, Hank wrote:
>
>> Has anyone ever had occasion to change the frequency of
>> an over the counter VHF (or UHF) radio automatically?
>>
>> This isn't actually a question limited to a balloon
>> environment.
>>
>> To explain the question a little more, here's an example:
>>
>> An unattended APRS transmitter that would preiodically
>> transmit on the standard APRS frequency, plus another
>> alternate frequency.
>>
>> Hank
>>
>>
>>
>
>
>

> Dan Bowen
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>
>
>

3909. NTI-1 Media

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-29 21:14:09 UTC
From: Harry M
Topic: 3909 Message: 3909

Post flight newspaper article about NTI-1

http://www.nwaonline.com/articles/2007/11/29/news/112907szballoon.txt

3910. freq hopper.

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-30 18:59:30 UTC
From: K. Mark Caviezel
Topic: 3910 Message: 3910

pm (PST) Has anyone ever had
occasion to change the frequency of
an over the counter VHF (or UHF) radio automatically?

This isn't actually a question limited to a balloon
environment.

To explain the question a little more, here's an
example:

An unattended APRS transmitter that would preiodically
transmit on the standard APRS frequency, plus another
alternate frequency.

Hank
>>>>>>>>>>>>>>> yes, activating the 'call frequency'
feature of many alinco's will work. And Mike
correctly points out that the most simple
implementation of this can make it hard to know which
frequency you're on.

- Mark ng0x

3911. Re: [GPSL] DVD Laser Project

Yahoo group: GPSL (2002 — 2008)
Date: 2007-11-30 23:55:36 UTC
From: wb8elk@aol.com
Topic: 3896 Message: 3911

Paul...be careful with that LASER...not an eye-safe device...be particularly careful with students using this.

- Bill WB8ELK

**********Check out AOL's list of 2007's hottest products.
(http://money.aol.com/special/hot-products-2007?NCID=aoltop00030000000001)

3912. Re: [GPSL] DVD Laser Project

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 05:22:26 UTC
From: PAUL VERHAGE
Topic: 3896 Message: 3912

Oh yeah....

This is a project I do at home and not in school. I have a pair of laser googles for this laser. They're blue and block the red of the laser.

Paul

>>> <wb8elk@...> 11/30/07 4:55 PM >>>
Paul...be careful with that LASER...not an eye-safe device...be particularly careful with students using this.

- Bill WB8ELK

**********Check out AOL's list of 2007's hottest products.
(http://money.aol.com/special/hot-products-2007?NCID=aoltop00030000000001)

3913. DTRC radio listeners frequency is 10.1225

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 19:44:20 UTC
From: Dan Bowen
Topic: 3913 Message: 3913

UX-19 "Spirit of Knoxville I" radio listeners: John W2KI in Harriman, NY reports reception of HF signal on 10.1225 usb plus 1500hz audio. Schedule is as follows:

VHF APRS: position and every 21 seconds, telemetry every 63 seconds
HF RTTY Daytime: position and telemetry on the following minutes past the hour: 0 10 20 30 40 50
HF CW Daytime: position on the following minutes past the hour: 5 15 35 45
HF RTTY Nighttime(between 2300 through 0500 in balloon's local time zone): position and telemetry on the following minutes past the hour: 0 30
HF CW Nighttime (between 2300 through 0500 in balloon's local time zone): position on the following minutes past the hour: 15 45
Thanks,
Dan Bowen
K2VOL

Begin forwarded message:

> From: John Hirth <w2ki@...>
> Date: December 1, 2007 2:37:42 PM EST
> To: UTARC general chat list <chat@...>
> Subject: [UTARC Chat] HF copy
> Reply-To: UTARC general chat list <chat@...>
>
> FYI: I have good HF RTTY copy on 30m at 10.122.5 usb plus about
> 1500Hz
> audio. You may want to publicize this freq to the DTRC volunteers.
> With
> transmittions so intermittent it will be hard to find the signal with
> random tuning.
>
> 73 and GL to all. Great Job!
>
> John W2KI
> Harriman, NY
>
>
> (now also CW)
>
>
> _____
> chat site list
> chat@...
> http://deathstar.asa.utk.edu/mailman/listinfo/chat

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3914. Re: DTRC radio listeners frequency is 10.1225

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 21:32:45 UTC
From: Dan Bowen
Topic: 3913 Message: 3914

Correction - that should be received using LSB when the DTRC
settings are left as downloaded (MMTTY Engine setup preference:
Reverse not checked)

On Dec 1, 2007, at 2:44 PM, Dan Bowen wrote:

> UX-19 "Spirit of Knoxville I" radio listeners: John W2KI in
> Harriman, NY reports reception of HF signal on 10.1225 usb plus
> 1500hz audio.
> Schedule is as follows:
>
> VHF APRS: position and every 21 seconds, telemetry every 63 seconds
> HF RTTY Daytime: position and telemetry on the following minutes
> past the hour: 0 10 20 30 40 50
> HF CW Daytime: position on the following minutes past the hour: 5
> 15 35 45
> HF RTTY Nighttime(between 2300 through 0500 in balloon's local time
> zone): position and telemetry on the following minutes past the
> hour: 0 30
> HF CW Nighttime (between 2300 through 0500 in balloon's local time
> zone): position on the following minutes past the hour: 15 45
> Thanks,
> Dan Bowen
> K2VOL
>
> Begin forwarded message:
>
>> From: John Hirth <w2ki@...>
>> Date: December 1, 2007 2:37:42 PM EST
>> To: UTARC general chat list <chat@...>
>> Subject: [UTARC Chat] HF copy
>> Reply-To: UTARC general chat list <chat@...>
>>
>> FYI: I have good HF RTTY copy on 30m at 10.122.5 usb plus about
>> 1500Hz
>> audio. You may want to publicize this freq to the DTRC volunteers.
>> With
>> transmittions so intermittent it will be hard to find the signal with
>> random tuning.
>>
>> 73 and GL to all. Great Job!
>>
>> John W2KI
>> Harriman, NY
>>

>>
>> (now also CW)
>>
>>
>> _____
>> chat site list
>> chat@...
>> http://deathstar.asa.utk.edu/mailman/listinfo/chat
>
>
>
> Dan Bowen
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3915. Re: [Balloon_Sked] Re: DTRC radio listeners frequency is 10.1225

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 22:49:37 UTC
From: Mike Manes
Topic: 3913 Message: 3915

Hi,

I've been monitoring 10.2200 and 10.2205 MHz on CW with a narrow filter
for several hours from my QTH in Denver CO area with no joy - just a few
RST 119 peeps from time to time, but not per the scheduled xmit times.

Suspect double-hop props on 30m aren't making it out this far.

What is the RTTY baud rate and FSK shift? 45 & 180 Hz?

I see that as of a few minutes ago, 95 minutes of ballast have been
dropped. How many "minutes" of the launched 6 lb remain to manage the
overnight chill?

73 de Mike W5SVI, EOSS

Dan Bowen wrote:
> Correction - that should be received using *LSB* when the DTRC settings
> are left as downloaded (MMTTY Engine setup preference: Reverse not checked)
>
> On Dec 1, 2007, at 2:44 PM, Dan Bowen wrote:
>
>> UX-19 "Spirit of Knoxville I" radio listeners: John W2KI in Harriman,
>> NY reports reception of HF signal on 10.1225 usb plus 1500hz audio.
>> Schedule is as follows:
>>
>> **
>>
>> * VHF APRS: position and every 21 seconds, telemetry every 63 seconds
>> * HF RTTY Daytime: position and telemetry on the following minutes
>> past the hour: 0 10 20 30 40 50
>> * HF CW Daytime: position on the following minutes past the hour:
>> 5 15 35 45
>> * HF RTTY Nighttime(between 2300 through 0500 in balloon's local
>> time zone): position and telemetry on the following minutes past
>> the hour: 0 30
>> * HF CW Nighttime (between 2300 through 0500 in balloon's local
>> time zone): position on the following minutes past the hour: 15 45
>>
>> Thanks,
>> Dan Bowen
>> K2VOL
>>
>> Begin forwarded message:
>>
>>> *From: *John Hirth <w2ki@... <mailto:w2ki@...>>

>>> *Date: *December 1, 2007 2:37:42 PM EST
>>> *To: *UTARC general chat list <chat@... <mailto:chat@...>>
>>> *Subject: **[UTARC Chat] HF copy*
>>> *Reply-To: *UTARC general chat list <chat@...
>>> <mailto:chat@...>>
>>>
>>> FYI: I have good HF RTTY copy on 30m at 10.122.5 usb plus about 1500Hz
>>> audio. You may want to publicize this freq to the DTRC volunteers. With
>>> transmittions so intermittent it will be hard to find the signal with
>>> random tuning.
>>>
>>> 73 and GL to all. Great Job!
>>>
>>> John W2KI
>>> Harriman, NY
>>>
>>>
>>> (now also CW)
>>>
>>>
>>> _____
>>> chat site list
>>> chat@... <mailto:chat@...>
>>> http://deathstar.asa.utk.edu/mailman/listinfo/chat
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>> Dan Bowen
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> Dan Bowen
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> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

3916. I get the UTARC UX19 balloon on 10.123 MHz

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 22:53:48 UTC
From: wb8elk@aol.com
Topic: 3916 Message: 3916

Hi Mike,

I'm monitoring 10.123.2 MHz USB at the moment and getting it as audio 2300hz.....too weak to copy much but have seen it on the waterfall trace every transmission both CW and RTTY....get occasional RTTY copy.

- Bill WB8ELK
Huntsville AL

**********Check out AOL's list of 2007's hottest products.
(http://money.aol.com/special/hot-products-2007?NCID=aoltop00030000000001)

3917. UTARC UX-19 fix as of 22:50UT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 23:05:25 UTC
From: Ralph Wallio, W0RPK
Topic: 3917 Message: 3917

```
3109.0193 -07607.7682 5941m

Received via RTTY.

This fix is ~330mi east of Jacksonville FL.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms
```

3918. Re: [GPSL] I get the UTARC UX19 balloon on 10.123 MHz

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 23:23:23 UTC
From: Mike Manes
Topic: 3916 Message: 3918

Hi Bill,

OK, then that would put the carrier on 10,123.2 - 2.300 KHz = 10.120.9 KHz.
Perhaps I've not been listening on the right freq.

73 de Mike W5VSI

wb8elk@... wrote:
> Hi Mike,
>
> I'm monitoring 10.123.2 MHz USB at the moment and getting it as audio
> 2300hz.....too weak to copy much but have seen it on the waterfall trace
> every transmission both CW and RTTY....get occasional RTTY copy.
>
> - Bill WB8ELK
> Huntsville AL
>
>
>
>
> ---
> Check out AOL Money & Finance's list of the hottest products
> <http://money.aol.com/special/hot-products-2007?NCID=aoltop00030000000001>
> and top money wasters
> <http://money.aol.com/top5/general/ways-you-are-wasting-money?NCID=aoltop00030000000002>
> of 2007.
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3919. Re: [GPSL] UTARC UX-19 fix as of 22:50UT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-01 23:43:10 UTC
From: Mike Manes
Topic: 3917 Message: 3919

The 2331Z report shows an altitude of ~14K' with 250 fpm descent rate
from http://spiritofknoxville.com/status.html.
She's a'headin' ta Davy Jones's locker, mateys!

73 de Mike W5VSI

Ralph Wallio, W0RPK wrote:
> 3109.0193 -07607.7682 5941m
>
> Received via RTTY.
>
> This fix is ~330mi east of Jacksonville FL.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>
>
>
>
> Yahoo! Groups Links
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3920. Re: [GPSL] UTARC UX-19 fix as of 22:50UT

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-02 01:40:57 UTC
From: Joe
Topic: 3917 Message: 3920

Now even with our record of 45 & 0 this one NSS would NOT be able to
get back. At least not anytime soon,, Hey

a technicality question here. for the crossing of the stlantic
competition,, does it need to stay airborne all the way..

It looks like it'l land in the Gulf Stream,, and it still will make
it all the way across,,
joe

Mike Manes wrote:

>The 2331Z report shows an altitude of ~14K' with 250 fpm descent rate
>from http://spiritofknoxville.com/status.html.
>She's a'headin' ta Davy Jones's locker, mateys!
>
>73 de Mike W5VSI
>
>
>Ralph Wallio, W0RPK wrote:
>
>
>>3109.0193 -07607.7682 5941m
>>
>>Received via RTTY.
>>
>>This fix is ~330mi east of Jacksonville FL.
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>>TNX es 73 de Ralph Wallio, W?RPK
>>W0RPK@...
>>http://showcase.netins.net/web/wallio/
>>Hubbert's Peak - The Mother of all Perfect Storms
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>>Yahoo! Groups Links
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3921. Paul Vehage's Book Near Space Book

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-04 16:00:22 UTC
From: Pete Lilja
Topic: 3921 Message: 3921

What has happened to Paul Vehage's book Near Space that used to be here: http://www.parallax.com/html_pages/resources/custapps/app_nearspace.asp Is it gone for good or is it just temporarily off line?

Thanks,

Pete

3922. Re: [GPSL] Paul Vehage's Book Near Space Book

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-04 16:15:13 UTC
From: PAUL VERHAGE
Topic: 3921 Message: 3922
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3923. MicroTrak 300 antenna choice

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-07 16:08:25 UTC
From: BASE
Topic: 3921 Message: 3923

Dear friends,

Has anyone flown the Byonics MicroTrak 300 with the
1/4 wave whip antenna?

I'm planning on flying the system with a Garmin 18 and
can easily fly with either the whip or a J-pole.

All feedback is appreciated.

Howard
hlbrooks@...

Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

3924. Re: [GPSL] MicroTrak 300 antenna choice

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-07 17:00:02 UTC
From: Robert Rochte
Topic: 3921 Message: 3924

I have flown two of them with the standard wire whips and they both worked fine. In fact, my 32 hour flight that launched from Bill Brown's "20th Anniversary of ARHAB" celebration used this same configuration.

73,
Robert
KC8UCH

On 12/7/07, BASE <basedepauw@...> wrote:
> Dear friends,
>
> Has anyone flown the Byonics MicroTrak 300 with the
> 1/4 wave whip antenna?
>
> I'm planning on flying the system with a Garmin 18 and
> can easily fly with either the whip or a J-pole.
>
> All feedback is appreciated.
>
> Howard
> hlbrooks@...

3925. Re: MicroTrak 300 antenna choice

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-07 17:40:22 UTC
From: Hank
Topic: 3921 Message: 3925

> Has anyone flown the Byonics MicroTrak 300 with the
> 1/4 wave whip antenna?

I haven't, but I'd suggest using if possible a second 1/4 wave whip to comprise a full 1/2 wave dipole. This is what I've done on our payloads.

The 1/4 wave in space doesn't form a complete antenna, although it certainly will radiate.

Hank

3926. Re: [GPSL] MicroTrak 300 antenna choice

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-07 20:32:25 UTC
From: Mike Manes
Topic: 3921 Message: 3926

Hi Howard,

Since a whip requires a counterpoise and will pump full feed current thru whatever "ground" it sees, I think you could avoid a mess of EMC problems by using a J-Pole. The Byonics products I've worked with (TT1 - TT3) are particularly susceptible to upsets from common-mode and near-field radiated RF.

73 de Mike W5VSI

BASE wrote:
> Dear friends,
>
> Has anyone flown the Byonics MicroTrak 300 with the
> 1/4 wave whip antenna?
>
> I'm planning on flying the system with a Garmin 18 and
> can easily fly with either the whip or a J-pole.
>
> All feedback is appreciated.
>
> Howard
> hlbrooks@...
>
>
> _____
> Looking for last minute shopping deals?
> Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3927. Re: [Ballooning] Research Channel video

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-07 23:38:44 UTC
From: Mike Manes
Topic: 3927 Message: 3927

Thanks, Walter

EOSS will be flying the 6th Big Blue glider experiment again next April. We'll be launching from our Windsor CO site. One of those videos was shot at the Deer Trail CO site, which we had to switch to at the last minute due to a trajectory from Windsor which would have required a gate reservation at Denver Int'l Airport :={. The rest have gone out of Windsor, where Gene Fatton generously hosts the Big Blue students and faculty during the week prior to launch as well as allowing us to set up our ground station in his sun room.

BTW, I was the dood with the blue ball cap and bad haircut peering thru the telescope. I had hoped to view the descent just 10 mi S of the launch site, but no joy.

The KG5YLM callsign on the fuselage belongs to Bill Smith, Dr. Smith's OM.

73 de Mike W5VSI

Walter Howard wrote:
> I just watched a piece on the 'Research Channel' on Dish, that was about
> a NASA funded project at the University of Kentucky to investigate
> inflatable wings for possible use on a Mars overfly mission.
>
> What's relevant here, is that their test units were hauled up to high
> altitudes by 'Edge of Space Sciences'.
> http://www.eoss.org/
>
> It was heartwarming to hear the APRS packets during flight tracking.
> Several of the EOSS members were interviewed, and their callsigns were
> in the subtitles.
>
> I don't know if it's going to be rebroadcast anytime soon, but I found a
> link to play a streaming video of the program.
>
> http://www.researchchannel.org/prog/displayevent.aspx?rID=10800&fID=345
> <http://www.researchchannel.org/prog/displayevent.aspx?rID=10800&fID=345>
>
>
> Walter, KD7BJJ
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3928. Re: [GPSL] MicroTrak 300 antenna choice

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-08 17:15:08 UTC
From: wb8elk@aol.com
Topic: 3921 Message: 3928

Howard,

I've flown two missions with the MicroTrak300 with it's standard 1/4 wave wire whip....I was going to add a 1/4 wave ground wire for a better match, but forgot to do so on both missions and they worked just fine with very complete coverage via the APRS network on both flights.

- Bill WB8ELK

**********Check out AOL's list of 2007's hottest products.
(http://money.aol.com/special/hot-products-2007?NCID=aoltop00030000000001)

3929. Hunter discovers fallen Canadian science balloon (Maine)

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-09 02:25:31 UTC
From: Greg Williams
Topic: 3929 Message: 3929

HIGHLAND PLANTATION -- When Stanley Giguere went out deer hunting Nov. 24, he was startled by what he said looked like a big orange parachute in a tree near Spruce Pond Road.

"I went and investigated it. It was a great big balloon that had popped. It was about 30 feet across and down at the bottom was a pink box with an antenna sticking out. I saw a red light on. It had a camera in it. I had mother with me and I said: 'It's looking at us.'"

Giguere chucked the balloon into the back of his truck. He and his wife, Retta, took it to their home three miles away in Pleasant Ridge Plantation, where they began to examine it.

"I took it apart and all there was, was little stickers of this school. We looked it up on the computer and e-mailed them: 'We found your balloon,'" said Giguere, the road commissioner of Pleasant Ridge.

What Giguere had happened upon was a weather balloon project undertaken by parents and children of the Perth Children's House Montessori School in Ontario, at least 550 kilometers away as the crow flies.

What Giguere didn't know was that a tracking car with three residents of Perth was circling the area at about the same time, in search of the downed balloon. By 10:30 p.m. and Peter McCracken and two friends were driving around Stratton in the dark.

"I tried to call him the next day," Giguere said. "But before I got off the phone, this guy from Fairfield pulled into the driveway tracking it. These other guys (from Perth) weren't but 10 minutes behind. It was pretty amazing. They tracked it right to my doorstep."

The Fairfield man was Eric Foster, a ham radio operator who had been tracking the device, according to McCracken, who had taken a long and speedy trip from Ontario to the hills of Highland Plantation in search of the balloon, using laptops to track it by radio signal.

"It was a very long day for us," McCracken said Monday by phone.

McCracken said the balloon project was an extracurricular science activity for the school. They purchased the balloon at a specialty store and did class science lessons about weather balloons. They enlisted the help of the Amateur Radio Emergency Service and launched the balloon at 9:45 a.m. on Nov. 24, complete with a Global Satellite Positioning system receiver, camera and radio transmitter. Inflated on the ground, the balloon was about six feet in diameter and filled with helium. As it increased in altitude, the balloon expanded to nearly 30 feet in diameter, when it was expected to break.

"Stanley (Giguere) found it the same day. It doesn't take long when it's going 160 miles an hour in the jet stream. We didn't get there until about 8 p.m. that night, at which point it was very dark," McCracken said. "We got to within a half-mile of where the balloon was, but couldn't go after it because it was too dark, and we were on the wrong side of a big river. We knew where it landed, but once he picked it up and threw it in his truck, we couldn't see (the radio signal) anymore."

Turns out the Perth folks were on the wrong side of Burnt Hill Mountain, which Giguere said "borders real close to Long Falls Dam Road in Lexington. You could look right down on the Highland Lodge, but you can't drive there from this side. In a straight line, it's about 3.5 miles from my house, which is at the top of Pleasant Ridge Plantation. They were expecting it to go to Lake Champlain and it came right across the mountains into Maine."

McCracken said four cars loaded with helpers and laptops got as far as the border at Woburn in Quebec at about 5 p.m. that day, and decided only one car would cross.

"We were burning the candle at both ends," said McCracken, who was joined by Rick Szijarto and Marc Baillon. "The border guard wondered why we had a canoe on the car in the middle of the winter. But if it landed in water... we didn't have any control over that."

McCracken said the balloon reached an estimated altitude of 118,000 feet. He said they had accurate measurements to 78,800 feet, but because of military restrictions, the GPS system is required to limit the measurements in terms of velocity, acceleration and altitude: "That's basically so someone can't make a cruise missile and bomb the United States. We estimated it went about 550 kilometers as the crow files, or as the balloon flies I should say. That's about 350 miles to Highland Plantation.

"We still didn't have contact," McCracken said, "but when (Giguere) opened up the package, it gave one final gasp of information to the airwaves and we found him that way, on Sunday around lunchtime, 11 a.m. Nov. 25." He said David Corigan, a hunting guide from Pleasant Ridge, was a big help.

McCracken said ham radio operators and Internet followers were tuned in from all over the country: "We got calls from Tampa, Florida, the Midwest and Quebec."

For Giguere said it was an equally amazing adventure: "Technology nowadays is really unreal."

Darla L. Pickett -- 474-9534, Ext. 341

dpickett@...

--
Greg Williams
K4HSM

k4hsm@...

http://www.twiar.org
http://www.etskywarn.net

3930. Totex vs Pawan (India) balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-11 06:56:16 UTC
From: Mike Manes
Topic: 3930 Message: 3930
Attachments: 1 described; binary payloads are missing from this source WARC

Hi Folks,

While googling for balloon storage temperature info, found this comparison
between Totex natural latex and Pawan (India) neoprene balloon burst altitude.
Note that the altitude is expressed as barometric pressure in mbar.
100 mbar ~ 50K', 10 mbar ~ 100K'.

Ya pays yer money, ya takes yer choice :=}. Totex earns its keep, IMHO.

73 de Mike W5VSI, EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3931. Fw: [ORB] TV camera in payload

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-11 10:48:10 UTC
From: Ralph Wallio, W0RPK
Topic: 3931 Message: 3931

----- Original Message -----
From: "Dan Wietchy" <powellite52@...>
To: <oklahoma_research_balloons@yahoogroups.com>
Sent: Monday, December 10, 2007 7:59 PM
Subject: [ORB] TV camera in payload

Hello;

I would like to inquire if anyone has even put a small color TV camera and transmitter in a balloon
payload (440 or other?).

If so - what type of camera, source and cost data would be most helpful. I'm looking for ideas for
TV payload destined for 100K altitude.

cheers
Dan KL1JP

3932. Fw: [SGSatellites] Balloon Flight Program for Minority Institutions

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-11 10:53:34 UTC
From: Ralph Wallio, W0RPK
Topic: 3932 Message: 3932

[Our GPSL list will not allow the application attachment to be included. I will forward it via
direct e-mail as requested. -- Ralph W0RPK]

----- Original Message -----
From: "T. Gregory Guzik" <guzik@...>
To: "Student Satellite" <student_satellites@...>
Sent: Monday, December 10, 2007 4:34 PM
Subject: [SGSatellites] Balloon Flight Program for Minority Institutions

Please find attached here a Call for Participants in the "Physics & Aerospace Catalyst Experiences in Research (PACER)" program. PACER, funded by NSF and managed by Louisiana State University, is designed to help minority institutions implement their own student ballooning program. A nine week workshop during the summer of 2008 will train teams from two institutions in the details of designing, constructing, managing and flying a small latex sounding balloon student payload. (Each team consists of a faculty member plus three students.) We then follow and assist the institution during the next three academic years while they implement a program for their own students. Details about the level of support provided, requirements and application materials are provided in the CFP.

A Notice of Intent is due on January 25, 2008 and the complete application is due March 7, 2008.

Please forward this e-mail to those you feel might be most interested in applying and feel free to contact me (guzik@...) with any questions.

T. Gregory Guzik
Professor - Research
Department of Physics & Astronomy
Louisiana State University

_____
Student_Satellites mailing list
Student_Satellites@...
http://spacegrant.org/mailman/listinfo/student_satellites_spacegrant.org

3933. [AD] One / Four Watt BigRedBee GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-11 19:42:05 UTC
From: k7rkt
Topic: 3933 Message: 3933

Here's a update on the BigRedBee family of transmitters that you may find interesting.

A 1 and 4 watt version of the BeeLine GPS Telemtry Transmitter is now available. This device packs a 12 channel GPS (tested to > 60K' MSL), 1200 baud AX.25 data modem, frequency agile 70cm FM transmitter, and a 4 watt amplifier on a single board measuring 3 3/4" x 1 1/4" and weighing less than 2 ounces. The 1200 baud modem transmits standard APRS data packets containing latitude, longitude, altitude as well as course and speed.

Preliminary pricing of the amplified version will be about $40 more than the non-amplified version.

I'll be adding more information to my site soon, but a picture can be found here.
http://bigredbee.com/tmp/amp2.jpg

Details of the non-amplified version can be found on www.bigredbee.com

I'd be happy to answer any questions you may have.

Regards,

-- Greg K7RKT

3934. Re: [GPSL] Fw: [ORB] TV camera in payload

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-11 19:41:08 UTC
From: Mike Manes
Topic: 3931 Message: 3934

Hi Dan,

EOSS has been flying 70cm DSB-AM ATV off and on since 1990. We use a
PC Electronics KPA-5 transmitter and a W6AOL little wheel horizontal gain
omni antenna. We've used a variety of cheap single-board color and B/W
cameras - anything that puts out standard NTSC baseband video will work.
We ID using MCW tones from a Basic Stamp on the audio channel.

73 de Mike W5VSI. EOSS

Ralph Wallio, W0RPK wrote:
> ----- Original Message -----
> From: "Dan Wietchy" <powellite52@...>
> To: <oklahoma_research_balloons@yahoogroups.com>
> Sent: Monday, December 10, 2007 7:59 PM
> Subject: [ORB] TV camera in payload
>
>
> Hello;
>
> I would like to inquire if anyone has even put a small color TV camera and transmitter in
a balloon
> payload (440 or other?).
>
> If so - what type of camera, source and cost data would be most helpful. I'm looking for
ideas for
> TV payload destined for 100K altitude.
>
> cheers
> Dan KL1JP
>
>
>
>
> Yahoo! Groups Links
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>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3935. Transmission Frequency Rate and Battery Life

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-15 02:05:57 UTC
From: Pete Lilja
Topic: 3935 Message: 3935

For you experienced HABists:

I understand there will be variability in what different groups of fliers do but I'm trying to wrap my head around the following:

At what time frequency do you set your APRS transmitters to signal their position during balloon flights?

Minimally how long do you want your transmitter batteries to last on flights?

Thanks,

Pete

3936. Re: [GPSL] Transmission Frequency Rate and Battery Life

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-15 03:44:04 UTC
From: Mike Manes
Topic: 3935 Message: 3936

Hi Pete,

EOSS beacons GGA every 30 sec and RMC & TLM every 60 sec on our single and two-fer flights out of Colorado. For GPSL, we back off to 60 sec to share the time-slotted freq. Our primary APRS beacons also carry full TNCs so they can digi the chase team beacons as well that of the other balloon on two-fers.

As a rule, we design for a minimum of 24 hrs beacon power, although that's overkill. We power up 30 - 45 minutes prior to launch, and the chase team typically has nailed the landing site within 15 minutes of touchdown. So 4 hours is about all we actually use, typically. We are less generous with experiments and non-mission-critical payloads, however. Of course, batteries that fit are available in pretty coarse increments of mAH capacity, so quite often we end up launching well over 24 hrs beacon life.

Note that we ALWAYS fly redundant beacons on every flight in order to keep Murphy at bay: one APRS plus one DF or DF/APRS. This has contributed materially to our 125/125 recovery record.

73 de Mike W5VSI, EOSS

Pete Lilja wrote:
> For you experienced HABists:
>
> I understand there will be variability in what different groups of
> fliers do but I'm trying to wrap my head around the following:
>
> At what time frequency do you set your APRS transmitters to signal their
> position during balloon flights?
>
> Minimally how long do you want your transmitter batteries to last on
> flights?
>
> Thanks,
>
> Pete
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

3937. Re: [GPSL] Transmission Frequency Rate and Battery Life

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-15 16:13:57 UTC
From: Mark Conner
Topic: 3935 Message: 3937
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3938. Re: [GPSL] Transmission Frequency Rate and Battery Life

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-15 16:16:59 UTC
From: Mark Conner
Topic: 3935 Message: 3938
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3939. Re: [GPSL] Transmission Frequency Rate and Battery Life

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-17 23:12:59 UTC
From: Greg Clark
Topic: 3935 Message: 3939

> At what time frequency do you set your APRS transmitters to signal their
> position during balloon flights?
>
> Minimally how long do you want your transmitter batteries to last on
> flights?
>

I'm still testing, but the battery life of the 1 Watt BeeLine GPS
looks to be about 24 hours with a 1000 mah 3.7V li-poly battery
transmitting once every 30 seconds. Things will scale fairly linearly
by adding larger batteries, or changing the transmission frequency.

-- Greg, K7RKT

3940. Re: [Ballooning] ANSR-42 Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-19 04:16:36 UTC
From: Mike Manes
Topic: 3940 Message: 3940

Hi Mike,

Nice, safe recovery from that 7.6 KV (?) 3-phase line! Coulda been
worse, tho, like EOSS-90. Here's a video:

http://www.eoss.org/eoss090/eoss090_kb0ubz_Toast_ed_d.wmv

There was NOTHING salvageable from that DF beacon:

http://www.eoss.org/ansrecap/ar_100/recap90l.htm

Gotta develop a way to let us steer a parachute out of harm's way without
getting nicked by the new FAA UAV rules. I'm working on it.

73 de Mike W5VSI, EOSS

kd7lmo wrote:
> The ANSR-42 flight summary has been posted. It includes the complete
> data set as well as pictures of our first power line landing.
>
> http://www.kd7lmo.net/ansr/ansr_42.html
>
> 73s de KD7LMO
>
>
>
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>

>
> Regards,
>
> Moderator, Ballooning
>
>
>
> Yahoo! Groups Links
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>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3941. Thermometers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-20 20:30:16 UTC
From: Pete Lilja
Topic: 3941 Message: 3941

OK, it's winter and I'm not flying but still planning of my first HAB flight. In reading several HAB web site often references are made to the temperature both inside and outside the payload box. What type of thermometer is used to do this? Is it incorporated in to the APRS packet? Stored and retrieved after the flight?

Thanks,

Pete
KCØGPB

3942. Re: [GPSL] Thermometers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-20 20:41:16 UTC
From: PAUL VERHAGE
Topic: 3941 Message: 3942
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3943. Re: [GPSL] Thermometers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-20 21:14:49 UTC
From: Mike Manes
Topic: 3941 Message: 3943

Hi Pete,

EOSS's KPC-3-based APRS modules use the analog telemetry frames to downlink interior and outside air temps using the LM335 sensors. Telemetry gets parsed and logged in real time by Nick Hank's (N0LP) ground station software.

The LM335 does suffer from some self-heating errors, especially in the thin air up there. This is evident in the much lower temperatures logged during descent, when airflow is much faster, compared to ascent at the same altitudes.

We've used the sudden drop in air temp as a secondary indication of burst, back when GPS was less than 100% reliable.

The self-heating problem could be cured by gating the bias current on only during measurement samples, but that's not easy with the KPC-3. It could be done using an asynchronous external analog sample/hold circuit that runs at least as often as the telemetry downlink. Or using any of the newer pea-power temp transducers.

73 de Mike W5VSI

Pete Lilja wrote:
> OK, it's winter and I'm not flying but still planning of my first HAB
> flight. In reading several HAB web site often references are made to
> the temperature both inside and outside the payload box. What type of
> thermometer is used to do this? Is it incorporated in to the APRS
> packet? Stored and retrieved after the flight?
>
> Thanks,
>
> Pete
> KCØGPB
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

3944. Re: [GPSL] Thermometers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-20 21:18:39 UTC
From: John C Nordlie
Topic: 3941 Message: 3944

The group at UND uses National Semiconductor LM335Z sensors, connected to a logger (usually a Basic stamp II through an analog to digital converter).

3945. RE: Thermometers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-20 22:17:21 UTC
From: mconner1@gmail.com
Topic: 3941 Message: 3945

NSTAR uses a combination of two things:

1) LM335's run through an A/D converter, which is formatted to APRS telemetry format and transmitted once per minute. It's also stored at more frequent intervals onboard.

2) Dallas Semiconductor "Thermochrons", which is a self-powered temp sensor with internal clock and memory. About the size of 5-6 dimes stacked on one another. Looks like a big mercury battery. You can program them ahead of time for stop/start/interval, then place them in your payload.

This supplier claims to have them in stock - in the past, they have been difficult to find. Backorders tend to take forever.
http://www.embeddeddatasystems.com/page/EDS/CTGY/TCTC

You will also need the reader unit, and there is free Windows software for programming the buttons and downloading the data (Embedded Data Systems appears to sell the software, but it should be available free from
http://www.maxim-ic.com/products/ibutton/software/tmex/index.cfm).

73 de Mark N9XTN
www.nstar.org

3946. Re: [GPSL] Thermometers

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-21 16:25:51 UTC
From: Dan Bowen
Topic: 3941 Message: 3946

We (UTARC) use DS1820 / DS18S20 / DS18B20 digital sensors, they are the size of a transistor, and give very precise output. We have tested them down to -60C using dry ice, though their rating only goes to about -50. They use a 1-wire interface, and are parasite powered, which means they get their power from the data line. They are also addressable, which means you can attach more than one to a single data and ground line.

http://www.maxim-ic.com/quick_view2.cfm/qv_pk/2815

Here's a snippet of code to read the DS18B20:

http://snipplr.com/view/2189/picbasic-interfacing-18f-pic-with-temperature-sensor-maxim-ds18b20/

I can't recall which of the three versions is currently available, but if you have trouble using that code, just email me, there's just a slight change to make for the B or S models.

73,
Dan
K2VOL
UTARC

On Dec 20, 2007, at 3:30 PM, Pete Lilja wrote:

>
> OK, it's winter and I'm not flying but still planning of my first
> HAB flight. In reading several HAB web site often references are
> made to the temperature both inside and outside the payload box.
> What type of thermometer is used to do this? Is it incorporated in
> to the APRS packet? Stored and retrieved after the flight?
>
> Thanks,
>
> Pete
> KCØGPB
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3947. Re: [EOSS_Private] RE: Anaeroid pressure sensor

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-27 03:09:50 UTC
From: Mike Manes
Topic: 3947 Message: 3947

Hi Joe,

The anaeroid cell used in the EOSS fast release was salvaged from a surplus VIZ radiosonde. You can still get those sondes from Herbach & Rademan online for $10 ea:

http://www.herbach.com/Merchant2/merchant.mv?Screen=CTGY&Store_Code=HAR&Category_Code=RAD

This style radiosonde is obsolescent, with NWS transitioning over to GPS based sondes which don't require such sophisticated ground stations for position tracking. The "compact" sonde shown on the same page may not have the same kind of mechanical barometric multiplexer.

I've also drawn a blank on other sources for anaeroid cells, although they're commonly used in consumer-grade barometers. Fortunately, we've got several spare sondes and anaeroids on hand if needed for replacements.

One of our member's XYL is working on an autocad drawing of the fast release device, so I hope that the design details of that prototype will be available at the EOSS web site before too long.

Good luck on your flights! BTW, the Vienna (VA) Wireless Society has an active balloon program, if you're interested in getting some hands-on experience before your first launch.

73 de Mike W5VSI, EOSS

Rick von Glahn wrote:
> I've no idea, but I'll forward along your question and I'm sure Mike can
> hook you up with a supplier.

> Oops, maybe not. I actually seem to dimly remember he came across them
> from a source that was (in effect) going out of business. It was a
> college balloon program and they basically closed up shop. I think, but
> am not sure, that the cells came from there. However, I may be wrong or
> Mike or one of our other members who work with that hardware may be able
> to correct me or point you to a good source.
>
>
>
> Good luck with your program.
>
>
>
> 73 -- Rick, N0KKZ
>
>

>
> *From:* jsnyder [mailto:jsnyder@...]
> *Sent:* Tuesday, December 25, 2007 9:23 AM
> *To:* webmaster@...
> *Subject:* Anerobic pressure sensor
>
>
>
> Hello,
>
> I have been reading the great information on your EOSS web site and look
> forward to doing some near space exploration of my own here in the
> southwestern mountains of Virginia. I do have a question though; where
> did Mike Manes purchase the aneroid cell that he used in the quick
> release mechanism? I have done several Google and other engine searches
> and cannot find anything except complete barometers or electronic versions.
>
> Regards,
> Joe Snyder
> Galax, VA USA
> jsnyder@trelis.com <mailto:jsnyder@...>
>
>

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3948. [Fwd: [Ballooning] DREAMS - 3]

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-27 04:28:21 UTC
From: Mike Manes
Topic: 3948 Message: 3948

FYI.
73 de Mike W5VSI, EOSS

-------- Original Message --------
Subject: [Ballooning] DREAMS - 3
Date: Tue, 25 Dec 2007 14:01:14 -0600
From: Carey Huff <huffcar@...>
Reply-To: Ballooning@yahoogroups.com
To: <Ballooning@yahoogroups.com>

Hello all,

The Columbus NASA Connections program has launched and recovered its third balloon carrying student experiments. The recovery was visual, as we saw the double parachute system in deployment fall in front of us into a cow pasture. Some images and data are posted on the site below -- click on the DREAMS-3 link or pictures.

http://www.columbus2space.org

The total mass was 1900 grams and included a 440MHz repeater, 0.8W APRS system, carbon dioxide sensor, 3 axis accelerometer, 2 temp sensors, and a relative humidty sensor. Plots of these data will be posted after Christmas. Maximum altitude reached was 91,700 feet using a 1500g balloon inflated with 15 pounds of lift.

This email also serves the purpose of wishing you all a festive and/or relaxing holiday!

Ever upward,

--
Luther W. Richardson, Jr.
Columbus NASA Connections
http://connect.columbus2space.org

Columbus High School Space Program
http://www.columbus2space.org

Physics Department
AUBURN UNIVERSITY

"There is a theory which states that if ever anyone discovers exactly what the universe is for and why it is here, it will instantly disappear and be replaced by something even more bizarre and inexplicable. There is another that states that this has already happened. - Douglas Adams"

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3949. Checking In

Yahoo group: GPSL (2002 — 2008)
Date: 2007-12-28 01:48:39 UTC
From: Brek Brixius
Topic: 3949 Message: 3949

Well it has been a very busy couple of months here but I finally got a moment and I thought I would just check in with the group. :)

I think the last time I checked in with the group Angie and I were preparing to go talk to the Hot Springs Amateur Radio Club of Hot Springs South Dakota. Mike W5VSI was kind enough to send me a power point he had prepared for another gathering. Thanks again Mike, it was a big help with our presentation.

The Hot Springs club has a nice shack where they hold there meetings. Note the word small in that description. There were about 20+ showed up for the presentation and we litterally had the place packed.

Angie and I showed part of the NSTAR video Mark sent, we handed out Mike's Power Point, and passed around some of our BUNS hardware, photos from GPSL 2007 and a copy of Nuts & Volts open to one of Paul's articles. Then we talked / answered questions for an hour and 39 minutes.

Finally, we ate chocolate cake and had coffee.

It was a nice evening. They said they enjoyed it very much and I know Angie and I really enjoyed it. I don't know if we recruited any new balloonatics but, we made some friends and got to talk about something we love. That is pretty good in my book.

I hope everyone is enjoying the holidays. It has been cold and snowy in our corner of Nebraska recently. Good weather to stay in and work on projects.

I haven't been very productive with my projects I am affraid. I have an old ATARI computer. The RAM went out. 23 year old computer and it's already falling apart - go figure. Anyhow, I desoldered the old RAM, socketed the board and installed fresh RAM. It's going again. Of course it has to be tested properly. Games are the most demanding application for any computer. ;)

I have also been playing with the Picaxe 40X1. I don't have much experience with microcontrollers but this little guy seems very capable. I used a Picaxe 08M to control 3 cameras for my balloon at GPSL 2007. On that I had programmed several different firing patterns and rates for the cameras. I had to squeeze to get all that into the 08M's small memmory. The 40X1 is a lot bigger physically. Even so, its still compact enough to fly. All the I/O and more room for code are nice advantages too. At around $11.00 each the 40X1 looks like a pretty good deal to me.

Well, take care folks. Enjoy the rest of the Holidays and have a safe and Happy New Year.

73

Brek - KC0YOE

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

3950. UTARC Spirit of Knoxville II launch Jan 2/3

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-01 04:12:19 UTC
From: Greg Williams
Topic: 3950 Message: 3950

Below is the announcement sent out this evening. We plan to launch on Wednesday night at 9PM Eastern (0200 GMT 1/3) and our path prediction looks to follow UX-19 going off the coast of NC/SC area before making a turn north towards Europe some time after crossing the coast into open ocean.

Please feel free to pass this info on to any groups interested.
Greg

Greetings,

Happy New Year to one and all. UTARC is pleased to announce its first trans-Atlantic balloon attempt, the Spirit of Knoxville II. It is our intention to launch from Knoxville Downtown Island Airport at 02:00 UTC January 3 (9:00 PM EST January 2). Local visitors are welcome to come to the launch. Here is a Google map of the launch location:

http://maps.google.com/maps?sll=35.962984,-83.87171

We also invite everyone to follow along with our new, enhanced live tracking system at:

http://www.spiritofknoxville.com/

Also, we are pleased to announce our new alert system, which allows you to sign up for email alerts when various flight conditions are met. Visit this site for more information:

http://alerts.spiritofknoxville.com/

DTRC users, we need your help! The DTRC status page (http://dtrc.utarc.org/status.php) will be updated soon with more detailed information. Your help is vital to our success. If you have any questions, just email us.

Thanks again, and Happy New Year!

The UTARC Team

UTARC Balloon Announcements List
http://www.utarc.org/mailman/listinfo/announcements

3951. 2007 ARHAB Flights

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-03 12:44:32 UTC
From: Ralph Wallio, W0RPK
Topic: 3951 Message: 3951

ARHAB flights in 2007: 150 In 2006: 117 In 2005: 113

2007 ARHAB Flights

001] 04Jan07 HABET L-70-C IA Iowa State University
002] 20Jan07 UAH Flight #2 AL University of Alabama - Huntsville
003] 24Jan07 TU BalloonSat-42 IN Taylor University
004] 27Jan07 ANSR-34 AZ
005] 29Jan07 MIT-1 MA MIT Radio Society
006] 11Feb07 ANSR-35 AZ
007] 17Feb07 RFS-23 OK
008] 03Mar07 DART-2 OK
009] 04Mar07 EOSS-114 CO
010] 11Mar07 BioLaunch-1 CA Stanford University
011] 15Mar07 GPA ZP floater MI Grosse Pointe Academy
012] 17Mar07 EOSS-115 CO
013] 30Mar07 SDG-1 SP floater MI Grosse Pointe Academy
014] 31Mar07 ANSR-36 AZ
015] 31Mar07 NNU ID Northwest Nazarene University
016] 01Apr07 ICARUS II TN Univ of Tennessee ARC
017] 06Apr07 ICARUS III TN Univ of Tennessee ARC
018] 07Apr07 UAH ECE AL Univ of Alabama - Huntsville
019] 07Apr07 HABE-I (KE7GRE) WA
020] 09Apr07 SDG-2 SP floater MI Grosse Pointe Academy
021] 14Apr07 Concordia ND Concordia College
022] 14Apr07 ANSR-37 AZ
023] 14Apr07 NNU ID Northwest Nazarene University
024] 15Apr07 FAR HORIZONS-III IL Adler Planetarium
025] 15Apr07 EOSS-116 CO
026] 15Apr07 EOSS-117 CO
027] 17Apr07 SDG-4 MI Grosse Pointe Academy
028] 20Apr07 NSS-42 WI
029] 21Apr07 UX-12 TN Univ of Tennessee ARC
030] 21Apr07 UX-13 TN Univ of Tennessee ARC
031] 21Apr07 Post 632 2007A OH
032] 21Apr07 AHAB-8 AL Auburn University
033] 21Apr07 VAST ID University of Idaho
034] 22Apr07 BRAQ 2007A PQ
035] 23Apr07 TigerCub-2 SC Clemson University
036] 28Apr07 UNDHBP 2007-1 ND University of North Dakota
037] 28Apr07 ISU RISE ID Idaho State University
038] 29Apr07 NSV CNS-015 KS
039] 03May07 UAH SHC-3 AL University of Alabama - Huntsville
040] 09May07 BSAT-45 IN Taylor University
041] 11May07 BioLaunch B07B CA Stanford University

042] 19May07 INTER/UMET PR Universidads Interamericana & Metropolitana
043] 19May07 NSS-42 WI
044] 19May07 MVASTRO-TVNSP ID
045] 23May07 ACES-6 TX LSU Space Sciences
046] 23May07 ACES-7 TX LSU Space Sciences
047] 26May07 CP03 POLAND
048] 09Jun07 HABET LX-106A IA Iowa State University
049] 09Jun07 UTARC UX-14 TN Univ of Tennessee ARC
050] 16Jun07 EOSS-118 CO
051] 16Jun07 CNNSP-08 NE
052] 20Jun07 CNS-017 MO
053] 22Jun07 Concordia ND Concordia College
054] 23Jun07 HABET LX-106B IA Iowa State University
055] 23Jun07 WB8ELK AL
056] 24Jun07 NG0X Solar CO
057] 24Jun07 N0BKB/N0ORU IA
058] 27Jun07 KD4STH ACE ID
059] 30Jun07 HARP49 IN Taylor University
060] 30Jun07 INTER/UMET #1 PR Universidads Interamericana & Metropolitana
061] 01Jul07 INTER/UMET #2 PR Universidads Interamericana & Metropolitana
062] 01Jul07 N0BKB/N0ORU #1 IA
063] 01Jul07 N0BKB/N0ORU #2 IA
064] 07Jul07 EOSS-119 NE GPSL2007
065] 07Jul07 NSTAR-07A NE GPSL2007
066] 07Jul07 ORB-22 NE GPSL2007
067] 07Jul07 CNS-020 NE GPSL2007
068] 07Jul07 Nick Stich NE GPSL2007
069] 07Jul07 NearSys NE GPSL2007
070] 07Jul07 BUNS-1 NE GPSL2007
071] 07Jul07 Taylor Univ NE GPSL2007
072] 07Jul07 EOSRED NE GPSL2008
073] 09Jul07 SDG-5 MI Grosse Pointe Academy
074] 14Jul07 BRAQ 2007-3 PQ
075] 20Jul07 FAR HORIZONS-IV IL Adler Planetarium
076] 21Jul07 EOSS-120 CO
077] 21Jul07 NSTAR-07B NE
078] 22Jul07 DREAMS-1 GA Columbus NASA Connections
079] 25Jul07 SIMSAT-3 MD
080] 31Jul07 ACES-8 TX Louisiana State University
081] 02Aug07 NS-14x MD Maryland Space Grant
082] 04Aug07 EOSS-121 CO
083] 04Aug07 ANSR-38 AZ
084] 04Aug07 BioLaunch B07D CA Stanford Univeristy
085] 11Aug07 WB8ELK OH 20th ARHAB Ann
086] 11Aug07 Taylor Univ OH 20th ARHAB Ann
087] 11Aug07 GPA SDG-6 OH 20th ARHAB Ann
088] 11Aug07 DART-3 OK
089] 11Aug07 NSS-44 WI
090] 11Aug07 SABLE-III Alberta Canada
091] 11Aug07 Ilmari-2007 Finland

092] 16Aug07 FarHorizons-10 IL Adler Planetarium
093] 18Aug07 CNS-022 MO
094] 22Aug07 GPA SDG-7 MI
095] 25Aug07 BLT-23 TX
096] 01Sep07 ORB-23 OK
097] 01Sep07 HABET L-100-A IA Iowa State University
098] 01Sep07 NTBP-15 TX
099] 01Sep07 N0BKB/N0ORU #1 IA
100] 01Sep07 N0BKB/N0ORU #2 IA
101] 02Sep07 CNNSP-9 NE
102] 07Sep07 TaylorBalloonSat IN Taylor University
103] 09Sep07 Dutch Balloon Fox Netherlands
104] 15Sep07 UTARC UX-15 TN Univ of Tennessee ARC
105] 29Sep07 CP-04 Poland
106] 30Sep07 NS-15 MD MD Space Grant
107] 03Oct07 DA0SPUTNIK Germany
108] 06Oct07 BRAQ 2007-5 PQ
109] 06Oct07 WB8ELK TX
110] 20Oct07 HABET LX108A IA IA State University
111] 20Oct07 EOS-4 ME
112] 20Oct07 ARBONET-2 TX
113] 20Oct07 ANSR-39 AZ
114] 20Oct07 UX-18 TN Univ of Tennessee ARC
115] 20Oct07 HARP 57 IN Taylor University
116] 23Oct07 NSS-45 WI
117] 27Oct07 UAH SCH-004 AL Univ of Alabama - Huntsville
118] 27Oct07 EOSS-122 CO
119] 27Oct07 EOSS-123 CO
120] 27Oct07 HAPB-2 TX
121] 03Nov07 KWU/SSOK KS
122] 03Nov07 ANSR-40 AZ
123] 03Nov07 UNDBP ND
124] 03Nov07 HALO ZNZ-2 IL
125] 03Nov07 HALO ZNZ-3 IN
126] 03Nov07 HALO ZNZ-4 MN
127] 03Nov07 HALO ZNZ-5 MN
128] 03Nov07 HALO ZNZ-6 IN
129] 03Nov07 HALO ZNZ-9 OH
130] 03Nov07 HALO ZNZ-10 IN
131] 03Nov07 HALO MGQ-11 IA
132] 03Nov07 RISE ID Idaho State Univ
133] 04Nov07 DREAMS-2 AL Columbus NASA Connections
134] 10Nov07 EOSS-124 CO
135] 10Nov07 EOSS-125 CO
136] 10Nov07 UAH #1 AL
137] 10Nov07 UAH #2 AL
138] 10Nov07 ASTRO-07 OK
139] 10Nov07 BRAQ 2007-6 PQ
140] 11Nov07 NSTAR 07-C NE
141] 11Nov07 N0BKB/N0ORU IA

142] 17Nov07 ANSR-41 AZ
143] 20Nov07 NTI AR Northwest Technical Institute
144] 24Nov07 GBC-1 ON Great Balloon Chase
145] 01Dec07 UX-19 ZP TN Univ of Tennessee ARC
146] 14Dec07 BASE-19 IN Depauw University
147] 15Dec07 ANSR-42 AZ
148] 22Dec07 VWS-5 VA
149] 22Dec07 DREAMS-3 GA Columbus NASA Connections
150] 24Dec07 ESOS-8 TX NG0X Solar floater

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3952. 2007 ARHAB Annual Contest results

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-03 13:34:50 UTC
From: Ralph Wallio, W0RPK
Topic: 3952 Message: 3952

```
Highest GPS Reported Maximum Altitude (feet ASL)
------------------------------------------------
117,597ft 11Aug07 SABLE-III [1]
110,915ft 07Jul07 NSTAR-07A (GPSL)
103,374ft 10Feb07 ANSR-35
102,962ft 25Jul07 SimSat-3
102,165ft 10Nov07 ASTRO-07
100,436ft 20Jun07 CNS-017
[1] Not qualified for 2007 annual contest: <24-hour notice

Longest Great Circle Distance, Release to Touchdown
---------------------------------------------------
933.54mi 15Mar07 GPA ZP (Grosse Pointe Academy)
589.39mi 01Dec07 UTARC UX-19 ZP
194.25mi 11Aug07 GPA DIY Super-Pressure SDG-6 [1]
130 mi 24Dec07 ES-OS Eight [2]
61.38mi 10Feb07 ANSR-35
[1] Limited by <2-hour telemetry rule
[2] Not qualified for 2007 annual contest: <24-hour notice

Longest Flight Time, Release to Touchdown
-----------------------------------------------------
32h:26m 11Aug07 GPA DIY Super-Pressure SDG-6 [1]
17h:01m:41s 21Oct07 UTARC UX-18
16h:14m 11Aug07 GPA DIY Super-Pressure SDG-6 [1]
11h:37m:23s 01Dec07 UTARC UX-19 ZP
5h:16m:37s 13Oct07 UTARC UX-17
5h:07m:12s 24Dec07 ES-OS Eight [2]
[1] Limited by <2-hour telemetry rule
[2] Not qualified for 2007 annual contest: <24-hour notice

Greatest Telemetry Downlink Reception Range
VHF/UHF >50MHz near line-of-sight
-----------------------------------------
393.9mi 21Jul07 NSTAR-07B K9KK
335.9mi 02Sep07 CNNSP-9 N?QBH
298.9mi 27Oct07 UAH SHC-004 NW5R
244.1mi 16Jun07 CNNSP-08 W?RPK
208.3mi 29Apr07 NSV W?RPK

Greatest Telemetry Downlink Reception Range
HF <50MHz via any mode of propagation
-----------------------------------------
4,572mi 02Dec07 UTARC UX-19 ZP CW/30m DJ1YFK (Germany)
1,173mi 15Dec07 ANSR-42 PSK-31/20m W?RPK
```

Greatest Two-Way QSO Repeating/Transponding Great Circle Distance
---
777mi 14Apr07 ANSR-37 N8DEZ/6<>N5QO
742mi 14Apr07 ANSR-37 KQ6UP<>N5QO
715mi 14Apr07 ANSR-37 KQ6UP<>N5PAX/KE5INE
576mi 10Feb07 ANSR-35 KQ6UP/KD6CAE<>WK5C
568mi 10Feb07 ANSR-35 KQ6UP/KD6CAE<>NK5W
567mi 10Feb07 ANSR-35 KQ6UP/KD6CAE<>W5BI/WA5WHN
309mi 27Jan07 ANSR-34 WK5C<>KD7LMO

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

3953. Fw: Amateur Radio High Altitude Ballooning [at Rochester MN Hamfest]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-09 12:23:20 UTC
From: Ralph Wallio, W0RPK
Topic: 3953 Message: 3953

----- Original Message -----
From: <DFranck@...>
To: <W0RPK@...>
Cc: <DFranck@...>
Sent: Wednesday, January 09, 2008 00:17
Subject: Amateur Radio High Altitude Ballooning

Hi, my name is Don Franck, AD0F, and I am a member of the Rochester Amateur Radio Club (RARC) in Rochester, MN. We are in the planning stages of having a "mini- Dayton" convention on August 8 - 10, 2008. And was wondering if there might be some interest in the Near Space projects to come to Rochester for a possible launch. This convention will be hosted by us and is drawing on the Dakota Division of the ARRL. So, there will hopefully be thousands of Hams and public at the convention. I am trying to see of your group, and others, might wish to come. We should have ample room for you to do a setup demo or launch at this convention. And just plain, gee whiz the public.

So, if you think members or your entire group would be interested, please let me know. And if you could help get me in touch with other groups, I would welcome it. As this is a chance to show what we can do with some radios and weather balloons. It's real science and we should use every chance we get to let people know that!

Donald R. Franck,AD0F

3954. Re: Fw: Amateur Radio High Altitude Ballooning [at Rochester MN Hamfest]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-10 04:14:07 UTC
From: Don Franck
Topic: 3953 Message: 3954

On a side note, if anyone has old equipment they be willing to part with, I am looking to try for a launch myself at the convention. Or if someone is within driving distance who is willing to loan some for a static display, I would see it is returned after the convention. This looks to become a big convention (mini-Dayton) so thousands would see that this project can do real science. And we would have a chance to garner a large interest in this activity. So, please contact me either here at GPSL, KNSP, or my email address listed below. Thanks and hope to see you here in August!

Don Franck, AD0F
dfranck@...

3955. Spirit of Knoxville III to launch after 0000 UTC Jan 15

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-13 07:05:04 UTC
From: Dan Bowen
Topic: 3955 Message: 3955

The Spirit of Knoxville balloon team is pleased to announce the launch of Spirit of Knoxville III, which will occur between 0000 and 0300 UTC Tuesday, January 15 (7-10 PM EST Monday, January 14). As launch time is dependent on local weather, a final determination and announcement will be made on January 14 on the website news feed.

Driving directions are available on the Launch Info page, and in-flight updates are available on our Alerts page. A full-featured live tracking system will also be available on the website.

Please monitor http://www.spiritofknoxville.com for further details and a more precise launch time.

Thank you,
The UTARC Balloon Team
http://www.spiritofknoxville.com

Please send press inquiries to contact@...

3956. Launch time finalized

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-14 02:08:33 UTC
From: gregwilliams@knology.net
Topic: 3956 Message: 3956

After reviewing the weather predictions, we are aiming for a more precise launch time (weather permitting) of 0200 UTC (9:00PM Eastern Time) from Island Home Airport in Knoxville.

Weather at 9PM Eastern, depending on the weather site you look at, averages out to the following:

Temperature: 33 F
Humidity: 57%
Dewpoint: 19 F
Winds: WNW 5-7 mph
Skies: Mostly Cloudy

DTRC users should be listening for a signal on 30 meters at approximately 0800 UTC (3:00AM Eastern Time) as the payload crosses the Carolina coastline and out into the Atlantic.

UTARC is still looking for stations on both sides of the Atlantic to monitor for the payload on 30m via DTRC (Distributed Tracking Relay Client). All you need is an HF receiver and a computer with a constant connection to the internet. Details and instructions are available at http://dtrc.utarc.org.

While over the US, the payload will be on the standard APRS frequency of 144.390. The 30 meter frequency will be approximately 10.126 LSB, +/- 1 kHz. The 30m frequency will be transmitting CW and RTTY.

For updates, to sign up for updates, or to track the balloon once in the air, please visit our web site at http://www.spiritofknoxville.com.

Gregory S. Williams
gregwilliams@...

3957. RE: [GPSL] Launch time finalized

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-14 03:39:35 UTC
From: Wayne Helms
Topic: 3956 Message: 3957

What date is launch?

73's

Kc5wxc

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of gregwilliams@...
Sent: Sunday, January 13, 2008 8:09 PM
To: ballooning@...; gpsl@yahoogroups.com; chat@...
Subject: [GPSL] Launch time finalized

After reviewing the weather predictions, we are aiming for a more precise launch time (weather permitting) of 0200 UTC (9:00PM Eastern Time) from Island Home Airport in Knoxville.

Weather at 9PM Eastern, depending on the weather site you look at, averages out to the following:

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While over the US, the payload will be on the standard APRS frequency of 144.390. The 30 meter frequency will be approximately 10.126 LSB, +/- 1 kHz. The 30m frequency will be transmitting CW and RTTY.

For updates, to sign up for updates, or to track the balloon once in the air, please visit our web site at http://www.spiritof <http://www.spiritofknoxville.com.> knoxville.com.

Gregory S. Williams
gregwilliams@ <mailto:gregwilliams%40knology.net> knology.net

3958. Re: [GPSL] Launch time finalized

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-14 04:09:28 UTC
From: Greg Williams
Topic: 3956 Message: 3958

Sorry, 9PM Eastern, Monday night 1/14/08

UTARC Spirit of Knoxville III, I'm sure that'd help too. :-)

3959. Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 02:25:34 UTC
From: zclobes
Topic: 3959 Message: 3959

http://www.findu.com/cgi-bin/find.cgi?call=AA4UT-11

http://www.spiritofknoxville.com/

Zack Clobes, W0ZC
Project: Traveler

3960. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 02:31:06 UTC
From: Harry M
Topic: 3959 Message: 3960

Great tracking site...

http://aprs.fi/?call=AA4UT-11

3961. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 02:59:05 UTC
From: Mark Conner
Topic: 3959 Message: 3961
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3962. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 03:02:52 UTC
From: Robert Rochte
Topic: 3959 Message: 3962
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3963. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 04:29:01 UTC
From: Michael Gray
Topic: 3959 Message: 3963

Live tracking with Google Earth.

http://aprs.fi/?call=AA4UT-11

On Tue, 15 Jan 2008, zclobes wrote:

> http://www.findu.com/cgi-bin/find.cgi?call=AA4UT-11
>
> http://www.spiritofknoxville.com/
>
> Zack Clobes, W0ZC
> Project: Traveler
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

3964. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 04:29:20 UTC
From: Michael Gray
Topic: 3959 Message: 3964

Oh sorry...double post. Great minds think alike :)

On Mon, 14 Jan 2008, Harry M wrote:

> Great tracking site...
>
> http://aprs.fi/?call=AA4UT-11
>
>

3965. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 04:31:51 UTC
From: Greg Williams
Topic: 3959 Message: 3965

Its still transmitting, but bad GPS checksum. I dont know if thats only on the 2m transmitter or if it will carry over to the 30m if/when it gets out over the ocean.

We'll know when it gets there.

Greg

3966. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 04:49:14 UTC
From: Mike Coffey
Topic: 3959 Message: 3966

It is unlikely that the HF transmitter will come on. It won't activate unless the GPS bad data condition is corrected. At this stage, the most probable outcome will be that the balloon will fly on, passing out of the US in the early hours of the morning, at which point its VHF transmitter will turn off. The HF transmitter will not activate if there is no GPS data, and at sunset on the 15th, the balloon will fail to ballast and descend to the ocean surface, bringing the flight to a close. Any stations who are able are requested to listen on our HF frequency in case the system does recover.

73,
Mike
KJ4Z

Greg Williams wrote:
>
> Its still transmitting, but bad GPS checksum. I dont know if thats only
> on the 2m transmitter or if it will carry over to the 30m if/when it
> gets out over the ocean.
>
> We'll know when it gets there.
>
> Greg
>
>

3967. Re: [GPSL] Spirit of Knoxville appears to be airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 05:56:51 UTC
From: Mike Manes
Topic: 3959 Message: 3967

I've never seen one, but the checksum is intended to detect noise on the NMEA serial data link. Could be RF on the line, but also could be a funky GPS or serial port on the 'puter end. It could also be a noisy radio downlink, but that's normally indicated by a packet CRC error.

As Zack noted, not a good sign.

73 de Mike W5VSI

Robert Rochte wrote:
> Is there a "typical" cause for such checksum errors??
>
> 73,
> Robert KC8UCH
>
>
> On 1/14/08, *Mark Conner* <mconner1@...
> <mailto:mconner1@...>> wrote:
>
> Several successive "bad checksum on GPS data" reports in last half
> hour. Not a good sign.........
>
> 73 de Mark N9XTN
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3968. Spirit of Knoxville appears to be on its own up there

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 05:58:46 UTC
From: Dan Bowen
Topic: 3959 Message: 3968

Looks like our Mark Caviezel ZP balloon is faring better than our GPS, according to the digipeaters it is coming through, it appears to be nearing the atlantic coast after 3 hours. This seems to correspond with winds near 30,000 ft, according to HYSPLIT. If the balloon envelope alone can maintain a float until the next sunset, it is is possible that it may just be within VHF range of Newfoundland at sunset tomorrow evening.

Having programmed the flight computer, the VHF will not ever turn off in this condition, it will continue to transmit the error message every 5 minutes until the GPS recovers or fully dies. (Yes, it would have been nice to have the HF sending that too, but on that freq it could have been a pink slip here in the states) The flight computer can't tell what time it is nor where it is without valid GPS data.

Not sure if it is a GPS failure or flight computer failure, we'll run some software simulations over the next few days and see what there is to be learned.

73,
Dan
K2VOL
UTARC

On Jan 14, 2008, at 11:49 PM, Mike Coffey wrote:

> It is unlikely that the HF transmitter will come on. It won't activate
> unless the GPS bad data condition is corrected. At this stage, the
> most
> probable outcome will be that the balloon will fly on, passing out of
> the US in the early hours of the morning, at which point its VHF
> transmitter will turn off. The HF transmitter will not activate if
> there
> is no GPS data, and at sunset on the 15th, the balloon will fail to
> ballast and descend to the ocean surface, bringing the flight to a
> close. Any stations who are able are requested to listen on our HF
> frequency in case the system does recover.
>
> 73,
> Mike
> KJ4Z
>
> Greg Williams wrote:
> >
> > Its still transmitting, but bad GPS checksum. I dont know if
> thats only

> > on the 2m transmitter or if it will carry over to the 30m if/when it
> > gets out over the ocean.
> >
> > We'll know when it gets there.
> >
> > Greg
> >
> >
>
>
>

Dan Bowen

Program Manager
UTARC Experimental High Altitude Balloon Program
University of Tennessee Amateur Radio Club
Knoxville, TN

3969. Re: [UTARC Chat] Spirit of Knoxville appears to be on its own up there

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-15 15:28:30 UTC
From: K. Mark Caviezel
Topic: 3959 Message: 3969

Ah. Nuts.

--- Dan Bowen <dbowen1@...> wrote:

> Looks like our Mark Caviezel ZP balloon is faring
> better than our
> GPS, according to the digipeaters it is coming
> through, it appears to
> be nearing the atlantic coast after 3 hours. This
> seems to correspond
> with winds near 30,000 ft, according to HYSPLIT. If
> the balloon
> envelope alone can maintain a float until the next
> sunset, it is is
> possible that it may just be within VHF range of
> Newfoundland at
> sunset tomorrow evening.
>
> Having programmed the flight computer, the VHF will
> not ever turn off
> in this condition, it will continue to transmit the
> error message
> every 5 minutes until the GPS recovers or fully
> dies. (Yes, it would
> have been nice to have the HF sending that too, but
> on that freq it
> could have been a pink slip here in the states) The
> flight computer
> can't tell what time it is nor where it is without
> valid GPS data.
>
> Not sure if it is a GPS failure or flight computer
> failure, we'll run
> some software simulations over the next few days and
> see what there
> is to be learned.
>
> 73,
> Dan
> K2VOL
> UTARC
>
> On Jan 14, 2008, at 11:49 PM, Mike Coffey wrote:
>
> > It is unlikely that the HF transmitter will come

> on. It won't activate
> > unless the GPS bad data condition is corrected. At
> this stage, the
> > most
> > probable outcome will be that the balloon will fly
> on, passing out of
> > the US in the early hours of the morning, at which
> point its VHF
> > transmitter will turn off. The HF transmitter will
> not activate if
> > there
> > is no GPS data, and at sunset on the 15th, the
> balloon will fail to
> > ballast and descend to the ocean surface, bringing
> the flight to a
> > close. Any stations who are able are requested to
> listen on our HF
> > frequency in case the system does recover.
> >
> > 73,
> > Mike
> > KJ4Z
> >
> > Greg Williams wrote:
> > >
> > > Its still transmitting, but bad GPS checksum. I
> dont know if
> > thats only
> > > on the 2m transmitter or if it will carry over
> to the 30m if/when it
> > > gets out over the ocean.
> > >
> > > We'll know when it gets there.
> > >
> > > Greg
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>
> Dan Bowen
>
> Program Manager
> UTARC Experimental High Altitude Balloon Program
> University of Tennessee Amateur Radio Club
> Knoxville, TN
>

>
> > _____
> chat site list
> chat@...
> http://deathstar.asa.utk.edu/mailman/listinfo/chat

3970. request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-16 14:56:04 UTC
From: K. Mark Caviezel
Topic: 3970 Message: 3970

All:
I haven't kept up with what the ARHAB state of the art for airborne GPS units is. What units are being used now days? Factors of merit: low power consumption, cheap, lightweight, works at ARHAB altitudes, integrated antenna.
I'm considering getting some Garmin 18LVCs which at 5V/0.060A, $60, about 2 oz seems like a real contender but I know that unit has been on the market for several years now, maybe there is something better out there. Notionally, I'm thinking about flights in the 2-5 day range, so power consumption is a bigger driver in this application than short duration sounding balloon flights.

Your detailed suggestions are welcome.

- Mark ng0x

3971. TU Balloon flights 57 and 58

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-21 12:33:57 UTC
From: Patterson, David
Topic: 3971 Message: 3971

Taylor University's High Altitude Research Platform is flying HARP 57 and 58 today; callsigns are kb9znz-11 (currently in the air) and kb9znz-12 (launch in about 30 minutes). Here's hoping for an easy recovery!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

3972. TU HARP 58 away

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-21 14:20:42 UTC
From: Patterson, David
Topic: 3972 Message: 3972

We're running a little late, but Taylor University's High Altitude Research Platform's 58th flight is underway; callsign kb9znz-12. kb9znz-11 is down, and we are within about 25 minutes of recovery. The area looks pretty decent, and we're in the landing zone for the -12 flight!

Live from the TU HARP Tracking / Recovery Team, just outside of Marysville, OH,
- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

3973. BASE 20 located!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-21 16:46:56 UTC
From: BASE
Topic: 3973 Message: 3973

Dear friends,

BASE 20 has been located on the beach in Port Burwell
Provincial Park in Ontario. A Canadian man walking
the beach discovered the payloads on Saturday.

After reassuring him that the only liquid in the pods
was Lake Erie water, he is returning to the site to
pick up the system and return it to me.

Thanks to everyone that followed the flight,
especially Harry for his efforts to contact his friend
in St. Thomas.

Howard

Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

3974. Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-21 20:13:06 UTC
From: saxdru
Topic: 3970 Message: 3974

The GPS 18 LVC (OEM) has worked flawlessly out here in Maryland (we have ~4 of them). I'm sure its obvious, but cut most of the wiring off as it weighs about as much as the unit itself (Garmin will still RMA if you cut the wires).

It seems to preform better than the other units we have tried as far as acquisition time, so it may be possible to turn it on for 3 min twice an hour and either sleep or unpower it for the other 90% of the flight. We have not used it in this capacity, but have a 15-20 hour flight this summer we are working towards.

Also, it works great on 3 L91 lithium AA batteries.

-Dru Ellsberry KB3MRQ
MdSGC/BPP

--- In GPSL@yahoogroups.com, "K. Mark Caviezel" <kmcaviezel@...> wrote:
>
> All:
> I haven't kept up with what the ARHAB state of the art
> for airborne GPS units is. What units are being used
> now days? Factors of merit: low power consumption,
> cheap, lightweight, works at ARHAB altitudes,
> integrated antenna.
> I'm considering getting some Garmin 18LVCs which at
> 5V/0.060A, $60, about 2 oz seems like a real contender
> but I know that unit has been on the market for
> several years now, maybe there is something better out
> there. Notionally, I'm thinking about flights in the
> 2-5 day range, so power consumption is a bigger driver
> in this application than short duration sounding
> balloon flights.
>
> Your detailed suggestions are welcome.
>
> - Mark ng0x
>

3975. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-21 20:35:38 UTC
From: Mark Conner
Topic: 3970 Message: 3975

Ralph W0RPK maintains this page of GPS receivers that have passed or failed the 60kft test:
http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

One note regarding the GPS-18 is that it seems to be more sensitive to RFI. I flew one in the same payload as a digital camera and the camera desensed the GPS unit by around 10dB or so. The GPS-35 I use is practically unaffected by the camera, but the tradeoff is that it's an older design and more of a power hog (about 130 mA at 5V).

The Motorola OnCore M12 is a pretty good board-level unit that works at 60kft+ and has good power consumption. The main issue is that you have to get the battery backup unit if you want it to power up with your configuration (output type, baud rate) intact. The default is their binary mode. This could be an issue in a long-duration flight where you may lose battery power at night and then regain it the next day with warming. The backup battery could fail too in such conditions.

That actually is something you may want to fully test on any GPS for a long-duration flight - will it retain the desired settings if thorougly frozen and powered off? Most of us flying daytime flights don't fully exercise these conditions.

73 de Mark N9XTN

> --- In GPSL@yahoogroups.com, "K. Mark Caviezel" <kmcaviezel@...>
> wrote:>
> > All:
> > I haven't kept up with what the ARHAB state of the art
> > for airborne GPS units is. What units are being used
> > now days? Factors of merit: low power consumption,
> > cheap, lightweight, works at ARHAB altitudes,
> > integrated antenna.
> > I'm considering getting some Garmin 18LVCs which at
> > 5V/0.060A, $60, about 2 oz seems like a real contender
> > but I know that unit has been on the market for
> > several years now, maybe there is something better out
> > there. Notionally, I'm thinking about flights in the
> > 2-5 day range, so power consumption is a bigger driver
> > in this application than short duration sounding
> > balloon flights.
> >
> > Your detailed suggestions are welcome.
> >
> > - Mark ng0x
> >

3976. Re: [GPSL] BASE 20 located!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 00:05:56 UTC
From: Mike Manes
Topic: 3973 Message: 3976

Congratulations! That counts, technically, as a recovery for
Ralph's archives.

And it sure does highlight the value of including a "return to
sender" contact info on the payloads!

73 de Mike W5VSI, EOSS

BASE wrote:
> Dear friends,
>
> BASE 20 has been located on the beach in Port Burwell
> Provincial Park in Ontario. A Canadian man walking
> the beach discovered the payloads on Saturday.
>
> After reassuring him that the only liquid in the pods
> was Lake Erie water, he is returning to the site to
> pick up the system and return it to me.
>
> Thanks to everyone that followed the flight,
> especially Harry for his efforts to contact his friend
> in St. Thomas.
>
> Howard
>
>
> ~~~~~~
> Looking for last minute shopping deals?
> Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3977. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 00:49:18 UTC
From: Mike Manes
Topic: 3970 Message: 3977

I'd think a CR123 LiSO2 cell would keep the GPS CMOS alive nicely even down to -40C, which shouldn't be too challenging an interior temp to stay above. The CR123's we use to power our NiCr cutdown burners have little thermal insulation and zero power dissipation inside the parachute canopy, and they've always fired over 5A on command.

Whether the GPS will operate that cold is another issue. Although the GPS engine could be kept above its min ambient, a GPS patch with a preamp may not enjoy such a comfy environment, especially if it's mounted outside the payload housing. A passive antenna would be preferable, I'd think.

73 de Mike W5VSI

Mark Conner wrote:
> Ralph W0RPK maintains this page of GPS receivers that have passed or failed the 60kft test:
> http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm
>
> One note regarding the GPS-18 is that it seems to be more sensitive to RFI. I flew one in the same payload as a digital camera and the camera desensed the GPS unit by around 10dB or so. The GPS-35 I use is practically unaffected by the camera, but the tradeoff is that it's an older design and more of a power hog (about 130 mA at 5V).
>
> The Motorola OnCore M12 is a pretty good board-level unit that works at 60kft+ and has good power consumption. The main issue is that you have to get the battery backup unit if you want it to power up with your configuration (output type, baud rate) intact. The default is their binary mode. This could be an issue in a long-duration flight where you may lose battery power at night and then regain it the next day with warming. The backup battery could fail too in such conditions.
>
> That actually is something you may want to fully test on any GPS for a long-duration flight - will it retain the desired settings if thorougly frozen and powered off? Most of us flying daytime flights don't fully exercise these conditions.
>
> 73 de Mark N9XTN
>
>
>> --- In GPSL@yahoogroups.com, "K. Mark Caviezel" <kmcaviezel@...>
>> wrote:>
>>> All:
>>> I haven't kept up with what the ARHAB state of the art
>>> for airborne GPS units is. What units are being used
>>> now days? Factors of merit: low power consumption,
>>> cheap, lightweight, works at ARHAB altitudes,
>>> integrated antenna.

>>> I'm considering getting some Garmin 18LVCs which at
>>> 5V/0.060A, $60, about 2 oz seems like a real contender
>>> but I know that unit has been on the market for
>>> several years now, maybe there is something better out
>>> there. Notionally, I'm thinking about flights in the
>>> 2-5 day range, so power consumption is a bigger driver
>>> in this application than short duration sounding
>>> balloon flights.
>>>
>>> Your detailed suggestions are welcome.
>>>
>>> - Mark ng0x
>>>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3978. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 14:55:41 UTC
From: PAUL VERHAGE
Topic: 3970 Message: 3978

3/4" thick Styrofoam is transparent to GPS signals, so you can keep the GPS inside the capsule but near the top of it to stay warm.

Paul

>>> Mike Manes <mrmanes@...> 1/21/2008 5:49 PM >>>
I'd think a CR123 LiSO2 cell would keep the GPS CMOS alive nicely even down to -40C, which shouldn't be too challenging an interior temp to stay above. The CR123's we use to power our NiCr cutdown burners have little thermal insulation and zero power dissipation inside the parachute canopy, and they've always fired over 5A on command.

Whether the GPS will operate that cold is another issue. Although the GPS engine could be kept above its min ambient, a GPS patch with a preamp may not enjoy such a comfy environment, especially if it's mounted outside the payload housing. A passive antenna would be preferable, I'd think.

73 de Mike W5VSI

Mark Conner wrote:
> Ralph W0RPK maintains this page of GPS receivers that have passed or failed the 60kft test:
> http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm
>
> One note regarding the GPS-18 is that it seems to be more sensitive to RFI. I flew one in the same payload as a digital camera and the camera desensed the GPS unit by around 10dB or so. The GPS-35 I use is practically unaffected by the camera, but the tradeoff is that it's an older design and more of a power hog (about 130 mA at 5V).
>
> The Motorola OnCore M12 is a pretty good board-level unit that works at 60kft+ and has good power consumption. The main issue is that you have to get the battery backup unit if you want it to power up with your configuration (output type, baud rate) intact. The default is their binary mode. This could be an issue in a long-duration flight where you may lose battery power at night and then regain it the next day with warming. The backup battery could fail too in such conditions.
>
> That actually is something you may want to fully test on any GPS for a long-duration flight - will it retain the desired settings if thorougly frozen and powered off? Most of us flying daytime flights don't fully exercise these conditions.
>
> 73 de Mark N9XTN
>
>
>> --- In GPSL@yahoogroups.com, "K. Mark Caviezel" <kmcaviezel@...>
>> wrote:>

>>> All:
>>> I haven't kept up with what the ARHAB state of the art
>>> for airborne GPS units is. What units are being used
>>> now days? Factors of merit: low power consumption,
>>> cheap, lightweight, works at ARHAB altitudes,
>>> integrated antenna.
>>> I'm considering getting some Garmin 18LVCs which at
>>> 5V/0.060A, $60, about 2 oz seems like a real contender
>>> but I know that unit has been on the market for
>>> several years now, maybe there is something better out
>>> there. Notionally, I'm thinking about flights in the
>>> 2-5 day range, so power consumption is a bigger driver
>>> in this application than short duration sounding
>>> balloon flights.
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>>> Your detailed suggestions are welcome.
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>>> - Mark ng0x
>>>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

3979. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 14:56:31 UTC
From: Joe
Topic: 3970 Message: 3979

saxdru wrote:

>The GPS 18 LVC (OEM) has worked flawlessly out here in Maryland (we
>have ~4 of them).
>
>
>
But, this all depends on the payload use. We here at NSS learned this the hard way last fall. This unit does NOT like 439.25 ATV signals. We found this out from others after the flight also.

Ralph? how about a sub catagory of the GPS list, that gives flight results. like i know we have the list of what ones work above "X" altitude. but maybe a list of what ones don't like certain modes or freqs. and or power levels etc?

Joe

3980. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 15:41:39 UTC
From: Ralph Wallio, W0RPK
Topic: 3970 Message: 3980

Joe -- This would be interesting information but it is anecdotal in nature, very time consuming to
collect and very difficult if not impossible to maintain in a complete balanced view. I would add
brief results from specific lab testing which takes modes, bandwidths, power levels, radiation
patterns, proximity, et al, into account. The complete story would have to be in group ARHAB web
pages. -- Ralph W0RPK

----- Original Message -----
From: "Joe" <nss@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, January 22, 2008 08:56
Subject: Re: [GPSL] Re: request for advice: GPS units for ARHAB

Ralph? how about a sub catagory of the GPS list, that gives flight
results. like i know we have the list of what ones work above "X"
altitude. but maybe a list of what ones don't like certain modes or
freqs. and or power levels etc?

Joe

3981. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 15:53:56 UTC
From: Joe
Topic: 3970 Message: 3981

Ralph Wallio, W0RPK wrote:

>Joe -- This would be interesting information but it is anecdotal in nature, very time consuming to
>collect and very difficult if not impossible to maintain in a complete balanced view.
>
I can understand that.

> I would add
>brief results from specific lab testing which takes modes, bandwidths, power levels, radiation
>patterns, proximity, et al, into account.
>
Maybe a "This is what happened area?

Reason stating, is as soon as i made a comment about this GPS locking up, (probably desence) Bill ELK knew that that unit does not like 439.25 ATV. and it has failed on other flights with other groups when used on a video flight. It would be something that would have been good to know beforehand. that others have had problems with it, and it would pop up a red flag. as something to pay super close attention to. After 45 flights this is the first time we have ever had a problem with any GPS unit we have ever used.

Just a thought

> The complete story would have to be in group ARHAB web
>pages. -- Ralph W0RPK
>
>
>
>
>
>----- Original Message -----
>From: "Joe" <nss@...>
>To: <GPSL@yahoogroups.com>
>Sent: Tuesday, January 22, 2008 08:56
>Subject: Re: [GPSL] Re: request for advice: GPS units for ARHAB
>
>
>
>Ralph? how about a sub catagory of the GPS list, that gives flight
>results. like i know we have the list of what ones work above "X"
>altitude. but maybe a list of what ones don't like certain modes or
>freqs. and or power levels etc?
>

>Joe
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>
>Yahoo! Groups Links
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3982. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 16:00:25 UTC
From: Michael Gray
Topic: 3970 Message: 3982

Another contributing factor to jamming problems is an active antenna.
Strong out of band signals can cause intermod problems with the antenna
LNA. The higher voltage/current antennas generally perform better than
the newer 3VDC low current antennas. It all comes down to the IP3 of the
LNA. A good quality GPS antenna with filtering really helps. The $10
Chi-Com specials are pretty poor.

On Tue, 22 Jan 2008, Ralph Wallio, W0RPK wrote:

> Joe -- This would be interesting information but it is anecdotal in nature, very time
consuming to
> collect and very difficult if not impossible to maintain in a complete balanced view. I
would add
> brief results from specific lab testing which takes modes, bandwidths, power levels,
radiation
> patterns, proximity, et al, into account. The complete story would have to be in group
ARHAB web
> pages. -- Ralph W0RPK
>
>
>
>
>
> ----- Original Message -----
> From: "Joe" <nss@...>
> To: <GPSL@yahoogroups.com>
> Sent: Tuesday, January 22, 2008 08:56
> Subject: Re: [GPSL] Re: request for advice: GPS units for ARHAB
>
>
>
> Ralph? how about a sub catagory of the GPS list, that gives flight
> results. like i know we have the list of what ones work above "X"
> altitude. but maybe a list of what ones don't like certain modes or
> freqs. and or power levels etc?
>
> Joe
>
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>
> Yahoo! Groups Links
>
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3983. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 16:58:30 UTC
From: Mark Conner
Topic: 3970 Message: 3983

While anecdotal, I think there seems to be enough evidence that the GPS-18 is more touchy than 'usual' about RFI. I agree that for many units where boards, antennas, etc., may vary, it'd be too hard to track all the permutations. But for integral units like the all-in-one mice and handheld units, it'd be a worthwhile footnote to caution the operator to fully investigate RFI issues where they've been reported on multiple occasions.

I didn't realize until reading the last few posts that the GPS-18 also suffered from problems due to UHF ATV transmissions. That paralleled my experience with degraded performance in proximity to a digital camera. I now have mine relegated to the backup payload in a somewhat more benign RF environment (appears infrequent 2m transmissions don't upset it). I'll definitely keep the UHF ATV experiences in mind with this unit. Probably would not be good to pair it with a 70cm simplex repeater anymore.

73 de Mark N9XTN

----- Original Message -----
From: Joe <nss@...>
Date: Tuesday, January 22, 2008 9:55 am
Subject: Re: [GPSL] Re: request for advice: GPS units for ARHAB
To: GPSL@yahoogroups.com

>
>
> Ralph Wallio, W0RPK wrote:
>
> >Joe -- This would be interesting information but it is anecdotal
> in nature, very time consuming to
> >collect and very difficult if not impossible to maintain in a
> complete balanced view.
> >
> I can understand that.
>

3984. Re: [GPSL] BASE 20 located!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 17:06:09 UTC
From: Mark Garrett
Topic: 3973 Message: 3984

This is truly amazing that Lake Erie gave the package back and so quickly. Would love to see photos and a post mortum on what can be salvaged.

Mark Garrett, KA9SZX

BASE wrote:
> Dear friends,
>
> BASE 20 has been located on the beach in Port Burwell
> Provincial Park in Ontario. A Canadian man walking
> the beach discovered the payloads on Saturday.
>
> After reassuring him that the only liquid in the pods
> was Lake Erie water, he is returning to the site to
> pick up the system and return it to me.
>
> Thanks to everyone that followed the flight,
> especially Harry for his efforts to contact his friend
> in St. Thomas.
>
> Howard
>
>
> _____ _____ _____ _____ _____ _____ _
> Looking for last minute shopping deals?
> Find them fast with Yahoo! Search. http://tools. search.yahoo. com/newsearch/ category.
php?category= shopping
>
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> Yahoo! Groups Links
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>

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

_____
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http://tools.search.yahoo.com/newsearch/category.php?category=shopping

3985. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 19:42:25 UTC
From: wb8elk@aol.com
Topic: 3970 Message: 3985

I've had great luck with using the Motorola VP Oncore with 70 cm ATV....and the Garmin GPS-35 as well. However, the GPS-18 LVC takes some work to get it to work in that environment.....we did manage to get it to work on the last UAH Balloonsat by putting it about 3 feet above the ATV transmitter section with aluminum foil between them....I wasn't able to check to measure just how much desense we were getting but it did perform well throughout that flight.

The following output sentence might be helpful to determine if you have desense problems with your GPS receiver or antenna....see if the signal to noise values on the tracked satellites change dramatically when turning on other transmitters or equipment in your payload:

The $GPGSV message field 7 gives you the signal to noise ratio on tracked satellites.

In addition:
The Garmin Specific $PGRMT sentence will give you the GPS unit's internal temperature....since the GPS unit is often placed right out in the open....this would be a good parameter to measure particularly if doing a night flight.

- Bill WB8ELK

**********Start the year off right. Easy ways to stay in shape.
http://body.aol.com/fitness/winter-exercise?NCID=aolcmp00300000002489

3986. Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 20:54:11 UTC
From: Hank
Topic: 3970 Message: 3986

> A good quality GPS antenna with filtering really helps. The $10
> Chi-Com specials are pretty poor.

This whole thread about GPS performance is a real good one.

Mike,

Could you provide some context and specifics about the above
two observations, please?

Anecdotes, whether this was something you or someone you know
experienced, whether it was on board a balloon, stuff like that.

Hank

3987. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 21:11:45 UTC
From: Mike Manes
Topic: 3970 Message: 3987

Our GPS antennas are mounted inside the top of foamcore enclosures,
and they do work. But we have observed some loss of signal quality -
not enough to lose 3D lock, however. Past performance does not
guarantee future results, however :=}. So I was reluctant to
suggest that, especially since we've not verified that an enclosed
GPS antenna/rcvr in fact does operate OK overnight.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> 3/4" thick Styrofoam is transparent to GPS signals, so you can keep the
> GPS inside the capsule but near the top of it to stay warm.
>
> Paul
>
> >>> Mike Manes <mrmanes@...> 1/21/2008 5:49 PM >>>
> I'd think a CR123 LiSO2 cell would keep the GPS CMOS alive nicely even
> down to -40C, which shouldn't be too challenging an interior temp to
> stay above. The CR123's we use to power our NiCr cutdown burners have
> little thermal insulation and zero power dissipation inside the parachute
> canopy, and they've always fired over 5A on command.
>
> Whether the GPS will operate that cold is another issue. Although the
> GPS engine could be kept above its min ambient, a GPS patch with a
> preamp may not enjoy such a comfy environment, especially if it's
> mounted outside the payload housing. A passive antenna would be
> preferable, I'd think.
>
> 73 de Mike W5VSI
>
> Mark Conner wrote:
> > Ralph W0RPK maintains this page of GPS receivers that have passed or
> failed the 60kft test:
> > http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm
> >
> > One note regarding the GPS-18 is that it seems to be more sensitive
> to RFI. I flew one in the same payload as a digital camera and the
> camera desensed the GPS unit by around 10dB or so. The GPS-35 I use is
> practically unaffected by the camera, but the tradeoff is that it's an
> older design and more of a power hog (about 130 mA at 5V).
> >
> > The Motorola OnCore M12 is a pretty good board-level unit that works
> at 60kft+ and has good power consumption. The main issue is that you
> have to get the battery backup unit if you want it to power up with your
> configuration (output type, baud rate) intact. The default is their

> binary mode. This could be an issue in a long-duration flight where you
> may lose battery power at night and then regain it the next day with
> warming. The backup battery could fail too in such conditions.
> >
> > That actually is something you may want to fully test on any GPS for
> a long-duration flight - will it retain the desired settings if
> thorougly frozen and powered off? Most of us flying daytime flights
> don't fully exercise these conditions.
> >
> > 73 de Mark N9XTN
> >
> >
> >> --- In GPSL@yahoogroups.com, "K. Mark Caviezel" <kmcaviezel@...>
> >> wrote:>
> >>> All:
> >>> I haven't kept up with what the ARHAB state of the art
> >>> for airborne GPS units is. What units are being used
> >>> now days? Factors of merit: low power consumption,
> >>> cheap, lightweight, works at ARHAB altitudes,
> >>> integrated antenna.
> >>> I'm considering getting some Garmin 18LVCs which at
> >>> 5V/0.060A, $60, about 2 oz seems like a real contender
> >>> but I know that unit has been on the market for
> >>> several years now, maybe there is something better out
> >>> there. Notionally, I'm thinking about flights in the
> >>> 2-5 day range, so power consumption is a bigger driver
> >>> in this application than short duration sounding
> >>> balloon flights.
> >>>
> >>> Your detailed suggestions are welcome.
> >>>
> >>> - Mark ng0x
> >>>
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> >
> > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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> Yahoo! Groups Links

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3988. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 21:17:23 UTC
From: Mike Manes
Topic: 3970 Message: 3988

EOSS had the same problem when our 426.25 ATV xmtr shared the same enclosure as the GPS. Problem solved when we put 'em in separate packages separated by 10-15 ft of payload line. Steve KC0YA proved that we could put GPS-derived data on the ATV downlink overlay using a 900 MHz Zigbee link between the payloads - but 433 Mhz Zigbee went belly up when the ATV was QRV, even 10 ft away.

We think the GPS QRM is 3rd harmonic or simple front end desense.

73 de Mike W5VSI

Joe wrote:
>
> saxdru wrote:
>
>> The GPS 18 LVC (OEM) has worked flawlessly out here in Maryland (we
>> have ~4 of them).
>>
>>
>>
> But, this all depends on the payload use. We here at NSS learned this
> the hard way last fall. This unit does NOT like 439.25 ATV signals. We
> found this out from others after the flight also.
>
> Ralph? how about a sub catagory of the GPS list, that gives flight
> results. like i know we have the list of what ones work above "X"
> altitude. but maybe a list of what ones don't like certain modes or
> freqs. and or power levels etc?
>
> Joe
>
>
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3989. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 21:24:06 UTC
From: Mike Manes
Topic: 3970 Message: 3989

Fortunately, ATV QRM to GPS can generally be evaluated on the deck
by looking at the NMEA strings that show signal quality. Compare that
data with ATV on and off, in a reasonable replica of the flight config,
of course.

73 de Mike W5VSI

Mark Conner wrote:
> While anecdotal, I think there seems to be enough evidence that the GPS-18 is more touchy than 'usual' about RFI. I agree that for many units where boards, antennas, etc., may vary, it'd be too hard to track all the permutations. But for integral units like the all-in-one mice and handheld units, it'd be a worthwhile footnote to caution the operator to fully investigate RFI issues where they've been reported on multiple occasions.
>
> I didn't realize until reading the last few posts that the GPS-18 also suffered from problems due to UHF ATV transmissions. That paralleled my experience with degraded performance in proximity to a digital camera. I now have mine relegated to the backup payload in a somewhat more benign RF environment (appears infrequent 2m transmissions don't upset it). I'll definitely keep the UHF ATV experiences in mind with this unit. Probably would not be good to pair it with a 70cm simplex repeater anymore.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Joe <nss@...>
> Date: Tuesday, January 22, 2008 9:55 am
> Subject: Re: [GPSL] Re: request for advice: GPS units for ARHAB
> To: GPSL@yahoogroups.com
>
>>
>> Ralph Wallio, W0RPK wrote:
>>
>>> Joe -- This would be interesting information but it is anecdotal
>> in nature, very time consuming to
>>> collect and very difficult if not impossible to maintain in a
>> complete balanced view.
>> I can understand that.
>>
>
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3990. Re: [GPSL] Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 21:36:38 UTC
From: Mike Manes
Topic: 3970 Message: 3990

Mike Who?
73 de Mike W5VSI, EOSS

Hank wrote:
>> A good quality GPS antenna with filtering really helps. The $10
>> Chi-Com specials are pretty poor.
>
> This whole thread about GPS performance is a real good one.
>
> Mike,
>
> Could you provide some context and specifics about the above
> two observations, please?
>
> Anecdotes, whether this was something you or someone you know
> experienced, whether it was on board a balloon, stuff like that.
>
> Hank
>
>
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>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3991. Cold Weather testing For GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-22 22:55:56 UTC
From: Dan Wietchy
Topic: 3970 Message: 3991

If you folks are interested in testing GPS performance in cold weather, let me know. I live in Fairbanks Alaska where the winter temperatures commonly go to minus 40 below (-40F). I can open my front door and set a GPS down on my deck and monitor "real time" performance. Ditto for all kinds of battery life too. I can tell you exactly how something behaves during a 100K balloon flight while keeping both feet on the ground.

Dan

Mike Manes <mrmanes@...> wrote: Mike Who?
73 de Mike W5VSI, EOSS

Hank wrote:
>> A good quality GPS antenna with filtering really helps. The $10
>> Chi-Com specials are pretty poor.
>
> This whole thread about GPS performance is a real good one.
>
> Mike,
>
> Could you provide some context and specifics about the above
> two observations, please?
>
> Anecdotes, whether this was something you or someone you know
> experienced, whether it was on board a balloon, stuff like that.
>
> Hank
>
>
>
>
> Yahoo! Groups Links
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

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3992. Re: [GPSL] Cold Weather testing For GPS

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-23 01:37:45 UTC
From: Mike Manes
Topic: 3970 Message: 3992

Dry ice (solid CO2) can get stuff down to -80C inside a beer cooler with
a lot lower shipping cost. Thanks for offering, Dan, and keep your socks
on!

73 de Mike W5VSI, EOSS

Dan Wietchy wrote:
> If you folks are interested in testing GPS performance in cold weather,
> let me know. I live in Fairbanks Alaska where the winter temperatures
> commonly go to minus 40 below (-40F). I can open my front door and set a
> GPS down on my deck and monitor "real time" performance. Ditto for all
> kinds of battery life too. I can tell you exactly how something behaves
> during a 100K balloon flight while keeping both feet on the ground.
>
> Dan
>
> */Mike Manes <mrmanes@...>/* wrote:
>
> Mike Who?
> 73 de Mike W5VSI, EOSS
>
> Hank wrote:
> >> A good quality GPS antenna with filtering really helps. The $10
> >> Chi-Com specials are pretty poor.
> > >
> > > This whole thread about GPS performance is a real good one.
> > >
> > > Mike,
> > >
> > > Could you provide some context and specifics about the above
> > > two observations, please?
> > >
> > > Anecdotes, whether this was something you or someone you know
> > > experienced, whether it was on board a balloon, stuff like that.
> > >
> > > Hank
> > >
> > >
> > >
> > >
> > > Yahoo! Groups Links
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> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> ---
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> Search.
> <http://us.rd.yahoo.com/evt=51734/*http://tools.search.yahoo.com/newsearch/category.php?
category=shopping>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

3993. A very succesful Antarctic balloon campaign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-23 20:50:44 UTC
From: Luis Eduardo Pacheco
Topic: 3993 Message: 3993
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

3994. Re: request for advice: GPS units for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-24 17:57:03 UTC
From: saxdru
Topic: 3970 Message: 3994

We have never used ATV so I can not speak to the issues on 70cm. We have however used it in close proximity to 2m (APRS), 900 MHz, and 2.4 GHz signals along with some modern metal shelled cameras without issues.

-Dru KB3MRQ

--- In GPSL@yahoogroups.com, "saxdru" <dru@...> wrote:
>
> The GPS 18 LVC (OEM) has worked flawlessly out here in Maryland (we
> have ~4 of them). I'm sure its obvious, but cut most of the wiring
> off as it weighs about as much as the unit itself (Garmin will still
> RMA if you cut the wires).
>
> It seems to preform better than the other units we have tried as far
> as acquisition time, so it may be possible to turn it on for 3 min
> twice an hour and either sleep or unpower it for the other 90% of the
> flight. We have not used it in this capacity, but have a 15-20 hour
> flight this summer we are working towards.
>
> Also, it works great on 3 L91 lithium AA batteries.
>
> -Dru Ellsberry KB3MRQ
> MdSGC/BPP
>
> --- In GPSL@yahoogroups.com, "K. Mark Caviezel" <kmcaviezel@> wrote:
> >
> > All:
> > I haven't kept up with what the ARHAB state of the art
> > for airborne GPS units is. What units are being used
> > now days? Factors of merit: low power consumption,
> > cheap, lightweight, works at ARHAB altitudes,
> > integrated antenna.
> > I'm considering getting some Garmin 18LVCs which at
> > 5V/0.060A, $60, about 2 oz seems like a real contender
> > but I know that unit has been on the market for
> > several years now, maybe there is something better out
> > there. Notionally, I'm thinking about flights in the
> > 2-5 day range, so power consumption is a bigger driver
> > in this application than short duration sounding
> > balloon flights.
> >
> > Your detailed suggestions are welcome.
> >
> > - Mark ng0x
> >

>

3995. GPSL 2008 Conference, First Call for Presentations...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-30 14:05:58 UTC
From: Keith Kaiser
Topic: 3995 Message: 3995

Aeronauts,

In order to plan for the best possible GPSL experience I would like to ask those interested in doing a presentation and those interested in having a static display to please give me a heads up. I don't need your paper yet but if you have some idea how much time you would like 30 minutes, 60 minutes, etc., let me know that and maybe the subject of your talk. If you are interested in having a static display which will be up Thursday afternoon until Friday or maybe even Saturday afternoon please let me know about that too. Specifically I would like to know how much room you think you need and again the subject matter if possible.

Please send this information to keith.kaiser@...

Dates:
July 31, 2008, Thursday @ 1:00pm static displays open
July 31, 2008, Thursday @ 9:00pm tour of Pillsbury Observatory
Aug 1, 2008, Friday @ ?? Presentations
Lunch
Prelaunch Briefing
Aug 2, 2008, Saturday @ ?? Launch and recovery
Lunch
Post launch briefing
Dinner
Fun
Aug 3, 2008, Sunday @ ?? Reserved as the weather day, or going home

3996. Re: [GPSL] GPSL 2008 Conference, First Call for Presentations...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-30 14:36:58 UTC
From: Joe Lynch
Topic: 3995 Message: 3996

Hi Keith, et al,

I would like to give publicity for the call for presentations via CQ and CQ VHF magazines. Also, I am sure that there are others who would like to publicize the presentations part of the event. Keven, in order for us to give proper publicity and meet our respective editorial deadlines, please give us a cut off date for getting the papers to you. Thank you.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

3997. Re: [GPSL] GPSL 2008 Conference, First Call for Presentations...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-30 16:05:26 UTC
From: Michael Gray
Topic: 3995 Message: 3997

Where is Pillsbury Observatory (City, State)/

Thanks

On Wed, 30 Jan 2008, Keith Kaiser wrote:

> Aeronauts,
>
> In order to plan for the best possible GPSL experience I would like to
> ask those interested in doing a presentation and those interested in
> having a static display to please give me a heads up. I don't need
> your paper yet but if you have some idea how much time you would like
> 30 minutes, 60 minutes, etc., let me know that and maybe the subject
> of your talk. If you are interested in having a static display which
> will be up Thursday afternoon until Friday or maybe even Saturday
> afternoon please let me know about that too. Specifically I would like
> to know how much room you think you need and again the subject matter
> if possible.
>
> Please send this information to keith.kaiser@...
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> Dates:
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> Lunch
> Post launch briefing
> Dinner
> Fun
> Aug 3, 2008, Sunday @ ?? Reserved as the weather day, or going home
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> Yahoo! Groups Links
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3998. Re: [GPSL] GPSL 2008 Conference, First Call for Presentations...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-30 16:12:17 UTC
From: BASE
Topic: 3995 Message: 3998

The Pillsbury Observatory is located atop the White
Science Center on the campus of William Jewell College
in Liberty, Missouri.

Howard
--- Michael Gray <mgray@...> wrote:

> Where is Pillsbury Observatory (City, State)/
>
> Thanks
>
>
> On Wed, 30 Jan 2008, Keith Kaiser wrote:
>
> > Aeronauts,
> >
> > In order to plan for the best possible GPSL
> experience I would like to
> > ask those interested in doing a presentation and
> those interested in
> > having a static display to please give me a heads
> up. I don't need
> > your paper yet but if you have some idea how much
> time you would like
> > 30 minutes, 60 minutes, etc., let me know that and
> maybe the subject
> > of your talk. If you are interested in having a
> static display which
> > will be up Thursday afternoon until Friday or
> maybe even Saturday
> > afternoon please let me know about that too.
> Specifically I would like
> > to know how much room you think you need and again
> the subject matter
> > if possible.
> >
> > Please send this information to
> keith.kaiser@...
> >
> > Dates:
> > July 31, 2008, Thursday @ 1:00pm static displays
> open
> > July 31, 2008, Thursday @ 9:00pm tour of Pillsbury
> Observatory
> > Aug 1, 2008, Friday @ ?? Presentations

> > Lunch
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3999. Re: [GPSL] GPSL 2008 Conference, First Call for Presentations...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-30 17:27:29 UTC
From: PAUL VERHAGE
Topic: 3995 Message: 3999

I'd be interested in a static display. I'd also like to present on BalloonSats this year.

Thanks,
Paul

>>> Keith Kaiser <keith.kaiser@...> 01/30/08 7:05 AM >>>
Aeronauts,

In order to plan for the best possible GPSL experience I would like to
ask those interested in doing a presentation and those interested in
having a static display to please give me a heads up. I don't need
your paper yet but if you have some idea how much time you would like
30 minutes, 60 minutes, etc., let me know that and maybe the subject
of your talk. If you are interested in having a static display which
will be up Thursday afternoon until Friday or maybe even Saturday
afternoon please let me know about that too. Specifically I would like
to know how much room you think you need and again the subject matter
if possible.

Please send this information to keith.kaiser@...

Dates:
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Post launch briefing
Dinner
Fun
Aug 3, 2008, Sunday @ ?? Reserved as the weather day, or going home

Yahoo! Groups Links

4000. WB8ELK presentation and display

Yahoo group: GPSL (2002 — 2008)
Date: 2008-01-30 19:30:09 UTC
From: wb8elk@aol.com
Topic: 4000 Message: 4000

Hi Keith,

Put me down for at least 30 minutes...although I could probably go for an hour if you have the time....Topics will be: Long Duration flight techniques (Cross-Country and Trans-Atlantic crossings)

Also....a small table for static display would work.

- Bill Brown WB8ELK

**********Start the year off right. Easy ways to stay in shape.
http://body.aol.com/fitness/winter-exercise?NCID=aolcmp00300000002489

4001. Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-02 22:27:35 UTC
From: BASE
Topic: 4001 Message: 4001

Dear friends,

Our next flight will include a pre-dawn launch to
allow a student ELF radio to look at signals before
sunrise. I want to have a flashing visible light
beacon on the flight string during the ascent.

Does any one have any suggestions?

Thanks,
Howard

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http://tools.search.yahoo.com/newsearch/category.php?category=shopping

4002. Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-02 23:26:55 UTC
From: Nicholas Stich
Topic: 4001 Message: 4002

> Our next flight will include a pre-dawn launch to
> allow a student ELF radio to look at signals before
> sunrise. I want to have a flashing visible light
> beacon on the flight string during the ascent.
>
> Does any one have any suggestions?
>
> Thanks,
> Howard

Howard I bought a Xenon strobe several years ago from Into the Wind,
I believe that was the name of the kite company.

I found the paperwork that came with the unit and it is a "Lightman"
product and here is a link to their web site:
http://www.lightmanstrobes.com/basic.htm

I have used it several times for night launches in High Power
Rocketry and it also has been used one time during a 4am balloon
launch.

It says in the specs that it is visible for over 2 miles on the
ground. During my balloon launch it was visible for more like 15
miles. It survived the flight just fine. I did use 2 AA Li
batteries.

Best Regards,
Nick Stich
K0NMS / WPWG368

4003. RE: [GPSL] Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-02 23:31:35 UTC
From: Patterson, David
Topic: 4001 Message: 4003

Taylor University uses 4 Lightman strobes (2 LED and 2 Xenon) for our early morning launches. They've flown 3 times, and have been blinking on the ground when we got there each time, using Li AA batteries, as mentioned.

Overkill, perhaps, but our students enjoy the light show.

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Nicholas Stich
Sent: Sat 2/2/2008 6:26 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: Flashing visible light beacon

> Our next flight will include a pre-dawn launch to
> allow a student ELF radio to look at signals before
> sunrise. I want to have a flashing visible light
> beacon on the flight string during the ascent.
>
> Does any one have any suggestions?
>
> Thanks,
> Howard

Howard I bought a Xenon strobe several years ago from Into the Wind,
I believe that was the name of the kite company.

I found the paperwork that came with the unit and it is a "Lightman"
product and here is a link to their web site:
http://www.lightmanstrobes.com/basic.htm <http://www.lightmanstrobes.com/basic.htm>

I have used it several times for night launches in High Power
Rocketry and it also has been used one time during a 4am balloon
launch.

It says in the specs that it is visible for over 2 miles on the
ground. During my balloon launch it was visible for more like 15
miles. It survived the flight just fine. I did use 2 AA Li
batteries.

Best Regards,
Nick Stich

K0NMS / WPWG368

4004. Re: [GPSL] Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-02 23:38:07 UTC
From: Joe
Topic: 4001 Message: 4004

Nicholas,

A question for ya. Did the flight with the balloon have a GPS/APRS system onboard? Reason asking is we had a flight similar in nature as yours described below, but the APRS/GPS system was very erratic. It did work, but, the position was off simetimes by 50 miles, only to return to the actual location, and even sometimes it was as high as 43000 feet below sea level also.

We later learned by many that the error was from a coronal arc of the strobe getting into the GPS system.

Joe WB9SBD

Nicholas Stich wrote:

>>Our next flight will include a pre-dawn launch to
>>allow a student ELF radio to look at signals before
>>sunrise. I want to have a flashing visible light
>>beacon on the flight string during the ascent.
>>
>>Does any one have any suggestions?
>>
>>Thanks,
>>Howard
>>
>>
>
>Howard I bought a Xenon strobe several years ago from Into the Wind,
>I believe that was the name of the kite company.
>
>I found the paperwork that came with the unit and it is a "Lightman"
>product and here is a link to their web site:
>http://www.lightmanstrobes.com/basic.htm
>
>I have used it several times for night launches in High Power
>Rocketry and it also has been used one time during a 4am balloon
>launch.
>
>It says in the specs that it is visible for over 2 miles on the
>ground. During my balloon launch it was visible for more like 15
>miles. It survived the flight just fine. I did use 2 AA Li
>batteries.
>
>Best Regards,
>Nick Stich

>K0NMS / WPWG368
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>Yahoo! Groups Links
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4005. Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-03 14:41:50 UTC
From: Nicholas Stich
Topic: 4001 Message: 4005

> Nicholas,
>
> A question for ya. Did the flight with the balloon have a
>GPS/APRS system onboard? Reason asking is we had a flight similar
>in nature as yours described below, but the APRS/GPS system was
>very erratic. It did work, but, the position was off simetimes
>by 50 miles, only to return to the actual location, and even
>sometimes it was as high as 43000 feet below sea level also.
>
>We later learned by many that the error was from a coronal arc of
>the strobe getting into the GPS system.
>
> Joe WB9SBD

Joe,

Yes the package contained a Rino 110 that was the GPS engine
for the package. It also had an APRS system using a TT3. We had no
problems with the system. We never lost lock and never had any
readings of either location or altitude that were not normal.

The Lightman strobe was hanging on a tether about 3-ft below the
package. This arrangement was necessary because there was no room
inside my Rino/APRS package.

Nick Stich
K0NMS

4006. Re: [GPSL] Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-03 14:53:54 UTC
From: Ralph Wallio, W0RPK
Topic: 4001 Message: 4006

Flashing lights of any sort can be used on Part-101 EXEMPT flights because they are not required.
Required flashing beacons for NON-EXEMPT flights -must- be FAA certified devices (read 'expensive'
and 'power hungry').

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4007. 'expensive' 'power hungry'

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-04 15:35:09 UTC
From: K. Mark Caviezel
Topic: 4007 Message: 4007

Re: Flashing visible light
beacon Posted by: "Ralph Wallio,
W0RPK" W0RPK@...
Sun Feb 3, 2008 6:54 am (PST)
Flashing lights of any sort can be used on
Part-101 EXEMPT flights because they are not required.

Required flashing beacons for NON-EXEMPT flights
-must- be FAA certified devices (read 'expensive'
and 'power hungry').

Ralph: You forgot to mention 'heavy' as well!
FWIW, I am in the process of getting a white and red
LED light set certified for manned use. Current
lights used for manned balloons use incandescent bulbs
and are power hogs. I was absolutely stunned to hear
a man (FAA certified balloon repair station and seller
of such a device under STC) recommend unscrewing the
continuously lit bulb from the light set he sells,
because the power consumption is too high with it on.

In the gas balloon events, flights of over 48 hours
are common, so a power miserly light set will be an
advantage.

- Mark ng0x

4008. Re: [GPSL] Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-05 00:10:52 UTC
From: Mike Manes
Topic: 4001 Message: 4008

Joe's right. If you're using a Xe strobe tube, the main discharge cap voltage usually exceeds 300V and the ignition electrode voltage hits several KV. Any metal at those voltages and exposed to air is susceptible to coronal discharge at low ambient pressures. Corona is a wideband pulse emitter and could easily honk GPS reception.

This problem can be averted by keeping the air away from the live metal using corona dope (thick acrylic paint) or by switching the strobe off at altitude using a baroswitch, as was done by Norm Kjome of U Wyo. It also help to round off any sharp metal points carrying the HV.

Best to check for corona in bell jar to see where it's happening and to verify the effectiveness of any countermeasures.

Of course, high brightness LEDs operate well below the 250V corona onset voltage at altitude.

If you're flying non-exempt, then FAR 101.35(b) applies.

73 de Mike W5VSI, EOSS

Joe wrote:
> Nicholas,
>
> A question for ya. Did the flight with the balloon have a GPS/APRS
> system onboard? Reason asking is we had a flight similar in nature as
> yours described below, but the APRS/GPS system was very erratic. It did
> work, but, the position was off simetimes by 50 miles, only to
> return to the actual location, and even sometimes it was as high as
> 43000 feet below sea level also.
>
> We later learned by many that the error was from a coronal arc of the
> strobe getting into the GPS system.
>
> Joe WB9SBD
>
> Nicholas Stich wrote:
>>> Our next flight will include a pre-dawn launch to
>>> allow a student ELF radio to look at signals before
>>> sunrise. I want to have a flashing visible light
>>> beacon on the flight string during the ascent.
>>>
>>> Does any one have any suggestions?
>>>
>>> Thanks,
>>> Howard

>>>
>>
>> Howard I bought a Xenon strobe several years ago from Into the Wind,
>> I believe that was the name of the kite company.
>>
>> I found the paperwork that came with the unit and it is a "Lightman"
>> product and here is a link to their web site:
>> http://www.lightmanstrobes.com/basic.htm
>>
>> I have used it several times for night launches in High Power
>> Rocketry and it also has been used one time during a 4am balloon
>> launch.
>>
>> It says in the specs that it is visible for over 2 miles on the
>> ground. During my balloon launch it was visible for more like 15
>> miles. It survived the flight just fine. I did use 2 AA Li
>> batteries.
>>
>> Best Regards,
>> Nick Stich
>> K0NMS / WPWG368
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>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4009. Re: [GPSL] Re: Flashing visible light beacon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-05 11:30:05 UTC
From: Ralph Wallio, W0RPK
Topic: 4001 Message: 4009

Regarding potential problems with high voltage at high altitude see
http://showcase.netins.net/web/wallio/ARHAB_Highvoltage.html.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4010. [Fwd: [UTARC Chat] Metropulse Article Online!]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-07 19:11:25 UTC
From: David Hoffman
Topic: 4010 Message: 4010

David Hoffman - KE4FGW

---------- Original Message ----------
Subject: [UTARC Chat] Metropulse Article Online!
From: "Mike Coffey" <mike@...>
Date: Wed, February 6, 2008 8:06 pm
To: "UTARC general chat list" <chat@...>

Hello all,

The Metropulse article is now online! I guessed the URL and found that
it was posted today. It should be on the cover by tomorrow...

http://www.metropulse.com/articles/2008/18_06/coverstory.html

73,
Mike
KJ4Z

---
chat site list
chat@...
http://deathstar.asa.utk.edu/mailman/listinfo/chat

4011. Canon PowerShot A560 for ARHAB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-07 19:55:15 UTC
From: Mark Conner
Topic: 4011 Message: 4011

Some of you may have seen a notice on either the GPSL or ANSR e-mail list regarding using the CHDK software to program several models of the Canon PowerShot series. After doing a bit of reading on the site (http://chdk.wikia.com) I decided to start trolling eBay for the appropriate models and finally hit on an A560 for about $85 plus shipping.

The A560 is a 7.1 Mpixel camera. I just got it yesterday and tried it out. The pictures are not quite as good as my 6 Mp Canon digital SLR, probably due to smaller and inferior lenses. However, it's much better than any point-and-shoot models I've tried to date (Aiptek and Concord models, Canon Powershot A300). The camera is much smaller and lighter than expected - it is roughly the size of the Elph but with a bump on the right side for a handhold/space for second AA battery. It does have an optical zoom, and the lens is at near full extension (~1.5") for the wide-angle setting. This can complicate mounting. It does have a DC input jack roughly the size of most modern cell phone charge jacks which takes 3.15V in. That may be handy for putting the batteries in a warmer place in the payload and increasing their size (unknown yet if a set of NiMH or lithium batteries will work for the entire flight).

The CHDK software will let you script camera commands with incredible detail, simulating practically any menu option or button press you can do interactively. You can also control ISO settings, focus, zoom, exposure, etc. There are several scripts available for taking images at intervals, and the scripting language is an easy-to-understand form of BASIC.

There is even the ability to do motion detection which is fast enough to detect the leader stroke of a lightning flash and open the shutter in time to capture the main stroke(s) a few hundred milliseconds later.

Since you do not have to modify the camera in any way (removing the software from the memory card returns the camera to normal operation), this means you can use the camera for other than ARHAB purposes. I plan to use it for creating time-lapse movies and taking lightning pictures if it's fast enough (some models can't quite go fast enough for that).

I should have this camera ready to go for our first NSTAR flight on March 29th at the Severe Weather Symposium in Lincoln. I'll also post further updates as I get experience using and making scripts.

If you choose to get a camera, check the CHDK site to make sure the particular model is supported. I believe the A560 is the earliest/cheapest model supported. Expect to pay at least $80 for this model, maybe into the $125 range for the A6xx models. Plenty of them, including new-in-box ones, can be found on eBay at any one time.

73 de Mark N9XTN

4012. Ballooning article on front page of newspaper

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-07 22:56:17 UTC
From: Daniel Bowen
Topic: 4012 Message: 4012

Hi All, you may have heard already, but a nice article was written in a local paper about UTARC's Spirit of Knoxville transatlantic balloon program. The article is fairly in-depth, fun, and surprisingly accurate for a technical subject gracing the pages of a newspaper. The writer worked with us for weeks in many interviews and came to a launch as well. Several groups and balloonists are mentioned, including EOSS, NSS, Ralph Walio, Robert Rochte, Mark Caviezel, and Bill Brown. The Spirit of Knoxville is the feature story of the issue, and has a nice line drawing on the cover, which is visible at http://metropulse.com . The story itself will remain available at:
http://metropulse.com/articles/2008/18_06/coverstory.html
You can keep up with our SNOX program at http://www.spiritofknoxville.com. All flights from here on will be HF-only, so no FINDU tracking will be available, we have a live google map on that site for tracking.

Thanks,
Dan Bowen
K2VOL
UTARC
865-599-7361

4013. Label for hydrogen balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-08 18:15:33 UTC
From: Robert Rochte
Topic: 4013 Message: 4013
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4014. Re: [GPSL] [Fwd: [UTARC Chat] Metropulse Article Online!]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-08 18:16:50 UTC
From: Joe
Topic: 4010 Message: 4014

From Joe, WB9SBD of Near Space Sciences.

I've been in this high altitude ballooning this August for twenty years. And have helped many other groups "Get off the ground" so to speak.

As well we have gotten help from many others with cool ideas and new technologies also.

The Article mentioned below is cool, but we also find it troubling, about that later..

We here at NSS have been "Playing" with the idea of a long duration flight since probably 1990 or so. Our first attempt was using the technology from "EarthWinds" And a simple beacon made by KA9SZX, a simple CW message with a diaphragm from a weather sonde controlling a slide potieometer, that varied the speed of the CW message. by timing the message's interval we could determine the altitude.

a problem we forgot to account for was COLD, the cold effected the resistance of the slider pot resistance strip, and dropped it drastically, thus increasing the speed to almost a un decipherable speed.

no one by ear could copy it, it almost sounded like a packet burst.. people with computers were monitoring it, and were able to make the timings.

No GPS on board so exact locations were strictly by beam headings. and altitude was by the message interval.

Liftoff was at 8 am, on a Saturday morning. within a hour we knew we had the problem with the speed thing, but we were suspecting the balloon system was working as hoped, because the speed has plateaued out at about 55 words per minute.

But we thought did it actually level off? or is the resistance so low due to cold that it just can not go any lower. we knew only time will tell,

2 hours into the flight and signals still strong heard by many all over the mid west.

Ok it had to level off it is now 7 hours into the flight and still strong signals.

now for the moment of truth,, 9 hours into the flight and sundown is happening, and signal still there weaker but still copyable. we have the beam heading of due east, triangulation with many other stations puts it just barely into Michigan state,

At the 12 hour mark we loose signal. but from the HF net stations in Michigan, PA, NY etc are still hearing it.

22 hours after liftoff stations on the east coast are still hearing it, and are putting it someplace over Maine.

last station to hear it was a station from Maine with a beam heading of about 60 degrees, at 10 PM CST on Sunday evening. That was the last we heard from what we called "EarthBreeze"

With the recent elevated interest in the long duration flights, we though lets try again especially the technology has improved so much as far as tracking possibilities goes, NSS thought sure lets try. Don't care about the competition, just the effort.

We think we even have improved on our balloon technology also. But the payload was killing us. Both in costs, and newer technologies too. especially the HF long distance tracking stuff.

So, we think we have a workable balloon platform system but no payload suitable for a crossing attempt. And the window for the crossing attempt for this season is closing rapidly.

So after watching with interest the other groups with their attempts, and the ones that seemed the most eager and going hard for it was the "Spirit Of Knoxville" group.

They had what seemed a great payload, but a balloon system that has had it's fair share of problems.

We at NSS contacted them, and more or less proposed a "Joint Venture"

They have a awesome payload in need of a balloon system,,

We think we have a balloon system in need of a payload.

And the offer was proposed for a "Joint Mission"

And all seemed like they were interested in working together, till our last communication, on Jan 6th, a copy is below,,

Hi Dan and all the rest,

Joe WB9SBD here, Answers below

Dan Bowen wrote:

> Hi Joe, Brad, Steve,
> We respect your need for secrecy, as we have some of the same needs as
> we are in competition with several groups to become the first amateurs
> to send a small balloon across the atlantic ocean.

I am glad you understand the secrecy part. It's not so much as a decision on our part, but of a design part. UG, sorry can not say more.

> We are flattered with your respect for our achievements and skill,
> however, we do need to have some assurance that your project is not in
> direct competition with our goals.

And I guess theres the rub, we have been somewhat I guess lurking in the weeds on that part. We have been working on this same goal, for well over ten years ,if not longer. Flew many test flights, (seemed like regular flights to everyone else) but sub systems were tested. Then with time for this years missions running out, for the crossing missions. Is when and why I proposed a "Joint Mission" you guys seem to have an awesome payload. We have a balloon system that in only two ways the mission could fail. One is of a mechanical way, (but highly doubtful due to the simplicity of the design) And the other is in a materials way, (This one we have no clue as to yet for the material has never been used in this way)

Like i said in the initial contact,, You guys have awesome payload designs,, looking for a ride,, we have a balloon in need of a better payload.

> We don't need to know any details of your hardware or envelope, but
> before we go further, can you tell us about the classification of the
> flight - is this going to be amateur or commercial

Absolutely strictly Amateur.

> and are you going to cross the atlantic before march?

We will be attempting yes, before the end of the month or early Feb. at the latest, one way or another, even if it's just a MicroTrak-300. sometime before early Feb. it's leaving. But since we do not have time to research and make up the super payload, and,, when Mike said you're more or less on hold till you get another balloon. That's when I offered the "Joint Mission" project.

We also are in waiting for one more material for the balloon to arrive. and depending on your all decision, a ordering on one of those small solenoid valves, we are ready to go.

Looking forward to your thoughts and decisions.

Joe WB9SBD
Near Space Sciences

We at NSS never got a reply,, so iguessed since we were in a somewhat "Competition" Even though NSS was not actually, They didn't want to share a crossing if it worked. Then, when this article comes out We were quite suprised as to some of the statements made.

"Then there's that mystery group that came out of nowhere," Williams says. Near Space Sciences (NSS), a co-op of crafty science geeks from Richland Center, Wis., is a relatively unknown force to be reckoned with in the race to become the first privately-funded group to send a weather balloon across the Atlantic. The group contacted the Spirit of Knoxville

crew to deliver a single message: "We're going to beat you."

20 years of flying and we came out of nowhere?

And we NEVER said anything even close to resembling a single message of we are going to beat you,

We had a exchange of at least a dozen E Mails discussing the possible "Joint Venture" and all looked good until that last message exchange as seen above. Then silence.

The first part of the comment about NSS in the newspaper is somewhat complimentary, But, we found the last comment discourageing. As if we were in the competition. And that beating them was never said.

We will still eventually fly, it may not be aborder crossing this winter,, or ocean crossing,, maybe it will be in the summer instead, where we will maybe put up a repeater and gps system when the winds are at their slowest. just to see how long we can keep it up and still have it be a "Local" bird.

Take care everyone, the web page for the results of NSS-45 is almost ready. we will announce it when done.

Take care everyone.

Let the Flames Begin?

Joe WB9SBD
Near Space Sciences

David Hoffman wrote:

>David Hoffman - KE4FGW
>
>
>---------- Original Message ----------
>Subject: [UTARC Chat] Metropulse Article Online!
>From: "Mike Coffey" <mike@...>
>Date: Wed, February 6, 2008 8:06 pm
>To: "UTARC general chat list" <chat@...>
>---
>
>Hello all,
>
>The Metropulse article is now online! I guessed the URL and found that
>it was posted today. It should be on the cover by tomorrow...
>
>http://www.metropulse.com/articles/2008/18_06/coverstory.html
>
>73,
>Mike
>KJ4Z

>_____
>chat site list
>chat@...
>http://deathstar.asa.utk.edu/mailman/listinfo/chat
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>Yahoo! Groups Links
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4015. Re: [GPSL] [Fwd: [UTARC Chat] Metropulse Article Online!]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-08 18:28:22 UTC
From: Mark Conner
Topic: 4010 Message: 4015

Keep in mind that feature article writers can have a tendency to "enhance" some of the details to draw in the reader. A lot can be lost or changed between interview and published article.

73 de Mark N9XTN

----- Original Message -----
From: Joe <nss@...>
Date: Friday, February 8, 2008 12:18 pm
Subject: Re: [GPSL] [Fwd: [UTARC Chat] Metropulse Article Online!]
To: GPSL@yahoogroups.com

> From Joe, WB9SBD of Near Space Sciences.

[re: "We're going to beat you" part of story]

4016. Re: [GPSL] Label for hydrogen balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-08 18:31:10 UTC
From: Joe
Topic: 4013 Message: 4016

Only have flied three PE zero pressure balloons, never even thought of
that. could be a problem i suppose. but our chase and recovery teams
were always at the landing sites of those flights anyway, so, hmmm?

something to concider. and add when we fly next.

Joe

Robert Rochte wrote:

> This is a question for groups that use hydrogen as their lift gas:
>
> Do you affix any sort of warning label to the balloon or flight line
> indicating that the balloon is filled with a flammable gas (i.e., just
> in case the envelope comes down intact)?
>
> Thanks.
>
> 73,
> Robert KC8UCH
>
> --
> Robert Rochte, Director of Technology
> The Grosse Pointe Academy
> +1 313-886-1221 x155 Office
>

4017. Re: [GPSL] [Fwd: [UTARC Chat] Metropulse Article Online!]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-08 18:32:26 UTC
From: Joe
Topic: 4010 Message: 4017

Very true Mark,

Just seemed strange,,

Joe

Mark Conner wrote:

>Keep in mind that feature article writers can have a tendency to "enhance" some of the details to draw in the reader. A lot can be lost or changed between interview and published article.
>
>73 de Mark N9XTN
>
>----- Original Message -----
>From: Joe <nss@...>
>Date: Friday, February 8, 2008 12:18 pm
>Subject: Re: [GPSL] [Fwd: [UTARC Chat] Metropulse Article Online!]
>To: GPSL@yahoogroups.com
>
>
>
>>From Joe, WB9SBD of Near Space Sciences.
>>
>>
>
>[re: "We're going to beat you" part of story]
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>
>Yahoo! Groups Links
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4018. Recent E Mails,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-09 19:17:20 UTC
From: Joe
Topic: 4018 Message: 4018

First off,
I would like to apologize for any misunderstandings, that our recent E Mailings may have made.

Yes we do keep a somewhat LOW profile, so many of the other newer groups may not know of us.

And our web page has not changed in probably years.

But then at the same time our recent flights have been on all the groups in big amounts too. like live streaming of the audios etc.

Anyway, What started this all was that newspaper article. And the comment about "Beating Someone"

That did hit all of us here at NSS in a deep hearted way. We were not in the "Competition" we do this ballooning just for the love and fun of it.

If we were in it for the "Competition" and glory of being the "First" obviously our web page would show this to be true. And it may not be probably ten years out of date. We just don't care about that stuff. Hell we have done flights where the only people that even knew about them was like three of us? We are just not into the glory aspect of this.

In the true nature of Amateur Radio, we offered to another Group, to join forces, to work together for a common goal. And to achieve this goal together. But when i guess the "Competition" aspect came in that was not to be. Even with the Competition in tow we would still been happy to join forces with this other group on the joint effort. but they apparently did not want to.

And i had no problem with this. The problem we had was the false statement of us telling them we were gonna beat them. That is the problem.

Our group in no way is into the competition, never has, hence the poor record keeping of flights, altitude, duration, distance etc. anyone remember the flight from Hillsboro WI. that went to Ohio/Indiana border, then came all the way back to Illinois and landed at Ohare? Like a 14 to 16 hour flight, and possibly ohhh, a 600 mile trip?

Yes now days that's not even close to being a record any more, but i bet in the late 80's it probably was. We just never said anything about it.

We've built payloads for the Rockets For Schools program, Where a super-loki sub orbital rocket flight is done for schools. Never said anything about it.

We've flown experimental payloads for retired NASA guys working on the X Prize, just never said anything about it.

We are not into tooting our own horn. It's just the way we are.

But we don't like "Press" that is published that makes us look bad. And that is what started this whole thing.

I admit, even this E mailings may make us look bad, and petty, but when something is published that is in no way truthful and negative about your group, it's like a direct attack on our families.

We love this activity, probably only to be exceeded in level of LOVE by our mentor Bill ELK. It's all we think about, to the point even our personal lives sometimes has suffered from it. if we had the cashflow, we probably would be closing in on 1000 flights so far.,, ok thats an exaggeration 20 years 52 weeks a year equals,, uh ok i proved myself wrong, that would be 1040 flights,, he he he,, we are just a small group of folk, 4 main core, and Linda my wife is one of them, so we got us two and two others, And that's it as far as funding for these flights,, and this part of the world it's a quite depressed economy area. a job that pays 8 a hour is a awesome paying job, and you need skills far exceeding it to even have a chance of getting it. but that's our personal flight problems.

We just offered in the spirit of Amateur Radio In the Spirit Of "Elmerisim" to work together. I guess sadly, in this aspect of Amateur Radio, working together for a ballooning goal, is QRT.

Now that the Cat IS out of the bag,, about us here at NSS working on the crossing attempt. Even though that was also one of the request's we asked when we offered to join forces we wanted our involvement to be kept an absolute secret. In which it was agreed upon. sadly even that was not respected for about a week after the joint venture was offered, we had a e mail from someone not associated with either group asking about our attempt. so much for honoring our request for it to be kept between the two of us.
So, now that everyone knows what's going on here,

We make the offer, we think we have a balloon technology, in need of a payload,, anyone with a payload that wants a ride?

It's taken us probably 4 years in development of the balloon. And huge sacrifices on all our parts to make it a reality, we have invested in the balloon materials alone well over $500.00. hence the No payload for it to fly.

We have if the balloon fails and a "Typical" flight profile happens, 3 to 4 hour flight, we have a 100% recovery rate, 45 flights and every one recovered,

Now of course if the balloon is a success, you won't be getting it back unless it lands someplace in the world where it can be found and returned.

so the offer is out there, we are still willing to give a group a ride.

Joe WB9SBD
Near Space Sciences

4019. Re: Recent E Mails about competition

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-09 20:50:48 UTC
From: wb8elk@aol.com
Topic: 4019 Message: 4019

Hi Joe,

I do this for the fun and the challenge of pushing the "envelope" as you might know...And as you also know, I've been trying longer and longer duration flights in the eventual goal of sending one across the Atlantic and also across the country....I'm open source about that information and I will share my knowledge with any group.....I help the other groups attempting the Atlantic crossing if they ask for advice, honestly helping each other out will make it possible to do the crossing.......for me it's not a competition, I just want to see someone do it. Some really neat techniques for ballast systems and HF telemetry methods have come about from this effort and in the spirit of the ARHAB community, I hope that information sharing remains part of this.......I understand that healthy and friendly competition drives a team or group for extra effort for a goal (I particularly think that trying to achieve a new goal on Ralph's ARHAB records page has driven some real pioneering ballooning efforts).... so that to me is ok too as long as long as fist fights don't break out <smile>.

- Bill WB8ELK

**********Biggest Grammy Award surprises of all time on AOL Music. (http://music.aol.com/grammys/pictures/never-won-a-grammy?NCID=aolcmp00300000002548)

4020. Re: [GPSL] Re: Recent E Mails about competition

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-09 21:04:40 UTC
From: Joe
Topic: 4019 Message: 4020

Agreed In Every Way.

Joe WB9SBD & NSS

wb8elk@... wrote:

> Hi Joe,
>
> I do this for the fun and the challenge of pushing the "envelope" as
> you might know...And as you also know, I've been trying longer and
> longer duration flights in the eventual goal of sending one across the
> Atlantic and also across the country....I'm open source about that
> information and I will share my knowledge with any group.....I help
> the other groups attempting the Atlantic crossing if they ask for
> advice, honestly helping each other out will make it possible to do
> the crossing.......for me it's not a competition, I just want to see
> someone do it. Some really neat techniques for ballast systems and HF
> telemetry methods have come about from this effort and in the spirit
> of the ARHAB community, I hope that information sharing remains part
> of this.......I understand that healthy and friendly competition
> drives a team or group for extra effort for a goal (I particularly
> think that trying to achieve a new goal on Ralph's ARHAB records page
> has driven some real pioneering ballooning efforts).... so that to me
> is ok too as long as long as fist fights don't break out <smile>.
>
> - Bill WB8ELK
>
>
>
>
>
> ---
> Who's never won? Biggest Grammy Award surprises of all time on AOL
> Music.
> <http://music.aol.com/grammys/pictures/never-won-a-grammy?NCID=aolcmp00300000002548>
>

4021. Re: [GPSL] Recent E Mails,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-10 02:33:54 UTC
From: Mike Manes
Topic: 4018 Message: 4021

Hey, Joe, it's OK to let the Grumpy Old Man loose from time to time,
just so long that you call him back in time for dinner :=}.

No blood, no foul, OM.

73 de Mike W5VSI

Joe wrote:
> First off,
> I would like to apologize for any misunderstandings, that our recent E
> Mailings may have made.
>
> Yes we do keep a somewhat LOW profile, so many of the other newer groups
> may not know of us.
>
> And our web page has not changed in probably years.
>
> But then at the same time our recent flights have been on all the
> groups in big amounts too. like live streaming of the audios etc.
>
> Anyway, What started this all was that newspaper article. And the
> comment about "Beating Someone"
>
> That did hit all of us here at NSS in a deep hearted way. We were not
> in the "Competition" we do this ballooning just for the love and fun of it.
>
> If we were in it for the "Competition" and glory of being the "First"
> obviously our web page would show this to be true. And it may not be
> probably ten years out of date. We just don't care about that stuff.
> Hell we have done flights where the only people that even knew about
> them was like three of us? We are just not into the glory aspect of this.
>
> In the true nature of Amateur Radio, we offered to another Group, to
> join forces, to work together for a common goal. And to achieve this
> goal together. But when i guess the "Competition" aspect came in that
> was not to be. Even with the Competition in tow we would still been
> happy to join forces with this other group on the joint effort. but they
> apparently did not want to.
>
> And i had no problem with this. The problem we had was the false
> statement of us telling them we were gonna beat them. That is the problem.
>
> Our group in no way is into the competition, never has, hence the poor
> record keeping of flights, altitude, duration, distance etc. anyone
> remember the flight from Hillsboro WI. that went to Ohio/Indiana
> border, then came all the way back to Illinois and landed at Ohare?

> Like a 14 to 16 hour flight, and possibly ohhh, a 600 mile trip?
>
> Yes now days that's not even close to being a record any more, but i bet
> in the late 80's it probably was. We just never said anything about it.
>
> We've built payloads for the Rockets For Schools program, Where a
> super-loki sub orbital rocket flight is done for schools. Never said
> anything about it.
>
> We've flown experimental payloads for retired NASA guys working on the X
> Prize, just never said anything about it.
>
> We are not into tooting our own horn. It's just the way we are.
>
> But we don't like "Press" that is published that makes us look bad. And
> that is what started this whole thing.
>
> I admit, even this E mailings may make us look bad, and petty, but
> when something is published that is in no way truthful and negative
> about your group, it's like a direct attack on our families.
>
> We love this activity, probably only to be exceeded in level of LOVE by
> our mentor Bill ELK. It's all we think about, to the point even our
> personal lives sometimes has suffered from it. if we had the cashflow,
> we probably would be closing in on 1000 flights so far.,, ok thats an
> exaggeration 20 years 52 weeks a year equals,, uh ok i proved myself
> wrong, that would be 1040 flights,, he he he,, we are just a small
> group of folk, 4 main core, and Linda my wife is one of them, so we
> got us two and two others, And that's it as far as funding for these
> flights,, and this part of the world it's a quite depressed economy
> area. a job that pays 8 a hour is a awesome paying job, and you need
> skills far exceeding it to even have a chance of getting it. but that's
> our personal flight problems.
>
> We just offered in the spirit of Amateur Radio In the Spirit Of
> "Elmerisim" to work together. I guess sadly, in this aspect of Amateur
> Radio, working together for a ballooning goal, is QRT.
>
> Now that the Cat IS out of the bag,, about us here at NSS working on
> the crossing attempt. Even though that was also one of the request's we
> asked when we offered to join forces we wanted our involvement to be
> kept an absolute secret. In which it was agreed upon. sadly even that
> was not respected for about a week after the joint venture was offered,
> we had a e mail from someone not associated with either group asking
> about our attempt. so much for honoring our request for it to be kept
> between the two of us.
> So, now that everyone knows what's going on here,
>
> We make the offer, we think we have a balloon technology, in need of a
> payload,, anyone with a payload that wants a ride?

>
> It's taken us probably 4 years in development of the balloon. And huge
> sacrifices on all our parts to make it a reality, we have invested in
> the balloon materials alone well over $500.00. hence the No payload for
> it to fly.
>
> We have if the balloon fails and a "Typical" flight profile happens, 3
> to 4 hour flight, we have a 100% recovery rate, 45 flights and every
> one recovered,
>
> Now of course if the balloon is a success, you won't be getting it back
> unless it lands someplace in the world where it can be found and returned.
>
> so the offer is out there, we are still willing to give a group a ride.
>
> Joe WB9SBD
> Near Space Sciences
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4022. Re: [GPSL] Recent E Mails,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-10 06:50:58 UTC
From: Greg Williams
Topic: 4018 Message: 4022

Just my humble opinion and not that of UTARC, but there was nothing incorrect about the article regarding NSS or any other group we mentioned. EVERYONE trying is out to beat us. Everyone trying wants to be first across. Just as we want to be first and beat everyone else. It's called "competition".

I've not had any notion that any one group has had ulterior motives over another when sharing information nor was it intended in my quote in the article about them coming "out of nowhere". I don't think anyone should feel the article sheds any negative light on anyone or any group.

It shows a competitive spirit that has driven all groups trying to make it across and it has shown that when there is competition, there is drive and determination to best one another. Pushing the envelope can inspire people to take an idea and then make it better.

The only thing missing though is an X-Prize reward. I still think gobs and gobs of money would be good. If anyone has any sponsors with money burning a hole in their pocket, be sure to tell them about this effort by everyone, not just UTARC.

That or free margaritas and steak.

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4023. My big mouth...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-11 23:55:56 UTC
From: Keith Kaiser
Topic: 4023 Message: 4023

By virtue of my own big mouth I find myself in the role of webmaster for the GPSL 2008 web site (superlaunch.org). This does not however mean that I should or want to be the only contributor its contents. What you see now is my first shot at making something both nice looking and informative along the lines of what you might see on other web sites of this nature. So now its up to you, send me your ideas, send me your content, send me your...gulp...criticism, send me something to add to the pages, after all this is the GPSL 2008 web site, not the WA0TJT web site.

Oh and if you are thinking of doing a presentation or want some table space for a display at GPSL, please send me that too.

--
YIS/YIV/73's!
Keith D Kaiser
superlaunch.org
nearspaceventures.com
bsaroundtable.com
kaiserklan.com

4024. RE: [GPSL] My big mouth...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 00:00:52 UTC
From: Roger Hammond
Topic: 4023 Message: 4024

Keith,

I think it looks GREAT. Keep up the good work.

Rog KCØMWM
CNNSP

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Keith Kaiser
Sent: Monday, February 11, 2008 5:56 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] My big mouth...

By virtue of my own big mouth I find myself in the role of webmaster for the GPSL 2008 web site (superlaunch.org). This does not however mean that I should or want to be the only contributor its contents. What you see now is my first shot at making something both nice looking and informative along the lines of what you might see on other web sites of this nature. So now its up to you, send me your ideas, send me your content, send me your...gulp...criticism, send me something to add to the pages, after all this is the GPSL 2008 web site, not the WA0TJT web site.

Oh and if you are thinking of doing a presentation or want some table space for a display at GPSL, please send me that too.

--
YIS/YIV/73's!
Keith D Kaiser
superlaunch.org
nearspaceventures.com
bsaroundtable.com
kaiserklan.com

4025. Re: [GPSL] My big mouth...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 01:25:10 UTC
From: Harry M
Topic: 4023 Message: 4025

Hey, that looks great Keith! Nice job!

But man that jet stream is haulin' a@# in the logo pic at the top of the page.

;)

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

4026. Re: [GPSL] My big mouth...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 02:01:32 UTC
From: Harry M
Topic: 4023 Message: 4026

BTW - I may have missed it in emails and I don't see it on the web site, but where will the conference be held?

Harry KC5TRB

4027. Re: [GPSL] My big mouth...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 14:57:36 UTC
From: Keith Kaiser
Topic: 4023 Message: 4027

The question has come up "where is GPSL 2008 being held" which seems a reasonable question. The only reason I haven't made a big deal about it yet is because we are still trying to nail down some specifics. But at this point it looks like we will be holding the conference and display areas at William Jewell College in Liberty, Missouri. For those of you not familiar with the KC area, Liberty is just North of Kansas City on I-35, click on one of the proposed launch sites and you'll get a nice view.

Keep the comments and dialog coming folks, and thanks to those who complimented the web site... superlaunch.org

On Feb 11, 2008, at 8:01 PM, Harry M wrote:

>
> BTW - I may have missed it in emails and I don't see it on the web
> site, but where will the conference be held?
>
> Harry KC5TRB
> -----
>
>

4028. RE: [GPSL] My big mouth...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 15:15:51 UTC
From: Nick Hanks
Topic: 4023 Message: 4028

Keith,

Nice job! Lots of data on the Home page with great selection of links.

Nick
N?LP
EOSS

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Keith Kaiser
Sent: Monday, February 11, 2008 16:56 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] My big mouth...

By virtue of my own big mouth I find myself in the role of webmaster for the GPSL 2008 web site (superlaunch.org). This does not however mean that I should or want to be the only contributor its contents. What you see now is my first shot at making something both nice looking and informative along the lines of what you might see on other web sites of this nature. So now its up to you, send me your ideas, send me your content, send me your...gulp...criticism, send me something to add to the pages, after all this is the GPSL 2008 web site, not the WA0TJT web site.

Oh and if you are thinking of doing a presentation or want some table space for a display at GPSL, please send me that too.

--
YIS/YIV/73's!
Keith D Kaiser
superlaunch.org
nearspaceventures.com
bsaroundtable.com
kaiserklan.com

4029. Launch site selection

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 15:31:41 UTC
From: Mark Conner
Topic: 4029 Message: 4029

I know we have over five months to work this, but doesn't hurt to start thinking about this now.

Many previous GPSL events have had landing sites south and/or west of the launch site. If the winds are like that for this year, using a launch site near Liberty MO will not work as we'd land well into town. Going east into Missouri could be a problem as the region is much more wooded than we typically see in Iowa, Nebraska, Kansas, or Colorado.

Other balloon groups (HABITAT, NSBG) have used sites southwest of Olathe in the summertime, around Edgerton or Ottawa. Edgerton might be a little close in a light-wind situation, but Ottawa should be far enough. It's also more comfortably distant from KCI and any other busy airports in the KC metro area.

There is a school in Ottawa on the west side of town that has a larger parking lot and what looks like a lot of open space around, plus there is a municipal airport south of town too.

73 de Mark N9XTN

4030. Hank Riley

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 15:30:40 UTC
From: Joe
Topic: 4030 Message: 4030

Hank Riley,

Your e mail address directly to you is bouncing,, hope this makes it through,

Joe NSS

4031. Re: [GPSL] Launch site selection

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 15:45:47 UTC
From: Keith Kaiser
Topic: 4029 Message: 4031

Ottawa is a over an hour to the Southwest of where we will be, seems unlikely anyone would want to drive that far for a launch. Plus our experience of launching in this area and that time of year puts a landing almost in downtown KC so at least this time it's not a real good choice. We have used the Fountain Park location for many launches and at least up till now (knock on wood) our landings have always been within 20-30 miles in the farm lands between Karney and Lawson, MO. Flying to the Northeast but you are right we have had due East flights as well but usually only the early Spring flights.

Thank you for the feedback on this issue, I will bring your note to our next planning meeting to share with the rest of the team just in case I don't know what I'm talking about (could be). I sure can't promise you a corn field landing like in Iowa, but the longest searches we have ever done was in that very Iowa corn field, this should be easier.

On Feb 12, 2008, at 9:31 AM, Mark Conner wrote:

> Ottawa

4032. Re: [GPSL] Launch site selection

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 16:10:47 UTC
From: Mark Conner
Topic: 4029 Message: 4032

The problem is that we will need alternate selections scouted ahead of time to cover any wind contingency. For example, for GPSL 2005 in Omaha, we had two sites selected - one about 40 minutes east of Omaha, and one about 40 minutes west. Between the two, we had practically any contingency covered, from light winds where the balloon could go a few miles in any direction to a straight line in any direction for tens of miles. We also have to accomodate the spread in landing sites due to different burst altitudes and ascent rates (typically around 10-15 miles).

In 2007, we had to make a last-minute change due to an unforseen wind circumstance (landing sites would be too close to I-80 and/or the Platte River). Fortunately we found the shooting range in Doniphan that was suitable.

Speaking only for myself, I'm willing to drive more on Saturday morning to avoid landing issues. I also prefer corn over trees, but that's just me. :)

Great job on the website, and looking forward to August.

73 de Mark N9XTN

----- Original Message -----
From: Keith Kaiser <keith.kaiser@...>
Date: Tuesday, February 12, 2008 9:50 am
Subject: Re: [GPSL] Launch site selection
To: GPSL@yahoogroups.com

> Ottawa is a over an hour to the Southwest of where we will be,
> seems
> unlikely anyone would want to drive that far for a launch. Plus
> our
> experience of launching in this area and that time of year puts a
> landing almost in downtown KC so at least this time it's not a
> real
> good choice. We have used the Fountain Park location for many
> launches
> and at least up till now (knock on wood) our landings have always
> been
> within 20-30 miles in the farm lands between Karney and Lawson,
> MO.
> Flying to the Northeast but you are right we have had due East
> flights
> as well but usually only the early Spring flights.
>
> Thank you for the feedback on this issue, I will bring your note
> to
> our next planning meeting to share with the rest of the team just
> in

> case I don't know what I'm talking about (could be). I sure can't
> promise you a corn field landing like in Iowa, but the longest
> searches we have ever done was in that very Iowa corn field, this
> should be easier.
>

4033. Re: [GPSL] Launch site selection

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 16:18:52 UTC
From: Keith Kaiser
Topic: 4029 Message: 4033

These are excellent arguments and I agree we do need at least one
maybe two more alternate sites just for the reasons you give. Keep
checking the web site, when we have found a couple I'll post them.

Thanks for the feedback Mark.

On Feb 12, 2008, at 10:10 AM, Mark Conner wrote:

> The problem is that we will need alternate selections scouted ahead
> of time to cover any wind contingency. For example, for GPSL 2005 in
> Omaha, we had two sites selected - one about 40 minutes east of
> Omaha, and one about 40 minutes west. Between the two, we had
> practically any contingency covered, from light winds where the
> balloon could go a few miles in any direction to a straight line in
> any direction for tens of miles. We also have to accomodate the
> spread in landing sites due to different burst altitudes and ascent
> rates (typically around 10-15 miles).
>
> In 2007, we had to make a last-minute change due to an unforseen
> wind circumstance (landing sites would be too close to I-80 and/or
> the Platte River). Fortunately we found the shooting range in
> Doniphan that was suitable.
>
> Speaking only for myself, I'm willing to drive more on Saturday
> morning to avoid landing issues. I also prefer corn over trees, but
> that's just me. :)
>
> Great job on the website, and looking forward to August.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Keith Kaiser <keith.kaiser@...>
> Date: Tuesday, February 12, 2008 9:50 am
> Subject: Re: [GPSL] Launch site selection
> To: GPSL@yahoogroups.com
>
> > Ottawa is a over an hour to the Southwest of where we will be,
> > seems
> > unlikely anyone would want to drive that far for a launch. Plus
> > our
> > experience of launching in this area and that time of year puts a
> > landing almost in downtown KC so at least this time it's not a
> > real
> > good choice. We have used the Fountain Park location for many
> > launches

> > and at least up till now (knock on wood) our landings have always
> > been
> > within 20-30 miles in the farm lands between Karney and Lawson,
> > MO.
> > Flying to the Northeast but you are right we have had due East
> > flights
> > as well but usually only the early Spring flights.
> >
> > Thank you for the feedback on this issue, I will bring your note
> > to
> > our next planning meeting to share with the rest of the team just
> > in
> > case I don't know what I'm talking about (could be). I sure can't
> > promise you a corn field landing like in Iowa, but the longest
> > searches we have ever done was in that very Iowa corn field, this
> > should be easier.
> >
>
>

4034. Re: possible bouncing from Hank Riley yahoomail

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-12 20:19:47 UTC
From: Hank
Topic: 4030 Message: 4034

> Your e mail address directly to you is bouncing

I've emailed Joe directly and mentioned an alternate email, so if there's any problem with yahoomail, we'll get to the bottom of it.

It's certainly not overflowing, and getting a good amount of incoming email every day, so I'm not at all sure what this is about.

4035. VHF Communications

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-17 04:41:59 UTC
From: Gene Harlan
Topic: 4035 Message: 4035

For those of you that have seen VHF Communications before, you know that it is a great technical publication. It is a quarterly publication covering VHF, UHF, and microwaves. There are many construction articles primarily for the higher frequencies. I learn something every time I read an issue.

Harlan Technologies is the USA distributor, and we will be happy to take your subscriptions. Subscriptions are $44.00 per year (2008 rate).

If you are not familiar with the publications, the publisher Andy Barter has sent a few sample issues to try and get the USA subscription interest up. If you think that you might be interested in subscribing but just not sure, send me your mailing address and I will be happy to send a sample to help you decide if you would like to subscribe.

When they are gone, that's it. First come, first to get the samples.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

4036. Results of the bubble-wrap thermal test Oz-12 and Oz-13 flights now online

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-19 07:59:59 UTC
From: wb8elk@aol.com
Topic: 4036 Message: 4036

I used these flights to test out the exciter transmitters for the trans-Atlantic flight coming up next month as well as the thermal performance of using only bubble-wrap as payload insulation.

Oz-12: 8 milliwatts on 28.175 MHz FSK RTTY
Oz-13: 8 milliwatts on 144.345 MHZ FM AFSK RTTY

Results now online:
http://www.wb8elk.com (http://www.wb8elk.com)

http://www.wb8elk.com/Oz13.htm (http://www.wb8elk.com/Oz13.htm)

I think folks will be interested in the performance of the minimalist bubble-wrap thermal performance on the results graph.

Reception of the Oz-13 8 mW 144.345 FM RTTY transmitter was reported from 200 miles (W4HTB in Bowling Green, KY) and at 300 miles by KA9UVY in Mt. Vernon, IL

- Bill WB8ELK
Huntsville, AL

**********Ideas to please picky eaters. Watch video on AOL Living. (http://living.aol.com/video/how-to-please-your-picky-eater/rachel-campos-duffy/2050827?NCID=aolcmp00300000002598)

4037. Logos...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-19 16:28:57 UTC
From: Keith Kaiser
Topic: 4037 Message: 4037

If you don't see your logo near the bottom of superlaunch.org please sent me a copy of it. I'm on a roll... lol

4038. Re: Logos...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-19 17:19:08 UTC
From: Hank
Topic: 4037 Message: 4038

> If you don't see your logo near the bottom of superlaunch.org please
> send me a copy of it. I'm on a roll... lol

Keith,

I just took my first look at superlaunch.org. It's really
a very cool looking, slick website.

You've done a real nice job! Great look to it.

Hank

4039. Re: [GPSL] Results of the bubble-wrap thermal test Oz-12 and Oz-13 flights now online

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-20 03:48:55 UTC
From: Mike Manes
Topic: 4036 Message: 4039

Hi Bill,

What's remarkable about the OZ-12 3-layer data is that the internal temp actually ROSE from 15C to 35 C until it hit the tropopause. The "Icarus Effect" perhaps? :-}.

OZ-13 2-layer data exhibited the expected drop in temp with a thermal lag.

Kinda neat way to provide both thermal and mechanical isolation of small packages. We'll have to give it try on cheap DVR that's caught the flu both times we've flown it,

73 de Mike W5VSI

wb8elk@... wrote:
> I used these flights to test out the exciter transmitters for the
> trans-Atlantic flight coming up next month as well as the thermal
> performance of using only bubble-wrap as payload insulation.
>
> Oz-12: 8 milliwatts on 28.175 MHz FSK RTTY
> Oz-13: 8 milliwatts on 144.345 MHZ FM AFSK RTTY
>
> Results now online:
> http://www.wb8elk.com
>
> http://www.wb8elk.com/Oz13.htm
>
> I think folks will be interested in the performance of the minimalist
> bubble-wrap thermal performance on the results graph.
>
> Reception of the Oz-13 8 mW 144.345 FM RTTY transmitter was reported
> from 200 miles (W4HTB in Bowling Green, KY) and at 300 miles by KA9UVY
> in Mt. Vernon, IL
>
> - Bill WB8ELK
> Huntsville, AL
>
>
>
>
> ---
> Delicious ideas to please the pickiest eaters. Watch the video on AOL
> Living.
> <http://living.aol.com/video/how-to-please-your-picky-eater/rachel-campos-duffy/2050827?

NCID=aolcmp00300000002598>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4040. Pillsbury Observatory @ GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-22 21:16:21 UTC
From: Keith Kaiser
Topic: 4040 Message: 4040

Aeronauts,

I had an opportunity to visit the observatory the other night, in fact the night of the eclipse of the moon....very cool!

I met with our representative from the school and was shown around the facilities and of course Deb and I got to peek through the telescope too. One of the things we need to have at least a rough idea of is the numbers of people who might like to go see the observatory on Thursday night July 31. If you think this is something you want to do, please send me a note with the approximate number of people in your family or group that will be attending. I won't hold you to the number and I don't expect there to be a problem but I need to get a handle on what the count will be for planning purposes over at the college.

The observatory visit is open to everyone, your significant other, your kids, your grandma if she is interested, so a quick number from you will go a long way in our planning.

Thanks....

4041. Amateur Radio High Altitude Balloon forum on schedule at Dayton Hamvention

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-23 19:54:49 UTC
From: wb8elk@aol.com
Topic: 4041 Message: 4041

All,

I managed to arrange a dedicated 1-hour forum slot for Amateur Radio High Altitude Ballooning at the Dayton Hamvention:
==========

Forum: Ballooning
Time and Day: 1315-1415 Friday
==========
For those of you attending the Dayton Hamvention this year, let me know if you'd like to present an approx 10 to 15 minute talk...or even just stand up for a couple of minutes to talk about your group. Let me know by mid-March as that is the deadline for the Speakers list.
- Bill WB8ELK

**********Ideas to please picky eaters. Watch video on AOL Living. (http://living.aol.com/video/how-to-please-your-picky-eater/rachel-campos-duffy/2050827?NCID=aolcmp00300000002598)

4042. Re: [GPSL] Pillsbury Observatory @ GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-25 14:35:41 UTC
From: PAUL VERHAGE
Topic: 4040 Message: 4042
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4043. RE: [GPSL] Pillsbury Observatory @ GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-25 19:19:06 UTC
From: Nick Hanks
Topic: 4040 Message: 4043

Hi Keith,

First cut at a number for EOSS for the tour is 16.

Nick
NOLP
EOSS

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]On Behalf Of Keith Kaiser
Sent: Friday, February 22, 2008 14:16 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Pillsbury Observatory @ GPSL 2008

Aeronauts,

I had an opportunity to visit the observatory the other night, in fact the night of the eclipse of the moon....very cool!

I met with our representative from the school and was shown around the facilities and of course Deb and I got to peek through the telescope too. One of the things we need to have at least a rough idea of is the numbers of people who might like to go see the observatory on Thursday night July 31. If you think this is something you want to do, please send me a note with the approximate number of people in your family or group that will be attending. I won't hold you to the number and I don't expect there to be a problem but I need to get a handle on what the count will be for planning purposes over at the college.

The observatory visit is open to everyone, your significant other, your kids, your grandma if she is interested, so a quick number from you will go a long way in our planning.

Thanks....

4044. Re: [GPSL] Pillsbury Observatory @ GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-25 23:41:20 UTC
From: wb8elk@aol.com
Topic: 4040 Message: 4044

There will be 2 in my party for the Observatory tour:

- Bill WB8ELK

**********Ideas to please picky eaters. Watch video on AOL Living.
(http://living.aol.com/video/how-to-please-your-picky-eater/rachel-campos-duffy/
2050827?NCID=aolcmp00300000002598)

4045. Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-27 20:30:22 UTC
From: Dan Wietchy
Topic: 3941 Message: 4045

Hello;

Although I understand that many of the balloon launches use either TinyTrak, Kam TNC (3+) or another independent radio modem, I'm curious what hardware and especially what software the ground stations are using to receive the balloon telemetry (Lat/Long/Altitude) information.

Are most folks using UI view for data reception?

thanks

Dan KL1JP

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4046. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-27 20:50:13 UTC
From: Mark Conner
Topic: 3941 Message: 4046
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4047. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-27 20:51:17 UTC
From: rahammond@charter.net
Topic: 3941 Message: 4047

Hi Dan,

I can't speak for everyone, but we use UI-View 32 for all of our ground stations.
I have been playing with TrackPoint written by Nick Hanks N0LP from the EOSS group.

Rog KC0MWM
CNNSP

---- Dan Wietchy <powellite52@...> wrote:
> Hello;
>
> Although I understand that many of the balloon launches use either TinyTrak, Kam TNC (3+) or another independent radio modem, I'm curious what hardware and especially what software the ground stations are using to receive the balloon telemetry (Lat/Long/Altitude) information.
>
> Are most folks using UI view for data reception?
>
> thanks
>
> Dan KL1JP
>
>
> ---------------------------------
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

4048. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-27 23:51:35 UTC
From: Dan Wietchy
Topic: 3941 Message: 4048

Thanks for the information. A few additional questions if I may?

Although I've got a Kantronics 3+ connected and it seems to be working correctly... after all - it seems to connect to the transmitting radio/TNC, I see nothing on the screen when using Hyperterminal other than the regular default connection info from the Kan (ie... the autobaud rate * communication, etc...).

Is there some command I need to send the Kantronics to throw it into Text reception mode so I can review and save exactly what the transmitting radio/TNC is sending? I'm fairly new to Kantronics so pardon my ignorance.

Also, when using the Kenwood TH-D7for receiving, I was under the impression that it only stored the last 18 data strings? How are you or others saving a continual stream of data from the TH-D7?

Thanks again

Dan KL1JP

Mark Conner <mconner1@...> wrote:
Many are indeed using UI-View for plotting APRS reports from a balloon. I'm still using APRS+SA mostly due to inertia, although I do like the program very much even though development has pretty much stopped and the last compatible map database is about 6 yrs old now.
If you want just simple data reception (lines on a screen), a terminal program connected to your TNC will work.
I think the majority of users are using a TNC like a KPC-3 for hardware, which I also use. I use a TH-D7 as a backup and as a way to check the payload transmissions before launch without running back to the laptop in the car. There are quite a few who chase with just a TH-D7 or TM-D700 and no laptop.
73 de Mark N9XTN
www.nstar.org

----- Original Message -----
From: Dan Wietchy <powellite52@...>
Date: Wednesday, February 27, 2008 2:31 pm
Subject: [GPSL] Balloon Telemetry Reception Question
To: GPSL@yahoogroups.com

> Hello;
>
> Although I understand that many of the balloon launches use either
> TinyTrak, Kam TNC (3+) or another independent radio modem, I'm
> curious what hardware and especially what software the ground
> stations are using to receive the balloon telemetry
> (Lat/Long/Altitude) information.
>

> Are most folks using UI view for data reception?
>
> thanks
>
> Dan KL1JP
>
>
> ---
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4049. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-28 02:22:19 UTC
From: Mike Manes
Topic: 3941 Message: 4049

Hi Dan,

If all you are seeing is the autobaud "*" prompt, then it's waiting for
you to hit the "*" key so it can sync to your terminal's baud rate.
It may take several keystrokes before it syncs in - and then you'll
see the normal power-up screen showing 3 lines of text. Next step is
to set MYCALL - the callsign plus SSID for your payload. If the Li
batt on the KCP-3+ is good (<2.5V), then it will power up with the
power-up intro lines every time.

I've standardized on 4800 baud 8 data, 1 stop, no parity for all of
my serial devices. This is also pretty much standard for NMEA data
from GPS engines. 9600 can work, but I've found it to be less immune
to RF than 4800, and lower baud rates are noticeably slow.

My usual advice at this point is to find a comfy spot away from the
keyboard to browse thru Kantronic's excellent manual to learn what to
expect from the TNC and where to look to find out how to make it happen.
"If all else fails, read the book."

Now Hyperterm is kinda buggy - half the time I use it, I have to tweak
around with COM: ports and other settings. There are much better
terminal programs out there, and I think UI-View has a fair to middlin'
terminal mode screen.

73 de Mike W5VSI, EOSS

Dan Wietchy wrote:
> Thanks for the information. A few additional questions if I may?
>
> Although I've got a Kantronics 3+ connected and it seems to be working
> correctly... after all - it seems to connect to the transmitting
> radio/TNC, I see nothing on the screen when using Hyperterminal other
> than the regular default connection info from the Kan (ie... the
> autobaud rate * communication, etc...).
>
> Is there some command I need to send the Kantronics to throw it into
> Text reception mode so I can review and save exactly what the
> transmitting radio/TNC is sending? I'm fairly new to Kantronics so
> pardon my ignorance.
>
> Also, when using the Kenwood TH-D7for receiving, I was under the
> impression that it only stored the last 18 data strings? How are you or
> others saving a continual stream of data from the TH-D7?
>
> Thanks again

>
> Dan KL1JP
>
> */Mark Conner <mconner1@...>/* wrote:
>
> Many are indeed using UI-View for plotting APRS reports from a
> balloon. I'm still using APRS+SA mostly due to inertia, although I
> do like the program very much even though development has pretty
> much stopped and the last compatible map database is about 6 yrs old
> now.
> If you want just simple data reception (lines on a screen), a
> terminal program connected to your TNC will work.
> I think the majority of users are using a TNC like a KPC-3 for
> hardware, which I also use. I use a TH-D7 as a backup and as a way
> to check the payload transmissions before launch without running
> back to the laptop in the car. There are quite a few who chase with
> just a TH-D7 or TM-D700 and no laptop.
> 73 de Mark N9XTN
> www.nstar.org
>
> ----- Original Message -----
> From: Dan Wietchy <powellite52@...>
> Date: Wednesday, February 27, 2008 2:31 pm
> Subject: [GPSL] Balloon Telemetry Reception Question
> To: GPSL@yahoogroups.com
>
> > Hello;
> >
> > Although I understand that many of the balloon launches use either
> > TinyTrak, Kam TNC (3+) or another independent radio modem, I'm
> > curious what hardware and especially what software the ground
> > stations are using to receive the balloon telemetry
> > (Lat/Long/Altitude) information.
> >
> > Are most folks using UI view for data reception?
> >
> > thanks
> >
> > Dan KL1JP
> >
> >
> > ---------------------------------
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> ---
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> it now.
> <http://us.rd.yahoo.com/evt=51733/*http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj

9tAcJ
> >

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4050. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-28 02:34:23 UTC
From: Kent Ochs
Topic: 3941 Message: 4050

Dan,

I highly recommend UIVIEW 32 with Precision Mapping software. We use it connected to a Kenwood D700 with a Garmin GPS-18 attached. It does take a little work to get everything configured correctly. After that, it is so simple that a Caveman and my 10 year old son can use it. My apologies if there are any Cavemen in the group.

73's

Kent Ochs
W9KAO

----- Original Message ----
From: Dan Wietchy <powellite52@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, February 27, 2008 2:30:22 PM
Subject: [GPSL] Balloon Telemetry Reception Question

Hello;

Although I understand that many of the balloon launches use either TinyTrak, Kam TNC (3+) or another independent radio modem, I'm curious what hardware and especially what software the ground stations are using to receive the balloon telemetry (Lat/Long/Altitude) information.

Are most folks using UI view for data reception?

thanks

Dan KL1JP

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<!-- #ygrp-mkp{ border:1px solid #d8d8d8;font-family:Arial;margin:14px 0px;padding:0px 14px;} #ygrp-mkp hr{ border:1px solid #d8d8d8;} #ygrp-mkp #hd{ color:#628c2a;font-size:85%;font-weight:bold;line-height:122%;margin:10px 0px;} #ygrp-mkp #ads{ margin-bottom:10px;} #ygrp-mkp .ad{ padding:0 0;} #ygrp-mkp .ad a{ color:#0000ff;text-decoration:none;} --> <!-- #ygrp-sponsor #ygrp-lc{ font-family:Arial;} #ygrp-sponsor #ygrp-lc #hd{ margin:10px 0px;font-weight:bold;font-size:78%;line-height:122%;} #ygrp-sponsor #ygrp-lc .ad{ margin-bottom:10px;padding:0 0;} --> <!-- #ygrp-mlmsg {font-size:13px;font-family:arial, helvetica, clean, sans-serif;} #ygrp-mlmsg table {font-size:inherit;font:100%;} #ygrp-mlmsg select, input, textarea {font:99% arial, helvetica, clean, sans-serif;} #ygrp-mlmsg pre, code {font:115% monospace;} #ygrp-mlmsg * {line-height:1.22em;} #ygrp-text{ font-family:Georgia; } #ygrp-text p{ margin:0 0 1em 0;} #ygrp-tpmsgs{ font-family:Arial; clear:both;} #ygrp-vitnav{ padding-top:10px;font-family:Verdana;font-size:77%;margin:0;} #ygrp-vitnav a{ padding:0 1px;} #ygrp-actbar{ clear:both;margin:25px

0;white-space:nowrap;color:#666;text-align:right;} #ygrp-actbar .left{
float:left;white-space:nowrap;} .bld{font-weight:bold;} #ygrp-grft{
font-family:Verdana;font-size:77%;padding:15px 0;} #ygrp-ft{
font-family:verdana;font-size:77%;border-top:1px solid #666; padding:5px 0; } #ygrp-mlmsg
#logo{ padding-bottom:10px;} #ygrp-vital{
background-color:#e0ecee;margin-bottom:20px;padding:2px 0 8px 8px;} #ygrp-vital #vithd{
font-size:77%;font-family:Verdana;font-weight:bold;color:#333;text-transform:uppercase;}
#ygrp-vital ul{ padding:0;margin:2px 0;} #ygrp-vital ul li{
list-style-type:none;clear:both;border:1px solid #e0ecee; } #ygrp-vital ul li .ct{
font-weight:bold;color:#ff7900;float:right;width:2em;text-align:right;padding-right:.5em;}
#ygrp-vital ul li .cat{ font-weight:bold;}
#ygrp-vital a{ text-decoration:none;} #ygrp-vital a:hover{ text-decoration:underline;}
#ygrp-sponsor #hd{ color:#999;font-size:77%;} #ygrp-sponsor #ov{ padding:6px
13px;background-color:#e0ecee;margin-bottom:20px;} #ygrp-sponsor #ov ul{ padding:0 0 0
8px;margin:0;} #ygrp-sponsor #ov li{ list-style-type:square;padding:6px 0;font-size:77%;}
#ygrp-sponsor #ov li a{ text-decoration:none;font-size:130%;} #ygrp-sponsor #nc{
background-color:#eee;margin-bottom:20px;padding:0 8px;} #ygrp-sponsor .ad{ padding:8px
0;} #ygrp-sponsor .ad #hd1{
font-family:Arial;font-weight:bold;color:#628c2a;font-size:100%;line-height:122%;}
#ygrp-sponsor .ad a{ text-decoration:none;} #ygrp-sponsor .ad a:hover{
text-decoration:underline;} #ygrp-sponsor .ad p{ margin:0;} o{font-size:0;} .MsoNormal{
margin:0 0 0 0;} #ygrp-text tt{ font-size:120%;} blockquote{margin:0 0 0 4px;}
.replbq{margin:4;} -->

4051. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-28 14:04:47 UTC
From: Mark Conner
Topic: 3941 Message: 4051
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4052. Re: [GPSL] Balloon Telemetry Reception Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-28 17:40:41 UTC
From: Dan Wietchy
Topic: 3941 Message: 4052

Thanks.
I had to issue the following to the Kam3+
MA ON hit a CR
and then type in MCOM ON hit a CR

then it went into the correct mode.
Dan

Mark Conner <mconner1@...> wrote:
> Although I've got a Kantronics 3+ connected and it seems to be
> working correctly... after all - it seems to connect to the
> transmitting radio/TNC, I see nothing on the screen when using
> Hyperterminal other than the regular default connection info from
> the Kan (ie... the autobaud rate * communication, etc...).

Are you getting past the autobaud setup and able to send commands to the TNC? If not, you may have a communication issue between your computer and the TNC.

> Is there some command I need to send the Kantronics to throw it
> into Text reception mode so I can review and save exactly what the
> transmitting radio/TNC is sending? I'm fairly new to Kantronics
> so pardon my ignorance.

No, the data will just appear on the screen when it's received. You will probably want to save the incoming data to a log file (Transfer|Capture Text.. menu in HyperTerm).
> Also, when using the Kenwood TH-D7for receiving, I was under the
> impression that it only stored the last 18 data strings? How are
> you or others saving a continual stream of data from the TH-D7?
You can connect a computer to the TH-D7 or TM-D700 and have it function similar to a regular TNC/radio combo.
73 de Mark N9XTN

Looking for last minute shopping deals? Find them fast with Yahoo! Search.

4053. BASE 21 - 1 March

Yahoo group: GPSL (2002 — 2008)
Date: 2008-02-28 20:59:02 UTC
From: BASE
Topic: 4053 Message: 4053

Dear friends,

BASE 21 will also fly early on Saturday.

Here are the details
(www.depauw.edu/acad/physics/base):

BASE 21 Flight: 2008 March 1

Launch: Crawfordsville High School, Crawfordsville, IN
10:30 UTC

Ascent Rate: target of 1500 ft/min

Burst Altitude: anticipated 90,000 ft

Landing Site: southeast of Columbus, IN approximately
12:00 UTC

Primary payload is an extremely low frequency radio
receiver, a Crawfordsville High School (IN) student
independent research project. Additional payload will
include APRS radio beacon at 144.39 MHz using W9JY-11,
and two digital video cameras.

Howard

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know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4054. BASE 21 - 1 March brief report

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-01 20:31:59 UTC
From: BASE
Topic: 4053 Message: 4054

Dear all,

BASE 21 was a successful flight. Back-up computer issues and predawn assembly at 0 Celsius delayed the launch until 11:15 UTC. Steady climb at about 1500 ft/min, burst at 95,000 feet ASL and landing in southeastern Jennings County. Despite fast flight, tracking vehicle kept 900 MHz signal throughout flight until system reached 2500 feet ASL. Recovered signal as we approached the last known location.

Two troubles:

1) intermittent APRS radio beacon, I suspect a power supply wire connection issue. Schedule called for position report every 2 minutes with BASE-21 DePauw on every fourth transmit. This clearly did not happen. Last points (e.g., aprs.fi/w9yj-11) are at the landing site.

2) Entire system caught in two trees in small grove approximately 30 meters above ground.

Retrieval delayed until next week. For those keeping score, we're 21 for 21 with two lake landings and seven in trees above 30 feet.

Howard

Never miss a thing. Make Yahoo your home page.
http://www.yahoo.com/r/hs

4055. An Old Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-02 19:14:18 UTC
From: Joe
Topic: 4055 Message: 4055

Hi Everyone,

I was digging through the old video pile looking for that hold hack line footage, and i found this.

What a blast from the past, Guess who?

http://www.youtube.com/watch?v=t71v8z98Bn8

Joe & NSS

4056. Re: [EOSS] Re: [EOSS_Trackers] EOSS 126: Grids and Tacticals

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-03 00:22:16 UTC
From: Joe
Topic: 4056 Message: 4056

Video is posted..

Mike Manes wrote:

> Hi Joe,
>
> "Painter line" is a naval term for a rope used to control the position
> of a load suspended by crane - since it was a Navy guy's idea, I figgered
> it was a workable term - ya landlubber :=}.

Ok got that now,,

>
> Yeah, the load ring was supplied as part of the ZP plastic balloon. The
> student payload was a solar UV telescope weighing some 28 lbs, and it
> had to float at 100K' for several hours to meet mission requirements.
> In retrospect, running the painter and lift line thru the same ring
> wasn't a swell idea. However, I can see that tying a loop as a hitch
> on a bight in the lift line might work better, even if the painter line
> saws thru the loop; the knot should remain intact.

Exactly, and if youre worried about it twisting, ya jut make it longer

>
> We've also used 1200 gm balloons to hold up a 160m 5/8 wave wire (#26
> AWG)
> for FD. It worked great while the wind was calm, but when it got up
> over 20 kt, the balloons banged into the deck and burst. The painter
> line will become less effective as the wind speed increases, especially
> if it's a 3000 gm, which is about 18 ft tall at full inflation for
> a 25 lb neck load.

Heres the launch video,

http://www.youtube.com/watch?v=Mj3kYdncd_U
Joe & NSS

>
> Joe wrote:
>
>> Hi Mike,
>>
>> I need some clarification, as to how you guys set it up. Thoughts
>> below,,
>>
>> Mike Manes wrote:
>>

>>> Hi Joe,
>>>
>>> We tried that only once - on EOSS-6. That "painter line" used to hold
>>> the balloon in place until the payload string was off the ground,
>>>
>> "Painter Line" why did-do you call it this, just wondering?
>>
>>> and
>>> then one end was released ended up sawing thru the main payload support
>>> line on the lift ring, allowing it to drop away.
>>>
>> Maybe the ring wasn't the way to go? too close to the support
>> line? So it could easily twist around the line? Ya know tortional
>> foot pounds and all that?
>>
>> When we do it, we don't use a ring or anything like that, we just
>> grab a length of the main support line, make a loop that is between
>> 1 to 3 feet long, and tie it there. so the point where the "Hold
>> Back" line actually passes through is at least 1 to 3 feet away from
>> the support line.
>>
>> This way with he LONG distance there is a lot of foot pound action
>> happening and it just does not twist around the main support line ever.
>> even if it did start to twist, it would have to twist, maybe a
>> hundred times in only one direction, to wind up the loop and get the
>> "Hold Back" line close to the support line. And as you know they
>> don't twist in only one direction. they go back and forth in rotation.
>>
>> So I'm thinking this is what happened. with your ring there was no
>> g force to keep it from twisting, and since it's a solid, only a
>> single rotation would make a wrap of the "Hold Back" line around the
>> main support line, and I AGREE THIS WOULD BE VERY BAD.
>>
>> Whereas with the rope ring so to speak, it can twist almost all it
>> wants to, with no effect.
>>
>> Just my 2 cents.
>>
>> Joe
>>
>>> That wouldn't have been
>>> so bad has we not been flying a zero pressure plastic with a rip
>>> panel that was tied to a slack line. The rip panel didn't open up,
>>> however, so the balloon continued aloft with a dent in its side. And
>>> the burner on that line got disconnected in the meantime - so we had
>>> NO way to bring the flight down, other than to wait for theovernight
>>> chill to ease it back to the deck. Which it did at 0430 the next
>>> morning, about 128 miles downrange. It was our one and only derelict.
>>>
>>> So I guess one caveat to your method is make sure that the painter line

>>> doesn't share the same ring as the lift line, and that it doesn't get
>>> twisted with it, either.
>>>
>>>
>> I am confused here, please explain this sharing?
>>
>>> Another is that this works OK for short payload lines. But if you're
>>> running up a string of 10-12 packages on a 50-75 ft line, it's tough
>>> to keep the balloon from blowing over and hitting the deck.
>>>
>>>
>> This is EXACTLY why we started using the "Hold Back" lines is for
>> long payloads. Short ones we never bother with it, but when we
>> exceed 100 feet we always use it even for calm day launches And we
>> have had better luck keeping a balloon from "Hitting the deck' using
>> it than without, One 6 foot person trying to keep it off the ground
>> in extreme winds we found was a challenge to say the least, as seen
>> in many other groups videos also., But even on super windy days 30
>> MPh steady and 40 gusts, with the LONG hold back the balloon sits
>> close to 100 feet above ground, yes it bounces all over the place,
>> probably close to the same amount as it does when the 6 foot tall
>> person is holding it,, possibly even more, but we don't care
>> because it's 100 feet above the ground..
>>
>> Joe.
>>
>>> We've used to the "Hail Mary" launch method for 120 flights since, and
>>> although it does give tail end charlie a run for the money, a well
>>> briefed and aligned team gets the job done well.
>>>
>>> And our usual practice is to keep the lines a bit taut during launch.
>>> This time, we learned why!!
>>>
>>> 73 de Mike W5VSI
>>>
>>> Joe wrote:
>>>
>>>
>>>> Howdy all,
>>>>
>>>> Joe here from NSS,
>>>>
>>>> I'll try to post this image in this E Mail at the bottom, but
>>>> just in case the group is set up to block images it is also located
>>>> at,
>>>>
>>>> http://www.dzsp.org/Launcher-50.jpg
>>>>
>>>> I see all the time groups launching in the wind, and hear stories
>>>> just like the one below about a rough takeoff.

>>>>
>>>> I cringe when I see videos of payloads being jerked form handlers
>>>> hands, and watch them bouncing along the ground till if it's lucky
>>>> it finally gets off the ground.
>>>>
>>>> We offer for the ballooning community what we do here at Near Space
>>>> Sciences. we have launched in every type of weather, from Dead
>>>> calm, to winds blowing 20 to 30 MPh with 40 Mph gusts. And the
>>>> payload gets no more stress that it does hanging from my ceiling
>>>> here in my room.
>>>>
>>>> It is so simple, and adds absolutely no weight to the payload., And
>>>> the payload is actually airborne for as long as we wish before it
>>>> actually takes off.
>>>>
>>>> What we do is below the balloon,, but above the chute we tie a loop
>>>> of the support line.
>>>>
>>>> Through this loop we thread as long as needed a line of strong
>>>> string. Length all depending on how windy it is. If it's a mild
>>>> breeze, a length of line that is long enough to allow the payload
>>>> to be airborne may be only a few yards longer than the flight train
>>>> itself.
>>>>
>>>> But in very windy conditions we have gone as long as a foot ball
>>>> field even!
>>>>
>>>> The launch is very simple, everything is laid outside ready for
>>>> flight (of course except for the balloon of course)
>>>>
>>>> The "Hold Back Line" is threaded through the loop. and the "hold
>>>> back person" holds both ends and is stationed up-wind from the
>>>> launch site.
>>>>
>>>> And the balloon is attached and slowly hand over hand is raised
>>>> above their heads, while the hold back person keeps it positioned
>>>> directly above their heads.
>>>>
>>>> Eventually the whole payload string is airborne, but not going
>>>> anyplace.
>>>>
>>>> Finally when we want liftoff so to speak to happen, the "Hold Back
>>>> Person" releases only one end of the"Hold Back Lines"
>>>>
>>>> The line begins to slip through the loop, and the payload starts to
>>>> rise straight up, nearly vertically. finally the end of the hold
>>>> back line goes through the loop, and the payload is flying, safe,
>>>> sound, and absolutely no jerks, or any extra stress whatsoever. no
>>>> matter how windy it is.
>>>>

>>>> This is sooo simple, and we do it on all our flights.
>>>>
>>>> Joe
>>>>
>>>> If the image is below cool,, if not remember it's also at
>>>> http://www.dzsp.org/Launcher-50.jpg
>>>>
>>>> Thanks for the post, Rick.
>>>>
>>>> Turns out the barometrically-operated locking arm on the fast release
>>>>
>>>>> probably< got displaced during the sudden acceleration (aka
>>>>> "jerk") due
>>>>
>>>> to slack in the line between the balloon and the release device on top
>>>> of the parachute. Since it was calm at launch, we had bunched up the
>>>> payload handlers close to the balloon to save "Tail End Charlie" from
>>>> having to run a 50-yard dash to get under the balloon.
>>>>
>>>> We were able to duplicate that effect by hand after we re-rigged the
>>>> release for the backup balloon. So the corrective action was to remove
>>>> the slack from that line before launch so that the acceleration would
>>>> be nice and steady.
>>>>
>>>> It worked! Yet another lesson in EOSS's long saga in pursuit of the
>>>> perfect flight! And it was a very pretty launch.
>>>>
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>>>> Yahoo! Groups Links
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>>
>> [Non-text portions of this message have been removed]
>>
>>
>>
>>
>> Yahoo! Groups Links
>>
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>>
>>
>>

>

4057. WB8ELK Indiana Workshop payload recovered near Lexington KY

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-03 02:40:07 UTC
From: wb8elk@aol.com
Topic: 4057 Message: 4057

I arrived at the landing site after midnight....as I approached the exit just north of Lexington KY, I could hear my voice beacon and could talk through the simplex repeater even though they were almost 2 miles away and as it turned out were all lying on the ground....(I had reports of stations in MI, IL, IN, OH and possibly IA and GA all working through the simplex voice repeater.)

Landing position: 38d 07.04m 84d 28.79m

Dr. Robert Downing of Lexington was kind enough to let me drive in at midnight to retrieve the payloads from his property.

I drove right up to a large metal garage and found the payloads and parachute lying right next to the garage building along a narrow 4-foot wide walkway very near where the FindMeSpot satellite GPS tracker was indicating....just over the fence to the right of the walkway was a field of knee-deep mud. I suspect that it may have landed on the roof of the garage and slid down onto the walkway.

The FindMeSpot payload was actually upside down and it's amazing it was able to send its position up to the satellite at all.

The cameras were all intact and all but one still camera took some great images...I'm still reviewing them all. The video cameras (RCA Small Wonder) apparently have an undocumented 60 minute max record time, even if the total memory available is 120 minutes....so we have great videos of the launch from various payload perspectives but the videos stop at around 48,000 feet during the ascent stage....we do have some great photos of the parachute descent from various perspectives and a couple of photos just a few hundred feet away from landing. We flew 4 Canons and 3 RCA video cameras looking up, down and at the horizon.

We were flying the Canon 7.1 megapixel A560 and A570 series digital still cameras with the CHDK intervalometer microBasic mod that was mentioned by Mark Conner a few weeks back. It works great and you can easily make the camera do all kinds of things with a few custom microBasic commands.

I found out why the WB8ELK-11 APRS tracker failed just after burst....I was testing out the lightweight Byonics SMA wire antenna and it was neatly snapped right off at the connector....so next time we will attach the antenna to a support rod.....it was actually still transmitting it's position when I got close enough to hear it without it's antenna. The second tracker (WB8ELK-12) failed at liftoff.

The FindMeSpot GlobalStar tracker worked great and as suspected stopped reporting above 60k feet, BUT came back to life again on descent and really saved the mission since it sent us the actual landing site within 10 minutes after touchdown. I'll post more on these results soon. It reports every 10 minutes

directly to the GlobalStar satellite network and shows up on a website....lat/lon but no altitude info. Their statement that it wouldn't work above 27,000 feet was unfounded as we had accurate reports right up to 60k feet both ascending and descending. This is a great alternative to APRS for final landing site location since it will report its position even when way outside the range of digipeater coverage.

I will be posting some select photos and maps of the flight path and landing site to my website later tonight.

- Bill

**********Ideas to please picky eaters. Watch video on AOL Living. (http://living.aol.com/video/how-to-please-your-picky-eater/rachel-campos-duffy/2050827?NCID=aolcmp00300000002598)

4058. Amateur Television Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-03 17:23:35 UTC
From: ATVQ
Topic: 1887 Message: 4058

How time flies! It is time to start thinking about the Spring 2008 issue of Amateur Television Quarterly.

Articles are needed by April 1st.

Any good technical things going on for your ATV station or ATV repeater?

Is your club having any activities that involve ATV? Now is your chance to tell the world!

Any ATV DX going on in your life? If so, send pictures and info to Bob Delaney - KA9UVY at ka9uvy@... so he can write another ATV DX column.

We will have information about what will be happening for ATV at the Dayton Hamvention as the information is already coming in.

We will also have information about the ATV Contest for 2008. Any ideas for change this year that would make it more popular? I am open to hear what you have to say.

Got something ATV related to sell? Send the Want AD / FOR SALE items to be listed to atvq@... and they will be listed FREE space permitting.

Thanks to those that have already sent their articles in. I guess I better get started early!

Gene Harlan - WB9MMM
NEW - Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

4059. Re: [GPSL] An Old Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-03 17:41:11 UTC
From: Mark Garrett
Topic: 4055 Message: 4059

Hi Joe:

Well everyone knows that is none other that Bill Brown, WB8ELK in his more youthfull days at Jeff's, KA9TGX's video center near West Lafayette, IN. Bill could probably center the date better than myself but would guess around 1989 or 1990. Jeff Kerssemakers had a full effects switcher including inputs from several cameras including one at his mailbox at the end of his lane and several satelitte feeds. Very impressive for any ATV'er that would catch him on the band.

Mark Garrett, KA9SZX

----- Original Message ----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sunday, March 2, 2008 1:14:18 PM
Subject: [GPSL] An Old Video

Hi Everyone,

I was digging through the old video pile looking for that hold hack line
footage, and i found this.

What a blast from the past, Guess who?

http://www.youtube. com/watch? v=t71v8z98Bn8

Joe & NSS

_____
Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4060. Re: [GPSL] An Old Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-03 18:03:19 UTC
From: Joe
Topic: 4055 Message: 4060

Funny huh?

Mark Garrett wrote:

> Hi Joe:
>
>
>
> Well everyone knows that is none other that Bill Brown, WB8ELK in his
> more youthfull days at Jeff's, KA9TGX's video center near West
> Lafayette, IN. Bill could probably center the date better than myself
> but would guess around 1989 or 1990. Jeff Kerssemakers had a full
> effects switcher including inputs from several cameras including one
> at his mailbox at the end of his lane and several satelitte feeds.
> Very impressive for any ATV'er that would catch him on the band.
>
>
>
> Mark Garrett, KA9SZX
>
>
>
> ----- Original Message ----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Sent: Sunday, March 2, 2008 1:14:18 PM
> Subject: [GPSL] An Old Video
>
> Hi Everyone,
>
> I was digging through the old video pile looking for that hold hack line
> footage, and i found this.
>
> What a blast from the past, Guess who?
>
> http://www.youtube. com/watch? v=t71v8z98Bn8
> <http://www.youtube.com/watch?v=t71v8z98Bn8>
>
> Joe & NSS
>
>
>
> ---
> Looking for last minute shopping deals? Find them fast with Yahoo!
> Search.

> <http://us.rd.yahoo.com/evt=51734/*http://tools.search.yahoo.com/newsearch/category.php?category=shopping>
>

4061. Re: [GPSL] An Old Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-04 01:07:03 UTC
From: wb8elk@aol.com
Topic: 4055 Message: 4061

Mark, that is exactly right....that was in Jeff KA9TGX's amazing ATV studio in West Lafayette, IN...and about 1989.....I'm still trying to find that girl...she keeps disappearing on me.

- Bill WB8ELK

**********It's Tax Time! Get tips, forms, and advice on AOL Money & Finance. (http://money.aol.com/tax?NCID=aolprf00030000000001)

4062. 7805 Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-07 18:37:31 UTC
From: Joe
Topic: 4062 Message: 4062

Hi All,

Just thinking here,, this is almost too simple but yet i don't know if anyone has tested one.

say the super basic 7805, we all have used hundreds of these,, on hundreds of flights, but has anyone ever tested them to see what they actually put out in voltage with the wide variances of temps we experience?

Anyone?

Joe

4063. Re: [GPSL] 7805 Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-07 23:06:05 UTC
From: Mike Manes
Topic: 4062 Message: 4063

Hi Joe,

I use one in the AE0SS-11 module where we've measured internal temps
as low as -10C with no problems. But of course, since the 7805 is
dissipating power, its die temperature is gonna be a lot higher.
Mine is bolted to a 2" square sheet of 15 mil aluminum sheet as
a heat sink and dissipates an average of (8.6 - 5) x 0.25A = 0.9W.

I use the heat sink as a radiator, since at 10 mbar, there's very
little free convective heat transfer, so the risk there is the
die temp exceeding +150C rather than getting too cold. Bare Al
radiates far IR quite nicely.

73 de Mike W5VSI

Joe wrote:
> Hi All,
>
> Just thinking here,, this is almost too simple but yet i don't know if
> anyone has tested one.
>
> say the super basic 7805, we all have used hundreds of these,, on
> hundreds of flights, but has anyone ever tested them to see what they
> actually put out in voltage with the wide variances of temps we experience?
>
> Anyone?
>
> Joe
>
>
>
> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4064. Re: [GPSL] 7805 Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-07 23:45:11 UTC
From: Joe
Topic: 4062 Message: 4064

Good point Mike, as far as it being warm doing it's job so to speak,

Hmmm, I wonder what it does if it was connected to something in a sleep mode where it could get cold, then have to regulate some. hmmm

Joe

Mike Manes wrote:

>Hi Joe,
>
>I use one in the AE0SS-11 module where we've measured internal temps
>as low as -10C with no problems. But of course, since the 7805 is
>dissipating power, its die temperature is gonna be a lot higher.
>Mine is bolted to a 2" square sheet of 15 mil aluminum sheet as
>a heat sink and dissipates an average of (8.6 - 5) x 0.25A = 0.9W.
>
>I use the heat sink as a radiator, since at 10 mbar, there's very
>little free convective heat transfer, so the risk there is the
>die temp exceeding +150C rather than getting too cold. Bare Al
>radiates far IR quite nicely.
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>Hi All,
>>
>>Just thinking here,, this is almost too simple but yet i don't know if
>>anyone has tested one.
>>
>>say the super basic 7805, we all have used hundreds of these,, on
>>hundreds of flights, but has anyone ever tested them to see what they
>>actually put out in voltage with the wide variances of temps we experience?
>>
>>Anyone?
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>>Joe
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>>Yahoo! Groups Links
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4065. Re: [GPSL] 7805 Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-08 01:29:58 UTC
From: Mike Manes
Topic: 4062 Message: 4065

Well, I think the plain vanilla 7805 is rated over just the commercial 0 - 70C ambient temp range with max junction temp of 125C for the plastic TO220 package. (The TO3 is good to 150C). However, I know that we fly a lot of comm'l temp range parts in our payloads, many of which dissipate pea-power with no problems.

If you're really worried, consider replacing the LM7805T with a LM140K in a TO3 package - it's good down to -55C. But be sure to have your D&B number handy when ya order :={. I'm sure there are newer +5 regs out there that are tighter, cleaner and run colder, but I'm not gonna look 'em up right now.

The best way to find out if your stuff works when cold is to cold-soak it and do a functional test. If you're confident that your enclosure will keep things above -15C, then a regular old food freezer set to zero F (-16C) will do the job. Just leave the unenclosed and unpowered stuff in there for a few hours along with a box big enough to hold it. Then pop the stuff out and put it in the box to keep it from warming too fast and test it.

You can use dry ice to get down to -80C, and that might be right for a payload that's gonna fly overnight with little or no power dissipation. But for a daytime latex burster, that's overkill; even the latent heat from pre-launch will keep things from cooling too quickly before you're back on the deck.

I've only found one cold-soak failure: the flyback dc-dc converter in a cheap geiger counter - it crumped below 0C (32F). And I think the PocketTracker is also a tad sensitive based on when it's gone QRT in flight - but I've never cold-soaked one.

73 de Mike W5VSI

Joe wrote:
> Good point Mike, as far as it being warm doing it's job so to speak,
>
> Hmmm, I wonder what it does if it was connected to something in a sleep
> mode where it could get cold, then have to regulate some. hmmm
>
> Joe
>
> Mike Manes wrote:
>> Hi Joe,
>>
>> I use one in the AE0SS-11 module where we've measured internal temps
>> as low as -10C with no problems. But of course, since the 7805 is

>> dissipating power, its die temperature is gonna be a lot higher.
>> Mine is bolted to a 2" square sheet of 15 mil aluminum sheet as
>> a heat sink and dissipates an average of (8.6 - 5) x 0.25A = 0.9W.
>>
>> I use the heat sink as a radiator, since at 10 mbar, there's very
>> little free convective heat transfer, so the risk there is the
>> die temp exceeding +150C rather than getting too cold. Bare Al
>> radiates far IR quite nicely.
>>
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> Hi All,
>>>
>>> Just thinking here,, this is almost too simple but yet i don't know if
>>> anyone has tested one.
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>>> say the super basic 7805, we all have used hundreds of these,, on
>>> hundreds of flights, but has anyone ever tested them to see what they
>>> actually put out in voltage with the wide variances of temps we experience?
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>>> Anyone?
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>>> Joe
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>>> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4066. Canon A570IS for $131 & N0KKZ Intervalometer mod

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-08 04:28:55 UTC
From: Mike Manes
Topic: 4066 Message: 4066

Hi,

The Canon A570IS that Rick installed the intervalometer CDHK software
on can be had for $131 on the web:

http://www.everyprice.com/item.asp?item_id=161824&partner=g123&keyword=canon_a570_digital_
camera&gclid=CMvOrPDU_JECFSbHIgodSnfE3w&ZipCode=80128&submit=Calculate

What a huge URL! You might have to piece it together.

See Rick's code and dox along with a neat video at:
http://www.eoss.org/hardware/canon_a570is.htm
Single-button payload prep!

73 de Mike W5VSI
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4067. Space Elevator Contest

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-08 16:59:03 UTC
From: Hank
Topic: 4067 Message: 4067

This is a little different. If you read all the pages there
is a balloon connection.

http://www.spaceward.org/

Hank

4068. Re: [GPSL] Space Elevator Contest

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-08 21:28:29 UTC
From: Joe Lynch
Topic: 4067 Message: 4068

Hi Hank,

Can you please send me the URL that has the mention of balloon. Thank you.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

4069. Pre-Launch Notice for Spirit of Knoxville IV Balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-09 20:01:52 UTC
From: Daniel Bowen
Topic: 4069 Message: 4069

Hello,
Spirit of Knoxville IV (SNOX IV) launch date has been set. This flight is designed to stay aloft for more than 24 hours, inserted into the current jet stream at normal flight altitudes of 30,000 to 40,000 ft. This will take the balloon into Europe over the UK and France if all goes well around 40 hours into the flight.

Launch Time: 0300 UTC March 11 (10 PM EDT March 10)
Track the mission live at: http://www.spiritofknoxville.com (the Live status page will only become active at launch)
Keep an eye on the latest progress from the launch team on the front page of spiritofknoxville.com or by using twitter to follow twitter user "spiritofknox".

Radio listeners: Flight radio details will be available on the DTRC status page which opens when you run the current version of DTRC. Download DTRC from http://dtrc.utarc.org

Thanks,
Spirit of Knoxville Crew

4070. SNOX IV balloon launch time correction: 0200 UTC not 0300 UTC

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-09 20:10:26 UTC
From: Dan Bowen
Topic: 4070 Message: 4070

SNOX IV balloon launch time correction: 0200 UTC March 11 (not 0300),
10PM EDT March 10
Thanks,
Spirit of Knoxville Crew

4071. Re: [GPSL] 7805 Regulator

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-10 13:52:33 UTC
From: PAUL VERHAGE
Topic: 4062 Message: 4071

I use the LM2940 for my electronics and they seem to work well. According to my measurements, my capsule interiors don't drop below 0C except for a few minutes early in the descent.

Paul

4072. Re: [GPSL] Space Elevator Contest

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-10 13:59:25 UTC
From: PAUL VERHAGE
Topic: 4067 Message: 4072
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4073. Re: Space Elevator Contest

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-10 18:32:20 UTC
From: Hank
Topic: 4067 Message: 4073

> Can you please send me the URL that has the mention of balloon.

Sure, Joe.

It's here:

http://www.spaceward.org/elevator2010-pb

The balloon's function is to hold up a 1 kilometer tether.

4074. SNOX live mission chat

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-10 20:49:05 UTC
From: Dan Bowen
Topic: 4074 Message: 4074

Hi all,
We're trying out a chatroom on this flight for DTRC users and
interested people to converse about the flight in progress with us and
eachother.

You can get to the chat from the DTRC Status Page at:
http://dtrc.utarc.org/status.php

If you use IRC, you can get there by connecting to
oasis.liveharmony.org channel #SNOX

Thanks,
Dan-K2VOL
Spirit of Knoville
UTARC

4075. Re: [Ballooning] ATV transmitter for balloon.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-10 22:57:40 UTC
From: Mike Manes
Topic: 4075 Message: 4075

Hi Bruce,

EOSS also flies the PC-Electronics KPA-5 1W 70cm AM xmtr. But it
pulls 6W of dc power, so payload weight is dominated by batteries
and dc-dc converter.

We're looking at going to 1.2 GHz WBFM using a high efficiency
modulated 3W power oscillator. A CU researcher was able to get
85% dc-to-RF power at 2.45 GHz using an LDMOS single-ended oscillator.
WBFM yields a better SNR for a given received signal power so long
as the IF is in limiting, provided proper pre-emphasis is applied.
This is why the old analog direct broadcast satellite TV used that mode.
Just haven't found the required Round Tuit to get back on that project.

Provided that bit works OK, an Alford Slot antenna appears to offer
an omni pattern with gain and horizontal polarization as well as
mechanical robustness and light weight suitable for balloon flight.

If one can find an old analog sat TV set-top box, one has a downconverter
with demod and both line and Ch3 RF outputs.

73 de Mike W5VSI

Bruce Coates wrote:
> Hi
>
> Our radio club will be launching it's first balloon this spring. We
> already have a 1 watt, 70cm ATV transmitter built but we're also
> thinking ahead to future flights. I'm wondering what people's
> experience is with ATV on balloons. I've been looking quite a bit the
> web and eBay and find that there are quite a few different systems
> available. There are 440 MHz AM transmitters, and FM units for 900,
> 1200 and 2400 MHz ham bands. The available power ranges for tens of
> milliwatts to a couple of watts. So my question is, if you were
> building your "idea" ATV transmitter for a balloon flight what would you
> choose?
>
> Band? (440, 900, 1200, 2400)
> AM vs. FM
> Power level (milliwatts, 1 or 2 watts)
> Antenna (whip, dipole, gain antenna directed downward, etc)
>
> Thanks
>
> Bruce - VE5BNC
>

>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4076. FAA regulations on moored balloons

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-11 01:19:39 UTC
From: Mike Manes
Topic: 4076 Message: 4076
Attachments: 1 described; binary payloads are missing from this source WARC

Hi,

14 CFR 101, Subpart B covers FAA regulations on moored balloons and basically prohibits them above 500 feet above the surface. Even so, notice to the FAA is required, as is lighting of the balloon and tethers at night.

I've attached a copy as a Word .doc file, FYI.

You may be able to get a waiver for this event, however, by filing FAA Form 7711-2 with your local FAA Airways and Procedures Office at least 45 days prior to the planned deployment. They may require that you carry an ATC Mode C transponder on the balloon as well.

Best regards,
Mike Manes
CTO, Edge of Space Sciences Inc
www.eoss.org

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4077. SNOX stillllllllll going

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-11 13:27:29 UTC
From: Greg Williams
Topic: 4077 Message: 4077

UTARC UX-20-something is over the Atlantic, telemetry received is putting distance (Great Circle) at 1176.50 mi, which is currently #3 on Ralph's record page.

If the balloon remains in it's current state (and all indications are it will), the distance record will be met before noon ET later today.

Onward and Eastward...Balloonus Maximus!

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4078. Spirit of Knoxville balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-11 14:01:58 UTC
From: Mark Conner
Topic: 4078 Message: 4078
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4079. Re: [UTARC Chat] SNOX stillllllllll going

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-11 14:41:03 UTC
From: K. Mark Caviezel
Topic: 4077 Message: 4079

UTARCs:
Wow, this has been a lot of fun to watch so far.
And it will just get even more fun as the flight
progresses.

Go! SNOX ! GO!

- Mark ng0x

--- Greg Williams <gregwilliams@...> wrote:

> UTARC UX-20-something is over the Atlantic,
> telemetry received is
> putting distance (Great Circle) at 1176.50 mi, which
> is currently #3 on
> Ralph's record page.
>
> If the balloon remains in it's current state (and
> all indications are it
> will), the distance record will be met before noon
> ET later today.
>
> Onward and Eastward...Balloonus Maximus!
>
>
> --
>
> Gregory S. Williams
> gregwilliams(at)knology.net
> k4hsm(at)knology.net
>
> http://www.etskywarn.net
> http://www.twiar.org
> http://www.icebearnation.com
>
>
> _____
> chat site list
> chat@...
> http://deathstar.asa.utk.edu/mailman/listinfo/chat
>

4080. Snox IV Status Update

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-11 16:20:26 UTC
From: Mike Coffey
Topic: 4080 Message: 4080

Hello all,

UTARC is excited to announce that Snox IV has comfortably broken the earlier great circle distance record of 1411 miles, set by Bill Brown in 2005. At 16:01 UTC (12:01 EDT), the balloon had traveled 1511 miles due east of the launch site, and was continuing to track in that direction at well over 100 MPH. The DTRC network is continuing to send back reports, and 142 stations have sent data. The experimental dashboard that we are using for this flight has been performing fairly well, considering the load on our servers: more than 3 million file accesses in the last 12 hours! Ballast is being used at a higher rate than expected, but we still have 3/4 of our tank left. Feel free to drop by our site at spiritofknoxville.com for more details.

73,
Mike
KJ4Z
Snox Balloon Team

4081. SNOX IV still airborne

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-12 17:10:17 UTC
From: Mark Conner
Topic: 4081 Message: 4081

Altitude has dropped to about 20,000 ft but still going. Latest position is roughly 500 mi WSW of Ireland and from the satellite imagery it is probably flying in some cloud. Current track looks to be near the western tip of England by around 02Z tonight and near Paris about 06Z, then southeasterly towards the Adriatic by 12Z.

Even if the altitude drops tonight, the winds are roughly the same direction but lighter, still resulting in landfall in northwestern France in the early morning hours Europe time (if the English coast is missed).

It will be interesting to see if enough altitude can be maintained after the sun sets there in 2-3 hours, though if it is already in cloud it's probably not getting a lot of sun now anyway.

http://www.spiritofknoxville.com/dashboard/dashboardus.html
http://www.spiritofknoxville.com

73 de Mark N9XTN

4082. Re: [Balloon_Sked] SNOX live mission chat

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-13 03:49:16 UTC
From: Mike Manes
Topic: 4074 Message: 4082

Hi Dan,

Just peeked at the last dashboard report. Congrats on setting a
new DX record for a flight, but it must be frustrating to have
missed landfall in EI-land by just 250 or so miles. Don't give up!

73 de Mike W5VSI, EOSS

Dan Bowen wrote:
> Hi all,
> We're trying out a chatroom on this flight for DTRC users and
> interested people to converse about the flight in progress with us and
> eachother.
>
> You can get to the chat from the DTRC Status Page at:
> http://dtrc.utarc.org/status.php
>
> If you use IRC, you can get there by connecting to
> oasis.liveharmony.org channel #SNOX
>
> Thanks,
> Dan-K2VOL
> Spirit of Knoville
> UTARC
>
>
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4083. Fw: BioLaunch B08A and B08B recovery results

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-13 15:49:43 UTC
From: Ralph Wallio, W0RPK
Topic: 4083 Message: 4083

Stratofox recovery story of latest Stanford University flights. http://www.stratofox.org/
--W0RPK

Date: Sat, 8 Mar 2008 20:59:16 -0800
From: Ian Kluft <ikluft@...>
To: Stratofox Tracking Team <[...]>
Cc: Stratofox Amateur Aerospace Talk list <talk@...>
Subject: Re: [Trackers] B08A & B recovered!

On Sat, Mar 08, 2008 at 01:44:13PM -0800, Craig Anderson wrote:
> Just got a text message from Ian that both balloons
> were launched and both were recovered near Merced.
> The groups are having lunch in Merced now.

Thanks for forwarding that Craig.

It was a good day today! Let's see if I can make a start at a summary
and crediting people who helped. It is my intent to include everyone
so any omissions are unintentional.

We had excellent attendance. Stratofox Teams 1, 3 & 6 started from the
launch site at Galt (south of Sacramento). Stratofox Teams 2, 4 & 5
started from a rendezvous point near the projected landing zone at the
Madera Airport (north of Fresno). All the Stanford teams started at
the launch site.

B08A reached ~107,000' and landed in a field just outside the perimeter
fence of Merced College (about 3 miles SW of the recently-built UC Merced.)
If it had landed any further west it would have been in town. Ironically,
the Stratofox teams coming from the south (and one from the north) recovered
the package that landed to the north. But the reason is because that was
the one already on the ground at the time those teams got to Merced.

B08A carried the NASA BioLaunch research payload and a string of "PearlSat"
K12 school experiments. The K12 experiments were from a school in Louisiana,
who were reportedly watching the flights and searches via APRS tracking over
the Internet.

B08B reached ~68,000' (as high as intended for that payload.) It landed
south of Merced near Hwy 99 and conveniently near an exit. (Unlike last
December when B07E landed near I-5 but 10 miles from any exit). With B08A
already well-covered, the remaining teams coming from the north bypassed
Merced and went direct to B08B. Dr Cutler and his crew were first to reach
it. Almost everyone, including the crews who had just recovered B08A, got
a look before it was picked up.

B08B carried a Stanford satellite electronics & captive-carry solar sail for testing, and cameras.

Then we rendezvoused at the Merced Airport where we suggested Stratofox Air should land so we could pick them up. From there we all went to lunch.

I'll thank the Stanford crews as a group - they probably won't publicize their roster. The Stratofox participants today were...
Stratofox 1 Dave Brock N6DCB from Sacramento
Stratofox 2 Ian Kluft KO6YQ and Heather Stern KG6ZYC from San Jose
Stratofox 3 Bernhard Hailer AE6YN and Brad Douglas KB8UYR from Fremont
Stratofox 4 Christina Mester AF6BW and Andy Selle KI6JQU from Stanford
Stratofox 5 Bob Verish from Los Angeles (San Fernando Valley)
Stratofox 6 Lowell Gordy AF6BI from San Jose
Stratofox Air Dave Goodin KI6KGP, Joel Goodin and Jack ??? from San Jose

(Sorry, I didn't catch Jack's last name. He's a Stanford student who arranged to come along with Dave in the plane. Dave said he was very helpful. He also mentioned that he's studying for his Amateur Radio license. So don't be surprised if we see him becoming a Stratofox invitee and then member at upcoming events.)

As I made the list above, I noticed most of the members participating today earned their memberships last year...
* Dave Brock and Brad Douglas qualified at Crater Assault 1 at Black Rock in January 2007
* Christina Mester, Andy Selle and Lowell Gordy qualified at Biolaunch B07C in Central California in June 2007
* Bernhard Hailer and Bob Verish qualified at Stratofox's assistance to the Fossett search in Western Nevada and Eastern California in September 2007

Heather rode with Bob during the search as his radio operator.

Stanford plans more BioLaunch flights. Some experiments such as a rover and UAV glider will need to be flown away from populated areas. Those are tentatively planned to fly at Black Rock in early Summer. For folks on the talk and invitees lists, I'll mention that anyone who's interested in participating should let us know. We have a separate mail list for planning BioLaunch events, which you'll only be included on if you are or become at least an invitee, and express interest in helping with BioLaunch.

----- End forwarded message -----

4084. Dayton Hamvention High Altitude Balloon Forum

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-13 20:31:05 UTC
From: wb8elk@aol.com
Topic: 4084 Message: 4084

Just to recap...there will be a dedicated High Altitude Balloon Forum at the Dayton Hamvention on Friday May 16th at 1:15 pm....it will be 1 hour long.

I'd like to see a final show of hands of who can give about a 10 to 15 minute presentation about their group (Callsign, Group name) so I can send in the final program schedule to the Hamvention committee....looking for those who can do a slide/video PowerPoint style presentation at the forum about their group's activities.

So far I have UTARC, HALO Network (Jeff Dailey) and Arbonet confirmed.

We also may have some brief stand-up introductions from a few others about their group....Vienna Wireless Society for example.

Also there may be an actual balloon launch from the flea market after the forum by some members of the DARA group.

- Bill WB8ELK

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4085. Re: [GPSL] Dayton Hamvention High Altitude Balloon Forum

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-13 20:44:33 UTC
From: David Hoffman
Topic: 4084 Message: 4085

Save some time for yourself.

David Hoffman - KE4FGW

> Just to recap...there will be a dedicated High Altitude Balloon Forum at
> the
> Dayton Hamvention on Friday May 16th at 1:15 pm....it will be 1 hour
> long.
>
> I'd like to see a final show of hands of who can give about a 10 to 15
> minute presentation about their group (Callsign, Group name) so I can
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> We also may have some brief stand-up introductions from a few others about
> their group....Vienna Wireless Society for example.
>
> Also there may be an actual balloon launch from the flea market after the
> forum by some members of the DARA group.
>
> - Bill WB8ELK
>
>
>
>
>
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> Finance. (http://money.aol.com/tax?NCID=aolprf00030000000001)
>

4086. Re: [GPSL] Dayton Hamvention High Altitude Balloon Forum

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-14 04:02:01 UTC
From: dfranck@aol.com
Topic: 4084 Message: 4086

I am wondering if there might be interest in a High Atitude Balloon Forum for the Dakota Division Convention and Rochester Amateur Radio Expo this August? If there is interest, please contact me so I can work on a room etc. This mini Dayton event is shaping up to be a blast aqnd I do hope you consider coming!!

On a side note, I am hoping to set up a small Cansat demo on the grounds. But, there is no active group here in Rochester to help me. Does anyone have a used Cansat I could use aand/or display?

http://www.rarexpo.org/

Don Franck, AD0F

****
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4087. Re: [GPSL] Dayton Hamvention High Altitude Balloon Forum

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-14 13:11:33 UTC
From: PAUL VERHAGE
Topic: 4084 Message: 4087
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4088. Spirit of Knoxville IV balloon mission complete

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-14 16:49:27 UTC
From: gregwilliams@knology.net
Topic: 4088 Message: 4088

The Spirit of Knoxville has declared that the SNOX IV amateur radio high-altitude balloon flight is now complete after shattering two world records and landing just shy of the European Continent in its attempt to be the first amateur payload to successfully cross the Atlantic Ocean.

Launched at 10:40 PM Eastern Time on Monday, March 10 (0240Z on 3/11) from Downtown Island Home Airport in Knoxville, Tennessee, SNOX IV traveled over 3360 miles (5310 km) and logged 40+ hours of continuous flight before dropping into the Atlantic Ocean around 1700Z on Wednesday.

The flight ended just after sunset local time as the payload approached Europe. It's last reported position placed it about 350 miles (563 km) southwest off the coast of Ireland.

Although the payload landed just shy of the UK, the mission is far from being considered unsuccessful. Utilizing a 900 cubic foot "Zero-Pressure" balloon designed by Mark Caviezel, NG0X, and a liquid ballast system designed by Carl Lyster, WA4ADG, the balloon was able to take maximum advantage of the jet stream's 100+ mph (160 kph) winds during the first 24 hours aloft. These two designs combined to keep the payload aloft for such a long duration as the temperatures at times dipped to as low as -50F (-45C).

The preliminary data is still being reviewed, but based on the information sent in from listeners and participants around the world, SNOX IV has set new records in both flight duration and distance traveled for Amateur Radio High-Altitude Ballooning, or ARHAB.

Basedon the ARHAB records maintained by Ralph Wallio, W0RPK, SNOX IV shattered the 2-year old record of 1411.41 miles (2271.44km) set by Bill Brown, WB8ELK by more than double the distance. SNOX IV also bested the recent record of 32.26 hours set by Robert Rochte, KC8UCH on August 11, 2007 by about 8 hours.

Listeners from both sides of the pond and from around the world participated by tuning in to the CW beacon and RTTY telemetry on 30 meters. By downloading software provided by the Spirit of Knoxville team, known as the Distributed Tracking and Relay Client, or DTRC, hams and shortwave listeners were able to send their reports back to the SNOX team via the internet, which in turn updated the Spirit of Knoxville web site with real-time tracking of the balloon based on accumulated reports.

At several points in the first 24 hours, demand on the SNOX IV live status page was so high that the page had to be re-worked to a text-based version in order to support the demand.

Even though the balloon set records and nearly made it across, the Spirit of Knoxville team is not going to stop trying to complete the mission they set out to accomplish along with other ARHAB groups in North America. Planning is already underway to get SNOX V off the ground to finish what SNOX IV started.

Everyone is invited to attend a live press conference via the web and the SNOX team will field questions from participants. The chat conference is scheduled for 9AM Eastern Time (1300Z) on Saturday, March 22nd. Please visit http://www.spiritofknoxville.com for more

information.

Web Site: http://www.spiritofknoxville.com
Report Submission: http://www.utarc.org
Video of launch: http://www.viddler.com/spiritofknox/videos/5/
Video of DTRC and balloon's transmission (courtesy John, M0UKD):
http://www.m0ukd.com/video/SNOX_IV_M0UKD.wmv
Ralph Wallio's ARHAB record page: http://showcase.netins.net/web/wallio/ARHABrecords.htm
Spirit of Knoxville Media Package:
http://www.spiritofknoxville.com/SpiritofKnoxvilleMediaPacket.pdf
Email: contact@...

4089. Re: [GPSL] Spirit of Knoxville balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-14 18:36:06 UTC
From: Dan Bowen
Topic: 4078 Message: 4089

Thanks for your well wishes Mark! Stay tuned for SNOX V.
Thanks,
Dan
K2VOL

On Mar 11, 2008, at 10:01 AM, Mark Conner wrote:

> At 1301 UTC, the balloon was at 39,166 ft about 400 mi NNE of
> Bermuda. I did a quick trajectory calculation using a near-constant
> altitude and it shows the balloon passing over the French coast
> around 15/0200 UTC (Wed evening US time) and then ESE near Paris
> around 06 UTC, then western Switzerland, northern Italy, and the
> Adriatic.
>
> Good luck to the UTARC crew.
>
> 73 de Mark N9XTN
>
> <15918_trj001.gif>

4090. Re: [GPSL] Dayton Hamvention High Altitude Balloon Forum

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-14 20:24:01 UTC
From: dfranck@aol.com
Topic: 4084 Message: 4090

The dates are the 8ith - 10th of August. The website has signup and hotel information.

http://www.rarexpo.org/

Don Franck, AD0F

****
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(http://money.aol.com/tax?NCID=aolprf00030000000001)

4091. Re: [Balloon_Sked] SNOX live mission chat

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-14 23:26:36 UTC
From: Mike Manes
Topic: 4074 Message: 4091

Thanks, Dan

That certainly explains the 2nd night's final descent - what a bummer!
I will say that you guys really hit the ticket by tracking in the jet
stream! But as Ian Kluft observed, hanging a left in the jet stream
is indicative of a low pressure area which can anchor a front. So
perhaps some icing did occur on the first night, forcing a major dump
of ballast.

During the ReMax helium balloon race a few years ago, the pilot that
we were crewing for characterized ballast as the equivalent of fuel
for a powered aircraft: when ya run out, the flight's over.

In Navy Aeroplane Driving School, we were taught to climb above the
tropopause in event of enroute icing. That might be useful tactic for
your next attempt. Not that this one was a failure - you sure did
prove that a crossing is feasible and that you can get near total
tracking coverage. Kudos!

From my experience running traffic for Navy MARS, it seems that AMTOR
FEC would yield fewer data errors with a weak sig than Baudot. And from
a few trials, MT63 is even more robust, although it does require a linear
PA, since it's not a constant-amplitude waveform. PSK31 might also be
a worthy candidate - ANSR had pretty good luck with that mode, and using
the FEC mode might yield even better results. It might even be worth
considering a QSY to 80m over night when the MUF drops below 5 MHz.

I look forward to reading the mail on your next attempt, hopefully this
winter before the turnaround. GL on that one!

73 de Mike W5VSI, EOSS

Dan Bowen wrote:
> Hi Mike,
> We actually had 8000 seconds of ballast total on board (the 100% mark on
> the graphic dashboard). We have not finished the data analysis yet of
> the flight, but all of the ballast was used up after the first sunset -
> far more than had been expected. Cause of this is yet to be determined.
> As you may know, the sunset event is the ruthless killer of lift, and
> we escaped it by the skin of our teeth. Exhausting the ballast left us
> still in a very shallow descent, not according to plan! As the 30m
> radio blackout began in the late evening, we honestly thought we'd never
> hear it again. You'll see, in our altitude graphs, the amazing brush
> with the ocean it had - down to less than 10000 ft and falling at dawn.
> The sun, ever so slowly, started raising it from the imminent doom at
> that point to regain great speed in a very low-level jet stream,
> continuing on for hundreds more miles before sunset.

> For all our intricate planning, these long duration balloon flights
> remind me very much of the early sea voyages - mother nature is your
> finest friend and fiercest foe.
> Thanks,
> Dan
>
>
> On Mar 13, 2008, at 11:01 PM, Mike Manes wrote:
>
>> Hi Bill,
>>
>> I seem to recall that as well. But wasn't it Our Hero, Joe Kittenger,
>> that made the first solo trans-Atlantic crossing? I think that was
>> S. America to Africa, tho.
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>> Kinda curious re why SNOX ended prematurely - seems they had plenty of
>> ballast left.
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>> 73 de Mike W5VSI
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>> WB8ELK@... <mailto:WB8ELK%40aol.com> wrote:
>> > Hi Mike,
>> >
>> > So close but yet so far away.....some big records that will be tough
>> > to break....I recall a manned balloon trans-Atlantic attempt by Branson
>> > that landed just a quarter mile from landfall of Ireland that didn't
>> > count since they basically crashed it into the sea....they had a stiff
>> > offshore wind that prevented them from making it that tantalizing close
>> > 1/4 miles.
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>> > - Bill WB8ELK
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>> >
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>> >
>> > ---
>> >
>> > Subject:
>> > Re: [Balloon_Sked] SNOX live mission chat
>> > From:
>> > Mike Manes <mrmanes@... <mailto:mrmanes%40gmail.com>>
>> > Date:
>> > Wed, 12 Mar 2008 20:49:16 -0700
>> > To:
>> > Dan Bowen <dbowen1@... <mailto:dbowen1%40mac.com>>
>> >

>> > To:
>> > Dan Bowen <dbowen1@... <mailto:dbowen1%40mac.com>>
>> > CC:
>> > GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Balloon Sked
>> <balloon_sked@yahoogroups.com <mailto:balloon_sked%40yahoogroups.com>>
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>> >> interested people to converse about the flight in progress with us and
>> >> eachother.
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>> >> You can get to the chat from the DTRC Status Page at:
>> >> http://dtrc.utarc.org/status.php <http://dtrc.utarc.org/status.php>
>> >>
>> >> If you use IRC, you can get there by connecting to
>> >> oasis.liveharmony.org channel #SNOX
>> >>
>> >> Thanks,
>> >> Dan-K2VOL
>> >> Spirit of Knoville
>> >> UTARC
>> >>
>> >>
>> >>
>> >>
>> >> Yahoo! Groups Links
>> >>
>> >>
>> >>
>> >>
>> >>
>> >
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
>> 303-979-4899
>> "Things should be made as simple as possible, but not more so."
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4092. Re: [Balloon_Sked] SNOX live mission chat

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-15 00:29:09 UTC
From: Mike Manes
Topic: 4074 Message: 4092

Hi again, Dan

You can log another first: The ARRL Letter of 13 Mar 08 recorded, for the first time that I can recall, an ARHAB flight:
---clip---
* "Spirit of Knoxville" Sees Successful Launch: The trans-Atlantic balloon flight of the "Spirit of Knoxville IV" <http://www.spiritofknoxville.com/> launched into orbit on March 11 at 0200 UTC (10 PM EDT March 10). The balloon, designed to stay aloft for more than 24 hours, was successfully inserted into the current jet stream at normal flight altitudes of 30,000-40,000 feet. On Wednesday, March 12, it had made two-thirds of its journey and crossed the tectonic plate to Europe. Organizers hoped the balloon would make to Europe, but after 40 hours and 3300 miles, the balloon lost altitude late Wednesday and went into the ocean as it neared Ireland. Using radio frequencies, the balloon transmitted data detailing its current location, distance traveled, speed, height and health of the balloon. The balloon's payload consisted of hand-made computers and radios, along with a GPS and self-authored software. The onboard computer gathered such information from the GPS as altitude, speed and temperature; the computer then determined whether the balloon needed to drop weight to maintain its altitude and sent this information, via Amateur Radio frequencies, to volunteers around the globe.
---clip---
73 de Mike W5VSI

Dan Bowen wrote:
> Hi Mike,
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> the graphic dashboard). We have not finished the data analysis yet of
> the flight, but all of the ballast was used up after the first sunset -
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>> > that landed just a quarter mile from landfall of Ireland that didn't
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>> > ---
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>> > From:
>> > Mike Manes <mrmanes@... <mailto:mrmanes%40gmail.com>>
>> > Date:
>> > Wed, 12 Mar 2008 20:49:16 -0700
>> > To:
>> > Dan Bowen <dbowen1@... <mailto:dbowen1%40mac.com>>
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>> > To:
>> > Dan Bowen <dbowen1@... <mailto:dbowen1%40mac.com>>
>> > CC:
>> > GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Balloon Sked

>> <balloon_sked@yahoogroups.com <mailto:balloon_sked%40yahoogroups.com>>
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>> > new DX record for a flight, but it must be frustrating to have
>> > missed landfall in EI-land by just 250 or so miles. Don't give up!
>> >
>> > 73 de Mike W5VSI, EOSS
>> >
>> > Dan Bowen wrote:
>> >> Hi all,
>> >> We're trying out a chatroom on this flight for DTRC users and
>> >> interested people to converse about the flight in progress with us and
>> >> eachother.
>> >>
>> >> You can get to the chat from the DTRC Status Page at:
>> >> http://dtrc.utarc.org/status.php <http://dtrc.utarc.org/status.php>
>> >>
>> >> If you use IRC, you can get there by connecting to
>> >> oasis.liveharmony.org channel #SNOX
>> >>
>> >> Thanks,
>> >> Dan-K2VOL
>> >> Spirit of Knoville
>> >> UTARC
>> >>
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>> >>
>> >>
>> >> Yahoo! Groups Links
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>> >> --
>> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
>> 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
>>
>
>
> Thanks,
> Dan
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4093. SNOX article for This Week in Amateur Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-15 06:42:54 UTC
From: Greg Williams
Topic: 4093 Message: 4093

http://twiar.org/audio/SNOXIV-TWIAR779.mp3

Very good audio.

I "interview" Dan and Mike for the audio clips but fortunately I'm not on the interview itself.

The entire show will be made available tomorrow or Sunday at twiar.org.

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4094. Video, news audio of S-NOX IV

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-17 01:14:57 UTC
From: Greg Williams
Topic: 4094 Message: 4094

http://www.youtube.com/watch?v=S4j12WlMMV0 - Video of the inflation and launch of S-NOX IV.

Set to a music background soundtrack. I'll upload one later with no music.

Also

http://twiar.org/audio/SNOXIV-TWIAR779.mp3

Very good audio.

I "interview" Dan and Mike for the audio clips but fortunately I'm not on the interview itself.

The entire news report is available at http://www.twiar.org (Repeater version)

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4095. To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 02:48:53 UTC
From: Joe
Topic: 4095 Message: 4095

Good Morning Ladies and Gentlemen,

Our group has a question if we may.

You have all heard the question about a helium filled balloon attached to a string (positively buoyant) while inside a stopped and completely enclosed car. When the car accelerates in the forward direction, the balloon moves forward as a function mass and density. We also know that a balloon with negative buoyancy will move backward in the same situation. Our question is this:

In which direction will a neutrally buoyant balloon move when the car accelerates?

Hmmmmm?

Joe @ NSS

4096. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 04:07:34 UTC
From: Mike Manes
Topic: 4095 Message: 4096

Hi Joe,

Simple Newtonian mechanics applies: since the balloon has positive mass,
even though it's the same as the mass of the air it displaces, it will
move towards the rear of the car, as will the mass of air in the car.

Now, it's a close call as to whether a balloon with positive lift will
move forward, driven by the pressure gradient due to air packing to
the rear, or whether inertia will prevail. I suspect the latter. And
it all depends on whether the car's air vents are open or not.

So better take a deep breath before putting the pedal to the metal :=}.

73 de Mike W5VSI

Joe wrote:
> Good Morning Ladies and Gentlemen,
>
> Our group has a question if we may.
>
> You have all heard the question about a helium filled balloon attached
> to a string (positively buoyant) while inside a stopped and completely
> enclosed car. When the car accelerates in the forward direction, the
> balloon moves forward as a function mass and density. We also know that
> a balloon with negative buoyancy will move backward in the same
> situation. Our question is this:
>
> In which direction will a neutrally buoyant balloon move when the car
> accelerates?
>
> Hmmmmm?
>
> Joe @ NSS
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

4097. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 03:09:41 UTC
From: Hank Riley
Topic: 4095 Message: 4097

> You have all heard the question about a helium filled balloon
> attached to a string (positively buoyant) while inside a stopped
> and completely enclosed car.

First time I've ever heard anything like it.

> When the car accelerates in the forward direction,
> the balloon moves forward as a function mass and density.

Forward with respect to what? The ground? The car?

> We also know that a balloon with negative buoyancy will move
> backward in the same situation.

Really? How do you know that? Same questions also as above:
backward with respect to what reference frame?

This as it stands is a very ambiguously defined
situation on many levels. I can't imagine beginning to
discuss it intelligently without better specification of
the initial conditions for each of the the three balloon
types.

Are these neutral and negatively buoyant balloons in contact
with some interior surface of the car?

Hank

Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

4098. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 03:28:57 UTC
From: Hank Riley
Topic: 4095 Message: 4098

Taking another stab at this, assuminng all three balloons
are in midair when this acceleration begins, it shouldn't
matter what their buoyancies are.

These mass and acceleration illustrations usually try to
minimize the secondary effects of things like air resistance,
so this scenario is kind of strange in that those effects, and
others such as the motion of the trapped air in the car that
Mike alluded to, could come into play.

There doesn't seem to be any kind of insight into any basic
principle exemplified and demonstrated here that I'm seeing
that wouldn't be more clearly evident with non balloon bodies
where air resistance would be dwarfed by mass.

Hank

_____
Looking for last minute shopping deals?
Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping

4099. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 03:37:44 UTC
From: Joe
Topic: 4095 Message: 4099

Ok More details,

The ballon is Positive boyuant, and tied to a string which is tied to
something say on the floor of the car so that the floating balloon is
centered in the cabin of the car.

Keep reading below for more..

Hank Riley wrote:

>>You have all heard the question about a helium filled balloon
>>attached to a string (positively buoyant) while inside a stopped
>>and completely enclosed car.
>>
>>
>
>First time I've ever heard anything like it.
>
>
>
>>When the car accelerates in the forward direction,
>>the balloon moves forward as a function mass and density.
>>
>>
>
>Forward with respect to what? The ground? The car?
>
>
relative to the inside of the car.

>
>
>>We also know that a balloon with negative buoyancy will move
>>backward in the same situation.
>>
>>
>
>Really? How do you know that? Same questions also as above:
>
>
Ok a balloon that is filled with air that is hanging from a string from
the cieling of the car so it is again centralized in the cabin of the car.

>backward with respect to what reference frame?
>
>

The inside of the car again.

>This as it stands is a very ambiguously defined
>situation on many levels. I can't imagine beginning to
>discuss it intelligently without better specification of
>the initial conditions for each of the the three balloon
>types.
>
>Are these neutral and negatively buoyant balloons in contact
>with some interior surface of the car?
>
>

Just the string for the negatige and positive, to be able to keep them
in place, the neutral is just floating on it's own in the center.

Joe

>Hank
>
>
>
> _____
>Looking for last minute shopping deals?
>Find them fast with Yahoo! Search.
http://tools.search.yahoo.com/newsearch/category.php?category=shopping
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>Yahoo! Groups Links
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4100. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 12:58:18 UTC
From: PAUL VERHAGE
Topic: 4095 Message: 4100

The balloon tips forward. I've observed this many times. Air slams into the back of the car when you accelerate. As a result, air density is lower in the front of the car where the balloon tries to float.

Paul

>>> Joe <nss@...> 3/18/2008 8:48 PM >>>
Good Morning Ladies and Gentlemen,

Our group has a question if we may.

You have all heard the question about a helium filled balloon attached to a string (positively buoyant) while inside a stopped and completely enclosed car. When the car accelerates in the forward direction, the balloon moves forward as a function mass and density. We also know that a balloon with negative buoyancy will move backward in the same situation. Our question is this:

In which direction will a neutrally buoyant balloon move when the car accelerates?

Hmmmmm?

Joe @ NSS

Yahoo! Groups Links

4101. Re: To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 13:31:54 UTC
From: D
Topic: 4095 Message: 4101

--- In GPSL@yahoogroups.com, "PAUL VERHAGE" <paul.verhage@...> wrote:
>
> The balloon tips forward. I've observed this many times. Air slams into the back of the car when you accelerate. As a result, air density is lower in the front of the car where the balloon tries to float.
>
> Paul

I've done it before, too, and have observed the same effects.

Dave

4102. GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 17:01:52 UTC
From: Keith Kaiser
Topic: 3457 Message: 4102

Aeronauts,

Today and for a couple of weeks I'll be polling you to help plan GPSL 2008 in hopes of making it a great experience. On the web page superlaunch.org is a section for polls, I would ask that each of you take just a minute or two and answer the poll(s), and check the results if you wish.
There may only be one today, but more will almost certainly be coming.

Thanks....
Kansas City or Burst!

4103. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 18:33:37 UTC
From: Mike Manes
Topic: 4095 Message: 4103

Hi Hank,

I generally agree with your opinion on this topic.

But there may be some merit if one considers a theoretical (and
extreme) condition where the inertia of the enclosed air mass
forces it to evacuate from the front of the car and pack to the
rear, thus creating a horizontal density gradient not unlike the
vertical gradient produced by Earth's gravity. This condition
would not affect a neutrally-bouyant balloon, just as it's unaffected
by the normal vertical gradient. But if one assumes a positively
bouyant, and >nearly massless<, balloon, then yeah, it could move
towards the lower-density air at the front of the car - in theory.

Weird science, eh?

73 de Mike W5VSI

Hank Riley wrote:
> Taking another stab at this, assuminng all three balloons
> are in midair when this acceleration begins, it shouldn't
> matter what their buoyancies are.
>
> These mass and acceleration illustrations usually try to
> minimize the secondary effects of things like air resistance,
> so this scenario is kind of strange in that those effects, and
> others such as the motion of the trapped air in the car that
> Mike alluded to, could come into play.
>
> There doesn't seem to be any kind of insight into any basic
> principle exemplified and demonstrated here that I'm seeing
> that wouldn't be more clearly evident with non balloon bodies
> where air resistance would be dwarfed by mass.
>
> Hank
>
>
> ---
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http://tools.search.yahoo.com/newsearch/category.php?category=shopping
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4104. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 18:47:32 UTC
From: Mike Manes
Topic: 4095 Message: 4104

Thanks, Paul, for the empirical observation of a theoretical mechanism.
Some cars (not mine) can make 1G+ acceleration producing a 45 degree
angle of density gradient.

And I don't have a car big enough to fly a filled balloon, either.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> The balloon tips forward. I've observed this many times. Air slams
> into the back of the car when you accelerate. As a result, air density
> is lower in the front of the car where the balloon tries to float.
>
> Paul
>
> >>> Joe <nss@...> 3/18/2008 8:48 PM >>>
> Good Morning Ladies and Gentlemen,
>
> Our group has a question if we may.
>
> You have all heard the question about a helium filled balloon attached
> to a string (positively buoyant) while inside a stopped and completely
> enclosed car. When the car accelerates in the forward direction, the
> balloon moves forward as a function mass and density. We also know that
> a balloon with negative buoyancy will move backward in the same
> situation. Our question is this:
>
> In which direction will a neutrally buoyant balloon move when the car
> accelerates?
>
> Hmmmmm?
>
> Joe @ NSS
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

4105. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 18:16:21 UTC
From: Joe
Topic: 4095 Message: 4105

Greetings everyone,
Paul has it right for the most part, or at least the parts of positive and negative, a fun video that actually shows this happening can be watched at,

http://youtube.com/watch?v=P5KuRZcq2mU

I dropped this guy a e mail asking about the neutral question, but no answer as of yet.

I'm thinking, if its neutral, is volume /density matched it's volume/ density / displacement.

I'm thinking it would move backwards upon acceleration, due to the density shift, But then I began to think,,, is there enough power to actually make it move this way

OR,, how about this,

neutral buoyancy,,

acceleration,,

air density in cabin changes,

balloon couldn't move fast enough to stay in same density field, so now resides in less dense air so it sinks., o stopping the reverse happens, the balloon rises.

hmmmmm?

Joe & NSS

Mike Manes wrote:

>Thanks, Paul, for the empirical observation of a theoretical mechanism.
>Some cars (not mine) can make 1G+ acceleration producing a 45 degree
>angle of density gradient.
>
>And I don't have a car big enough to fly a filled balloon, either.
>
>73 de Mike W5VSI
>
>PAUL VERHAGE wrote:
>
>
>>The balloon tips forward. I've observed this many times. Air slams
>>into the back of the car when you accelerate. As a result, air density

>>is lower in the front of the car where the balloon tries to float.
>>
>>Paul
>>
>> >>> Joe <nss@...> 3/18/2008 8:48 PM >>>
>>Good Morning Ladies and Gentlemen,
>>
>>Our group has a question if we may.
>>
>>You have all heard the question about a helium filled balloon attached
>>to a string (positively buoyant) while inside a stopped and completely
>>enclosed car. When the car accelerates in the forward direction, the
>>balloon moves forward as a function mass and density. We also know that
>>a balloon with negative buoyancy will move backward in the same
>>situation. Our question is this:
>>
>>In which direction will a neutrally buoyant balloon move when the car
>>accelerates?
>>
>>Hmmmmm?
>>
>>Joe @ NSS
>>
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>>Yahoo! Groups Links
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4106. Re: [GPSL] To Ponder.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-19 21:17:46 UTC
From: Mike Manes
Topic: 4095 Message: 4106

Amazing!

Joe wrote:
> Greetings everyone,
> Paul has it right for the most part, or at least the parts of positive
> and negative, a fun video that actually shows this happening can be
> watched at,
>
> http://youtube.com/watch?v=P5KuRZcq2mU
>
> I dropped this guy a e mail asking about the neutral question, but no
> answer as of yet.
>
> I'm thinking, if its neutral, is volume /density matched it's volume/
> density / displacement.
>
> I'm thinking it would move backwards upon acceleration, due to the
> density shift, But then I began to think,,, is there enough power to
> actually make it move this way
>
> OR,, how about this,
>
> neutral buoyancy,,
>
> acceleration,,
>
> air density in cabin changes,
>
> balloon couldn't move fast enough to stay in same density field, so now
> resides in less dense air so it sinks., o stopping the reverse
> happens, the balloon rises.
>
> hmmmmm?
>
> Joe & NSS
>
> Mike Manes wrote:
>> Thanks, Paul, for the empirical observation of a theoretical mechanism.
>> Some cars (not mine) can make 1G+ acceleration producing a 45 degree
>> angle of density gradient.
>>
>> And I don't have a car big enough to fly a filled balloon, either.
>>
>> 73 de Mike W5VSI
>>

>> PAUL VERHAGE wrote:
>>
>>> The balloon tips forward. I've observed this many times. Air slams
>>> into the back of the car when you accelerate. As a result, air density
>>> is lower in the front of the car where the balloon tries to float.
>>>
>>> Paul
>>>
>>> >>> Joe <nss@...> 3/18/2008 8:48 PM >>>
>>> Good Morning Ladies and Gentlemen,
>>>
>>> Our group has a question if we may.
>>>
>>> You have all heard the question about a helium filled balloon attached
>>> to a string (positively buoyant) while inside a stopped and completely
>>> enclosed car. When the car accelerates in the forward direction, the
>>> balloon moves forward as a function mass and density. We also know that
>>> a balloon with negative buoyancy will move backward in the same
>>> situation. Our question is this:
>>>
>>> In which direction will a neutrally buoyant balloon move when the car
>>> accelerates?
>>>
>>> Hmmmmm?
>>>
>>> Joe @ NSS
>>>
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>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4107. GPSL 2008 T-shirts are now available.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-21 03:58:11 UTC
From: kd0cfe
Topic: 4107 Message: 4107

We have light and dark shirts available now at Zazzle. On the front
you can customize the shirt by adding you name under the ARHAB logo.
We have this year's logo and slogan on the back.

Near Space Ventures have chosen to wear light blue as our team color.
We'd like to invite the other teams and individuals to choose any
other color.

Zazzle accepts payment by Visa, Mastercard, and American Express.

Please visit zazzle.com/kd0cfe* to view and purchase your GPSL 2008 shirt!

4108. Re: [GPSL] GPSL 2008 T-shirts are now available.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 00:31:13 UTC
From: Mark Conner
Topic: 4107 Message: 4108
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4109. Re: [GPSL] GPSL 2008 T-shirts are now available.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 02:18:35 UTC
From: David Hoffman
Topic: 4107 Message: 4109

I've suggested the orange t-shirts to the UTARC group from Tennessee.
We'll see.

David Hoffman - KE4FGW

> We have light and dark shirts available now at Zazzle. On the front
> you can customize the shirt by adding you name under the ARHAB logo.
> We have this year's logo and slogan on the back.
>
> Near Space Ventures have chosen to wear light blue as our team color.
> We'd like to invite the other teams and individuals to choose any
> other color.
>
> Zazzle accepts payment by Visa, Mastercard, and American Express.
>
> Please visit zazzle.com/kd0cfe* to view and purchase your GPSL 2008 shirt!
>
>

4110. ARHAB Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 05:20:21 UTC
From: PAUL VERHAGE
Topic: 4110 Message: 4110

I've started a wiki entry for ARHAB. Please look it over and make improvements to the topic.

http://en.wikipedia.org/wiki/ARHAB

Thanks,
Paul

4111. Re: [GPSL] ARHAB Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 05:28:37 UTC
From: Keith Kaiser
Topic: 4110 Message: 4111

Sorry it took me so long.... it's now a link off the superlaunch.org
web site.

Have a great Saturday and Easter.

On Mar 22, 2008, at 12:20 AM, PAUL VERHAGE wrote:

> I've started a wiki entry for ARHAB. Please look it over and make
> improvements to the topic.
>
> http://en.wikipedia.org/wiki/ARHAB
>
> Thanks,
> Paul
>
>

4112. Re: [GPSL] ARHAB Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 05:57:15 UTC
From: Wayne Helms
Topic: 4110 Message: 4112
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4113. Was ARHAB Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 13:07:29 UTC
From: PAUL VERHAGE
Topic: 4113 Message: 4113

I hoping for a great Saturday!

My FIRST Robotics Team is third place overall at the Sacramento Regionsal. We have three more games today and I expect we'll finsih high enough that we'll compete in the finals. If we win those, and we do have a chance, we're off to the Nationals in Atlanta.

Go Team Tator!!

>>> Keith Kaiser <keith.kaiser@...> 03/21/08 11:28 PM >>>
Sorry it took me so long.... it's now a link off the superlaunch.org
web site.

Have a great Saturday and Easter.

On Mar 22, 2008, at 12:20 AM, PAUL VERHAGE wrote:

> I've started a wiki entry for ARHAB. Please look it over and make
> improvements to the topic.
>
> http://en.wikipedia.org/wiki/ARHAB
>
> Thanks,
> Paul
>
>

4114. Re: [GPSL] ARHAB Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-22 22:19:40 UTC
From: Mike Manes
Topic: 4110 Message: 4114

Hi Paul,

Thanks for starting that Wikipedia entry. Note that similar material
also appears there under "scientific ballooning", IIRC.

Some ARHAB payloads aren't digital, e.g. ATV, DF beacons, voice repeaters.
And not all use styrofoam boxes for enclosures. E.g., foamcore for
most of EOSS's and simple bubble wrap for WB8ELK's recent beacons. Some
even use fiberglass rocket tubes.

And although the US ARHAB group has acknowledged Bill Brown's pioneering
work and continuing advancements of the art, in fairness, I think
the Finnish group deserves at least honorable mention for their
flights dating back to the 60's.

It may be worthwhile to note that ARHAB has been used advantageously
by schools and scientific organizations as low-cost alternative to
sounding rockets and orbital flight, with the further advantage of
recovery of payloads and experiments (largely) intact.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I've started a wiki entry for ARHAB. Please look it over and make improvements to the
topic.
>
> http://en.wikipedia.org/wiki/ARHAB
>
> Thanks,
> Paul
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4115. FIRST Robotics

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-23 05:35:28 UTC
From: PAUL VERHAGE
Topic: 4115 Message: 4115

Wow, my team, #2122, just won the Sacramento Regionals. We're now going to Atlanta for the nationals.

Paul

4116. Re: [GPSL] FIRST Robotics

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-23 13:54:22 UTC
From: Keith Kaiser
Topic: 4115 Message: 4116

Congratulations Paul!
Give us the details, when are the regionals? I'll be spending about 16 weeks there maybe I'll get a chance to see them.

On Mar 23, 2008, at 12:35 AM, PAUL VERHAGE wrote:

> Wow, my team, #2122, just won the Sacramento Regionals. We're now
> going to Atlanta for the nationals.
>
> Paul
>
>

4117. Re: [GPSL] FIRST Robotics

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-24 01:26:00 UTC
From: Mike Manes
Topic: 4115 Message: 4117

Congratulations to you and your team, Paul!
Is there a web site where we can track your progress / learn more?
73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> Wow, my team, #2122, just won the Sacramento Regionals. We're now going to Atlanta for the nationals.
>
> Paul
>
> ---
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4118. Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-25 05:40:00 UTC
From: Dan Bowen
Topic: 4118 Message: 4118

Hi All,
I just came across a nice tutorial for a cryogenic test chamber. These have been invaluable in our long duration flight testing, and I wish we had thought to make one a long time ago, even for short flight electronics testing. You can sometimes rely on latent heat for latex flights, but longer than a few hours and you either have to survive cold or turn on the heater. We have made a chamber with a large styrofoam cooler (2" walls) using a DS1820 temp sensor to thermostatically control a 5" PC fan. The cooler we had was actually a dry-ice medical shipping container, obtained (for free) by request from a local pharmacy. Using 15lbs of dry ice allows -50C for over 48 hours undisturbed. At most grocery stores that carry it, dry ice goes for $1.00/lb. I think electronics testing firms recommend no more than 4 degrees C per minute (down or up) to ensure even contraction or expansion of all electrical components.

http://www.sas.org/tcs/weeklyIssues_2008/2008-02-01/project2/index.html

73,
Dan
K2VOL

4119. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-25 12:07:19 UTC
From: PAUL VERHAGE
Topic: 4118 Message: 4119

The tutorial is for a column on BalloonSats I'm writing for the Society of Amateur Scientists. The column is my book on BalloonSats.

Eventually, I want to set up something for SAS members to get their experiments flights with near space groups.

Paul

>>> Dan Bowen <dbowen1@...> 03/24/08 11:40 PM >>>
Hi All,
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expansion of all electrical components.

http://www.sas.org/tcs/weeklyIssues_2008/2008-02-01/project2/index.html

73,
Dan
K2VOL

Yahoo! Groups Links

4120. Re: [Balloon_Sked] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-25 23:36:28 UTC
From: Mike Manes
Topic: 4118 Message: 4120

Hi Dan,

Dry ice sublimates at about -100C, and we've been able to get -80C
in our homebrew 2" thick building foam chamber. The chamber has
two "floors": the "basement" is for the payloads and the upper one
is for the dry ice. A 4" muffin fan mounted between the floors at one
end and an exhaust vent at the other gets the job done. Since we've
not planned any long-duration flights, it's been a long time since
we've used the "coffin". A common food freezer cold soaks the DUT
to -18C (0F), which is lower than any internal temp that we've
measured.

73 de Mike W5VSI, EOSS

Dan Bowen wrote:
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> wish we had thought to make one a long time ago, even for short flight
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> 73,
> Dan
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4121. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-27 16:12:26 UTC
From: John C Nordlie
Topic: 4118 Message: 4121

Hi Paul,

Neat design! Have you ever integrated a vacuum chamber with this
to also simulate altitude? We've used both freezers and a homebrew
vacuum chamber to test stuff in the past, but never both at once. Has
anyone built something that can do a frigid, sparse atmosphere?

On Tue, 25 Mar 2008, PAUL VERHAGE wrote:

> The tutorial is for a column on BalloonSats I'm writing for the Society of Amateur
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4122. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-27 23:30:33 UTC
From: PAUL VERHAGE
Topic: 4118 Message: 4122

I'd love to do something like this. I would want to find an affordable way to do this. The vacuum side and crush resistant container will be expensive.

Paul

>>> John C Nordlie <nordlie@...> 03/27/08 10:12 AM >>>
Hi Paul,

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Yahoo! Groups Links

4123. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 02:35:50 UTC
From: Mike Manes
Topic: 4118 Message: 4123

Hi John,

Of course, it would be possible to put dry ice in a vacuum chamber, but the sublimation temperature would drop considerably. From my Dad's 1937 Ed of Hdbk Chem Phys, the saturated vapor temp of solid CO2 at 10 mbar (100K') is about -120C, compared to -80C at 1 atm. But since the dry ice isn't that cold by the time you get it, the vacuum would most likely cause the vaporization rate to accelerate.

Since C02 combines with water vapor to form carbonic acid, one may risk corrosion damage to the vacuum pump. If the dry ice were enclosed in a pressure vessel at room ambient with good thermal conduction, that problem could be averted.

Such a system would allow one to evaluate the effectiveness of heat sinks, however, which lose effectiveness as convectors at 10 mbar and thus must rely on radiative heat transfer to the environment. Fortunately, radiative transfer varies as the 4th power of temperature difference.

73 de Mike W5VSI, EOSS

John C Nordlie wrote:
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
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4124. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 01:58:38 UTC
From: PAUL VERHAGE
Topic: 4118 Message: 4124

So we need to build a Styrofoam box under the metal bottom of a vacuum chamber. Without a functioning fan to ciculate cold air, we're relying on thermal conduction to chill the payload.

It seems to me that vacuum systems are expensive. I wonder if something could be rigged up in a metal enclosure. We really don't need to see inside the chamber. Or if we have to, we could use a small, cheap digital camcorder and light.

Paul

>>> Mike Manes <mrmanes@...> 03/27/08 8:35 PM >>>
Hi John,

Of course, it would be possible to put dry ice in a vacuum chamber,
but the sublimation temperature would drop considerably. From my Dad's
1937 Ed of Hdbk Chem Phys, the saturated vapor temp of solid CO2 at 10
mbar (100K') is about -120C, compared to -80C at 1 atm. But since the
dry ice isn't that cold by the time you get it, the vacuum would most
likely cause the vaporization rate to accelerate.

Since C02 combines with water vapor to form carbonic acid, one may risk
corrosion damage to the vacuum pump. If the dry ice were enclosed in
a pressure vessel at room ambient with good thermal conduction, that
problem could be averted.

Such a system would allow one to evaluate the effectiveness of heat
sinks, however, which lose effectiveness as convectors at 10 mbar and
thus must rely on radiative heat transfer to the environment. Fortunately,
radiative transfer varies as the 4th power of temperature difference.

73 de Mike W5VSI, EOSS

John C Nordlie wrote:
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> Neat design! Have you ever integrated a vacuum chamber with this
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Yahoo! Groups Links

4125. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 03:04:53 UTC
From: Mike Manes
Topic: 4118 Message: 4125

A large Pyrex mixing bowl has been used as a bell jar. The base plate
was a sheet of 1/2" Al with wide foam weather strip on the rim of
the bowl serving as a vacuum seal. The base plate is fitted with a
threaded fitting for the vacuum pump and an other test ports. The
EOSS vacuum chamber is a 10"x16"x16" box made from 5/8" plexiglas sheet
epoxied at the seams. It does flex noticeably, however.

73 de Mike W5VSI, EOSS

PAUL VERHAGE wrote:
> I'd love to do something like this. I would want to find an affordable way to do this.
The vacuum side and crush resistant container will be expensive.
>
> Paul
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>>>> John C Nordlie <nordlie@...> 03/27/08 10:12 AM >>>
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4126. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 03:17:08 UTC
From: Mike Manes
Topic: 4118 Message: 4126
Attachments: 1 described; binary payloads are missing from this source WARC

EOSS's chamber was a donation from a company that used it for testing
smoke detectors, and we got got a 1/2 HP Welch vane pump from an
Ebay seller for $75 - cheap because of a badly frayed power cord and
some contamination in the oil. It does pull down to 0.8 Torr (>150K'),
however, on a good day. I've attached a lousy pix.

An interesting resource: http://www.belljar.net/index.htm

73 de Mike W5VSI

PAUL VERHAGE wrote:
> So we need to build a Styrofoam box under the metal bottom of a vacuum chamber. Without a functioning fan to ciculate cold air, we're relying on thermal conduction to chill the payload.
>
> It seems to me that vacuum systems are expensive. I wonder if something could be rigged up in a metal enclosure. We really don't need to see inside the chamber. Or if we have to, we could use a small, cheap digital camcorder and light.
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>>>> Mike Manes <mrmanes@...> 03/27/08 8:35 PM >>>
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> likely cause the vaporization rate to accelerate.
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> Since C02 combines with water vapor to form carbonic acid, one may risk
> corrosion damage to the vacuum pump. If the dry ice were enclosed in
> a pressure vessel at room ambient with good thermal conduction, that
> problem could be averted.
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> Such a system would allow one to evaluate the effectiveness of heat
> sinks, however, which lose effectiveness as convectors at 10 mbar and
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4127. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 03:04:11 UTC
From: Pete Lilja
Topic: 4118 Message: 4127

You can but a Venturi type vacuum pump for $10 from Harbor Freight (item number 92475):
http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=92475

These work with compressed air flow. I'm not sure if they'll meet your needs but are inexpensive. I've read of wood workers stabilizing wood with vacuum systems and high power rocket motor makers use vacuum systems to de-gas propellant mixtures. Mixing bowls with Lexan (and even plywood) covers seal well enough to hold the vacuum.

Not sure if this helps but thought I'd throw it out there. Google searches would probably find some ideas for a chamber of some type.

Pete

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Thursday, March 27, 2008 8:58 PM
Subject: Re: [GPSL] Cryogenic Test Chamber article

So we need to build a Styrofoam box under the metal bottom of a vacuum chamber. Without a functioning fan to ciculate cold air, we're relying on thermal conduction to chill the payload.

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

4128. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 03:22:36 UTC
From: PAUL VERHAGE
Topic: 4118 Message: 4128

Umm, a pyrex mixing bowl and $10 vacuum pump. I think I see an article here.

Paul

PS, I suppose the system wouldn't have to simulate 85,000 feet exactly. But if it's cheap and reasonably effective.....

>>> "Pete Lilja" <plilja@...> 03/27/08 9:04 PM >>>
You can but a Venturi type vacuum pump for $10 from Harbor Freight (item number 92475):
http://www.harborfreight.com/cpi/ctaf/displayitem.taf?Itemnumber=92475

These work with compressed air flow. I'm not sure if they'll meet your needs but are inexpensive. I've read of wood workers stabilizing wood with vacuum systems and high power rocket motor makers use vacuum systems to de-gas propellant mixtures. Mixing bowls with Lexan (and even plywood) covers seal well enough to hold the vacuum.

Not sure if this helps but thought I'd throw it out there. Google searches would probably find some ideas for a chamber of some type.

Pete

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Thursday, March 27, 2008 8:58 PM
Subject: Re: [GPSL] Cryogenic Test Chamber article

So we need to build a Styrofoam box under the metal bottom of a vacuum chamber. Without a functioning fan to ciculate cold air, we're relying on thermal conduction to chill the payload.

It seems to me that vacuum systems are expensive. I wonder if something could be rigged up in a metal enclosure. We really don't need to see inside the chamber. Or if we have to, we could use a small, cheap digital camcorder and light.

Paul

>>> Mike Manes <mrmanes@...> 03/27/08 8:35 PM >>>
Hi John,

Of course, it would be possible to put dry ice in a vacuum chamber,
but the sublimation temperature would drop considerably. From my Dad's
1937 Ed of Hdbk Chem Phys, the saturated vapor temp of solid CO2 at 10
mbar (100K') is about -120C, compared to -80C at 1 atm. But since the
dry ice isn't that cold by the time you get it, the vacuum would most
likely cause the vaporization rate to accelerate.

Since C02 combines with water vapor to form carbonic acid, one may risk
corrosion damage to the vacuum pump. If the dry ice were enclosed in
a pressure vessel at room ambient with good thermal conduction, that
problem could be averted.

Such a system would allow one to evaluate the effectiveness of heat
sinks, however, which lose effectiveness as convectors at 10 mbar and
thus must rely on radiative heat transfer to the environment. Fortunately,
radiative transfer varies as the 4th power of temperature difference.

73 de Mike W5VSI, EOSS

John C Nordlie wrote:
> Hi Paul,
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> Neat design! Have you ever integrated a vacuum chamber with this
> to also simulate altitude? We've used both freezers and a homebrew
> vacuum chamber to test stuff in the past, but never both at once. Has
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4129. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 03:28:44 UTC
From: John C Nordlie
Topic: 4118 Message: 4129

Here's a chamber I built last year:

http://blizzard.rwic.und.edu/~nordlie/vacuum_chamber/

It's made from 8" PVC pipe, some 1/2" thick lexan squares,
gaskets cut from rubber sheet, and pumped down by two dry
vane compressors hooked in series.

The pumps will only pull around 25" of mercury (sorry for
the obsure units, that's the only gauge I had), which if I
recall correctly is only about 50k feet worth of altitude
(someone correct me if I'm wrong).

My concern with trying to cool this is that the plastic might
get brittle at such cold temps. I suppose a steel tank from
an air compressor would make a decent chamber, if one end were
cut off and a flange welded on.

On Thu, 27 Mar 2008, Mike Manes wrote:

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The vacuum side and crush resistant container will be expensive.
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4131. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 04:38:15 UTC
From: Mike Manes
Topic: 4118 Message: 4131

Those venturi pumps don't pull much vacuum. Even diaphragm recip
pumps will only pull down to about 100 mbar (50K'). Look for oil-type
vane pumps to get above 100K'. Some folks have had luck with refrigeration
compressors, but most rely on freon for lube and cooling.

73 de Mike W5VSI, EOSS

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Date: 2008-03-28 04:54:44 UTC
From: Mike Manes
Topic: 4118 Message: 4132

Hi John,

Your vacuum guage most likely reads relative to your ambient pressure rather than absolute. At sea level, standard baro pressure is 29.92" Hg. If that were your ambient, then the absolute vacuum you read was 29.92 - 25 = 4.92"Hg x 25.4 mm/in = 125 mmHg or about 43K'.

BTW, I don't think any other physical parameter has as many different units of measure as pressure. E.g., psi, Torr, Bar, Atm, Pascal, mmHg, inHg, kg/cm^2, inH20, etc. ad nauseum.

Fortunately, there are a few "aliases":
1 mmHg = 1 Torr
1 hPa = 1 mbar
1 bar = 1 atm

And there are a few rules of thumb:
1 Atm = 760 Torr = 1013 mbar (used to be 1000 mbar)
Baro pressure drops by a factor of 10 every 50K', so 50K' -> 100 mbar, 100K' -> 10 mbar, 150K' -> 1 mbar. See why it's tough to hit 120K'?

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>>>>> electronics testing. You can sometimes rely on latent heat for latex
>>>>> flights, but longer than a few hours and you either have to survive
>>>>> cold or turn on the heater. We have made a chamber with a large
>>>>> styrofoam cooler (2" walls) using a DS1820 temp sensor to
>>>>> thermostatically control a 5" PC fan. The cooler we had was actually
>>>>> a dry-ice medical shipping container, obtained (for free) by request
>>>>> from a local pharmacy. Using 15lbs of dry ice allows -50C for over 48
>>>>> hours undisturbed. At most grocery stores that carry it, dry ice goes
>>>>> for $1.00/lb. I think electronics testing firms recommend no more
>>>>> than 4 degrees C per minute (down or up) to ensure even contraction or
>>>>> expansion of all electrical components.
>>>>>
>>>>> http://www.sas.org/tcs/weeklyIssues_2008/2008-02-01/project2/index.html
>>>>>
>>>>> 73,
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>>> Mike Manes mrmanes@... Tel: 303-979-4899
>>> "Things should be made as simple as possible, but not more so."
>>> A. Einstein
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4134. Re: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 05:01:48 UTC
From: Mike Manes
Topic: 4118 Message: 4134

BTW, a mercury manometer can make for a good, accurate absolute
pressure guage, if it's filled completely to one sealed end. When the
Hg column is turned vertical so the filled end is at the top,
the top will develop a near perfect hard vacuum as a reference.
Getting mercury nowdays is harder than getting a ton of ammonium
nitrate, sadly.

73 de Mike W5VSI

John C Nordlie wrote:
> Here's a chamber I built last year:
>
> http://blizzard.rwic.und.edu/~nordlie/vacuum_chamber/
>
> It's made from 8" PVC pipe, some 1/2" thick lexan squares,
> gaskets cut from rubber sheet, and pumped down by two dry
> vane compressors hooked in series.
>
> The pumps will only pull around 25" of mercury (sorry for
> the obsure units, that's the only gauge I had), which if I
> recall correctly is only about 50k feet worth of altitude
> (someone correct me if I'm wrong).
>
> My concern with trying to cool this is that the plastic might
> get brittle at such cold temps. I suppose a steel tank from
> an air compressor would make a decent chamber, if one end were
> cut off and a flange welded on.
>
> On Thu, 27 Mar 2008, Mike Manes wrote:
>
>> A large Pyrex mixing bowl has been used as a bell jar. The base plate
>> was a sheet of 1/2" Al with wide foam weather strip on the rim of
>> the bowl serving as a vacuum seal. The base plate is fitted with a
>> threaded fitting for the vacuum pump and an other test ports. The
>> EOSS vacuum chamber is a 10"x16"x16" box made from 5/8" plexiglas sheet
>> epoxied at the seams. It does flex noticeably, however.
>>
>> 73 de Mike W5VSI, EOSS
>>
>> PAUL VERHAGE wrote:
>>> I'd love to do something like this. I would want to find an affordable way to do this.
The vacuum side and crush resistant container will be expensive.
>>>
>>> Paul
>>>

>>>>>> John C Nordlie <nordlie@...> 03/27/08 10:12 AM >>>
>>> Hi Paul,
>>>
>>> Neat design! Have you ever integrated a vacuum chamber with this
>>> to also simulate altitude? We've used both freezers and a homebrew
>>> vacuum chamber to test stuff in the past, but never both at once. Has
>>> anyone built something that can do a frigid, sparse atmosphere?
>>>
>>> On Tue, 25 Mar 2008, PAUL VERHAGE wrote:
>>>
>>>> The tutorial is for a column on BalloonSats I'm writing for the Society of Amateur
Scientists. The column is my book on BalloonSats.
>>>>
>>>> Eventually, I want to set up something for SAS members to get their experiments
flights with near space groups.
>>>>
>>>> Paul
>>>>
>>>>>>> Dan Bowen <dbowen1@...> 03/24/08 11:40 PM >>>
>>>> Hi All,
>>>> I just came across a nice tutorial for a cryogenic test chamber.
>>>> These have been invaluable in our long duration flight testing, and I
>>>> wish we had thought to make one a long time ago, even for short flight
>>>> electronics testing. You can sometimes rely on latent heat for latex
>>>> flights, but longer than a few hours and you either have to survive
>>>> cold or turn on the heater. We have made a chamber with a large
>>>> styrofoam cooler (2" walls) using a DS1820 temp sensor to
>>>> thermostatically control a 5" PC fan. The cooler we had was actually
>>>> a dry-ice medical shipping container, obtained (for free) by request
>>>> from a local pharmacy. Using 15lbs of dry ice allows -50C for over 48
>>>> hours undisturbed. At most grocery stores that carry it, dry ice goes
>>>> for $1.00/lb. I think electronics testing firms recommend no more
>>>> than 4 degrees C per minute (down or up) to ensure even contraction or
>>>> expansion of all electrical components.
>>>>
>>>> http://www.sas.org/tcs/weeklyIssues_2008/2008-02-01/project2/index.html
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>>>> 73,
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>>>> K2VOL
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4135. RE: [GPSL] Cryogenic Test Chamber article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 06:17:01 UTC
From: Rick von Glahn
Topic: 4118 Message: 4135

Here are a few more pix of the EOSS vac chamber.

http://www.eoss.org/hardware/vacuum.htm

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Mike Manes
> Sent: Thursday, March 27, 2008 9:17 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] Cryogenic Test Chamber article
>
> EOSS's chamber was a donation from a company that used it for testing
> smoke detectors, and we got got a 1/2 HP Welch vane pump from an Ebay
> seller for $75 - cheap because of a badly frayed power cord and some
> contamination in the oil. It does pull down to 0.8 Torr (>150K'),
> however, on a good day. I've attached a lousy pix.
>
> An interesting resource: http://www.belljar.net/index.htm
>
> 73 de Mike W5VSI
>
> PAUL VERHAGE wrote:
> > So we need to build a Styrofoam box under the metal bottom of a
> vacuum chamber. Without a functioning fan to ciculate cold air, we're
> relying on thermal conduction to chill the payload.
> >
> > It seems to me that vacuum systems are expensive. I wonder if
> something could be rigged up in a metal enclosure. We really don't
> need to see inside the chamber. Or if we have to, we could use a
> small, cheap digital camcorder and light.
> >
> > Paul
> >
> >>>> Mike Manes <mrmanes@...> 03/27/08 8:35 PM >>>
> > Hi John,
> >
> > Of course, it would be possible to put dry ice in a vacuum chamber,
> > but the sublimation temperature would drop considerably. From my
> > Dad's
> > 1937 Ed of Hdbk Chem Phys, the saturated vapor temp of solid CO2 at
> 10
> > mbar (100K') is about -120C, compared to -80C at 1 atm. But since
> the
> > dry ice isn't that cold by the time you get it, the vacuum would most

> > likely cause the vaporization rate to accelerate.
> >
> > Since C02 combines with water vapor to form carbonic acid, one may
> > risk corrosion damage to the vacuum pump. If the dry ice were
> > enclosed in a pressure vessel at room ambient with good thermal
> > conduction, that problem could be averted.
> >
> > Such a system would allow one to evaluate the effectiveness of heat
> > sinks, however, which lose effectiveness as convectors at 10 mbar and
> > thus must rely on radiative heat transfer to the environment.
> > Fortunately, radiative transfer varies as the 4th power of
> temperature difference.
> >
> > 73 de Mike W5VSI, EOSS
> >
> > John C Nordlie wrote:
> >> Hi Paul,
> >>
> >> Neat design! Have you ever integrated a vacuum chamber with this
> >> to also simulate altitude? We've used both freezers and a homebrew
> >> vacuum chamber to test stuff in the past, but never both at once.
> >> Has anyone built something that can do a frigid, sparse atmosphere?
> >>
> >> On Tue, 25 Mar 2008, PAUL VERHAGE wrote:
> >>
> >>> The tutorial is for a column on BalloonSats I'm writing for the
> Society of Amateur Scientists. The column is my book on BalloonSats.
> >>>
> >>> Eventually, I want to set up something for SAS members to get their
> experiments flights with near space groups.
> >>>
> >>> Paul
> >>>
> >>>>>> Dan Bowen <dbowen1@...> 03/24/08 11:40 PM >>>
> >>> Hi All,
> >>> I just came across a nice tutorial for a cryogenic test chamber.
> >>> These have been invaluable in our long duration flight testing, and
> >>> I wish we had thought to make one a long time ago, even for short
> >>> flight electronics testing. You can sometimes rely on latent heat
> >>> for latex flights, but longer than a few hours and you either have
> >>> to survive cold or turn on the heater. We have made a chamber with
> >>> a large styrofoam cooler (2" walls) using a DS1820 temp sensor to
> >>> thermostatically control a 5" PC fan. The cooler we had was
> >>> actually a dry-ice medical shipping container, obtained (for free)
> >>> by request from a local pharmacy. Using 15lbs of dry ice allows
> >>> -50C for over 48 hours undisturbed. At most grocery stores that
> carry it, dry ice goes
> >>> for $1.00/lb. I think electronics testing firms recommend no more
> >>> than 4 degrees C per minute (down or up) to ensure even contraction
> >>> or expansion of all electrical components.

> >>>
> >>> http://www.sas.org/tcs/weeklyIssues_2008/2008-02-
> 01/project2/index.h
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> >>> Dan
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> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
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4136. [Fwd: TWIG]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 18:48:09 UTC
From: Mike Manes
Topic: 4136 Message: 4136

A kewl alternative to FindMeSpot that uses GSM cell sites vice satcomm
for backhaul. One can hit it direct from one's cell within range.
But kinda pricey at EU399 (US$638 nowadays!) - seems the web mapping
feature is free though. And I don't think GSM is widely available
in the US yet.

Norm passed on a message from a Finnish researcher who put it on
a high altitude payload and used it for recovery on 2 separate flights.

73 de Mike W5VSI

-------- Original Message --------
Subject: TWIG
Date: Fri, 28 Mar 2008 08:21:37 -0600
From: Norman T. Kjome <Kjome@...>
To: Mike Manes <mrmanes@...>
References: <BAYC1-PASMTP1205454F274635C71F56D1B0FC0@...>
<47E989F7.50601@...>
<3549EB2C8AA09F41B6AAB0BC0F816DF801E4415B@...>
<47EB1C49.7010602@...>
<3549EB2C8AA09F41B6AAB0BC0F816DF801E44160@...>
<47EC432A.2000106@...>

http://www.twigworld.com/catalog/product_info.php?cPath=1_41&products_id=64
<http://www.twigworld.com/catalog/product_info.php?cPath=1_41&products_id=64>

description of the GPS locator

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4137. Re: [GPSL] [Fwd: TWIG]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 19:05:45 UTC
From: Dan Bowen
Topic: 4136 Message: 4137

AT&T and T-Mobile is GSM here, sparkfun.com may have cheaper raw
serial GSM modules that you could use.

Thanks,
Dan

Sent from my iPhone

On Mar 28, 2008, at 2:48 PM, Mike Manes <mrmanes@...> wrote:

> A kewl alternative to FindMeSpot that uses GSM cell sites vice satcomm
> for backhaul. One can hit it direct from one's cell within range.
> But kinda pricey at EU399 (US$638 nowadays!) - seems the web mapping
> feature is free though. And I don't think GSM is widely available
> in the US yet.
>
> Norm passed on a message from a Finnish researcher who put it on
> a high altitude payload and used it for recovery on 2 separate
> flights.
>
> 73 de Mike W5VSI
>
> -------- Original Message --------
> Subject: TWIG
> Date: Fri, 28 Mar 2008 08:21:37 -0600
> From: Norman T. Kjome <Kjome@...>
> To: Mike Manes <mrmanes@...>
> References: <BAYC1-PASMTP1205454F274635C71F56D1B0FC0@...>
> <47E989F7.50601@...>
> <3549EB2C8AA09F41B6AAB0BC0F816DF801E4415B@...>
> <47EB1C49.7010602@...>
> <3549EB2C8AA09F41B6AAB0BC0F816DF801E44160@...>
> <47EC432A.2000106@...>
>
> http://www.twigworld.com/catalog/product_info.php?cPath=1_41&products_id=64
> <http://www.twigworld.com/catalog/product_info.php?cPath=1_41&products_id=64
> >
>
> description of the GPS locator
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

4138. TWIG and FindMeSpot GPS trackers

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 20:10:43 UTC
From: wb8elk@aol.com
Topic: 4138 Message: 4138

Hi Mike,

Sounds neat on the TWIG but that sure is pricey. The big advantage I can see for the FindMeSpot is that it will work in places where there is no GSM cell coverage or APRS coverage. I really like that direct uplink to the satellites. Unfortunately the other Globalstar, Iridium and Inmarsat options require you to buy satellite modems that are over $1000 each and with very pricey usage charges, so the FindMeSpot is incredibly attractive as far as price and usage fees (they get this pricing since they are only sending a 9 byte message each time)...unfortunately, it won't work above 60k feet or give altitude readings....but since it comes back to life after passing below 60k feet, it sure does make a great backup recovery system.

I have my Spot unit disassembled on my workbench....looks like I might be able to get it to do greater than 24 hour reporting without too much trouble, but replacing the onboard GPS receiver with one that works above 60k feet is probably not very doable since the GPS chipset and antenna is highly integrated into the single circuit board of the Spot.

- Bill WB8ELK

**********Create a Home Theater Like the Pros. Watch the video on AOL Home.
(http://home.aol.com/diy/home-improvement-eric-stromer?video=15&ncid=aolhom00030000000001)

4139. Re: [GPSL] TWIG and FindMeSpot GPS trackers

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 21:24:44 UTC
From: Mike Manes
Topic: 4138 Message: 4139

Hi Bill,

I guess one advantage that the Twig GSM unit has is that you can "ping" it from your cell phone directly when no cell sites are available. If one goes to the "last heard" location during descent, that could put you in such a "simplex" range.

GL putting mods in. I kinda doubt that the schematic is available on the web :={. And even if you were able to get an OpenScud GPS engine hooked in, the link protocol prolly doesn't support GGA.

BTW, since most new cell phones are E911-enabled, could you get backup location data simply by calling the cell phone on the payload? Now, don't even ASK about what the roaming charges might come to!

73 de Mike W5VSI

wb8elk@... wrote:
> Hi Mike,
>
> Sounds neat on the TWIG but that sure is pricey. The big advantage I
> can see for the FindMeSpot is that it will work in places where there is
> no GSM cell coverage or APRS coverage. I really like that direct uplink
> to the satellites. Unfortunately the other Globalstar, Iridium and
> Inmarsat options require you to buy satellite modems that are over $1000
> each and with very pricey usage charges, so the FindMeSpot is incredibly
> attractive as far as price and usage fees (they get this pricing since
> they are only sending a 9 byte message each time)...unfortunately, it
> won't work above 60k feet or give altitude readings....but since it
> comes back to life after passing below 60k feet, it sure does make a
> great backup recovery system.
>
> I have my Spot unit disassembled on my workbench....looks like I might
> be able to get it to do greater than 24 hour reporting without too much
> trouble, but replacing the onboard GPS receiver with one that works
> above 60k feet is probably not very doable since the GPS chipset and
> antenna is highly integrated into the single circuit board of the Spot.
>
> - Bill WB8ELK
>
>
>
>
>
>
> --

> Create a Home Theater Like the Pros. Watch the video on AOL Home
> <http://home.aol.com/diy/home-improvement-eric-stromer?video=15&ncid=aolhom0003000000000
1>.
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4140. GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-28 21:14:41 UTC
From: Nick Hanks
Topic: 4140 Message: 4140

EOSS is looking at getting blue T-shirts for GPSL this year. Any group already chosen blue?

Nick
N0LP
EOSS GPSL Coordinator

4141. Re:GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-29 02:40:06 UTC
From: dlkaiser@kc.rr.com
Topic: 4140 Message: 4141

The sponsors have selected the light blue color for their shirts.
Sorry, it is already taken.

Thanks.

4142. RE: [GPSL] Re:GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-29 03:35:11 UTC
From: Nick Hanks
Topic: 4140 Message: 4142

Thanks. Will choose another color and run it by the group.

Nick

To: GPSL@yahoogroups.comFrom: dlkaiser@...: Fri, 28 Mar 2008 21:40:06 -0500Subject: [GPSL] Re:GPSL 2008 T-Shirts

The sponsors have selected the light blue color for their shirts. Sorry, it is already taken.Thanks.

4143. RE: [GPSL] Re:GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-29 11:11:08 UTC
From: PAUL VERHAGE
Topic: 4140 Message: 4143

What about a dark blue? Is that taken? I'd like dark blue for NearSys.

Paul

>>> Nick Hanks <ndhanks@...> 03/28/08 9:35 PM >>>

Thanks. Will choose another color and run it by the group.

Nick

To: GPSL@yahoogroups.comFrom: dlkaiser@...: Fri, 28 Mar 2008 21:40:06 -0500Subject: [GPSL] Re:GPSL 2008 T-Shirts

The sponsors have selected the light blue color for their shirts. Sorry, it is already taken.Thanks.

4144. Re: [GPSL] Re:GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-29 14:20:07 UTC
From: Greg Williams
Topic: 4140 Message: 4144

Is anyone keeping track of the color distribution?

Might be better than having people ask if x-color is taken.

I know UTARC is going with Orange (although I had to get pink for my kids :-)).

Greg

PAUL VERHAGE wrote:
>
> What about a dark blue? Is that taken? I'd like dark blue for NearSys.
>
> Paul
>
> >>> Nick Hanks <ndhanks@... <mailto:ndhanks%40msn.com>> 03/28/08
> 9:35 PM >>>
>
> Thanks. Will choose another color and run it by the group.
>
>
> Nick
>
>
> To: GPSL@yahoogroups.comFrom <mailto:GPSL%40yahoogroups.comFrom>:
> dlkaiser@... <mailto:dlkaiser%40kc.rr.comDate>: Fri, 28 Mar
> 2008 21:40:06 -0500Subject: [GPSL] Re:GPSL 2008 T-Shirts
>
> The sponsors have selected the light blue color for their shirts.
> Sorry, it is already taken.Thanks.
>
>

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4145. RE: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-29 17:56:32 UTC
From: Nick Hanks
Topic: 4140 Message: 4145

On the T-shirts, looks like light blue and orange have been taken. How about yellow?

Nick

-----Original Message-----
From: Nick Hanks [mailto:ndhanks@...]
Sent: Friday, March 28, 2008 15:15 PM
To: GPSL@yahoogroups.com
Cc: Keith Kaiser
Subject: GPSL 2008 T-Shirts

EOSS is looking at getting blue T-shirts for GPSL this year. Any group already chosen blue?

Nick
N0LP
EOSS GPSL Coordinator

4146. Re: [GPSL] RE: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-29 20:50:34 UTC
From: Meer, Stephen
Topic: 4140 Message: 4146

Or maybe a green?
This message has been sent via the Intrado Wireless Information Network.

----- Original Message -----
From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Cc: Keith Kaiser <keith.kaiser@gmail.com>
Sent: Sat Mar 29 11:56:32 2008
Subject: [GPSL] RE: GPSL 2008 T-Shirts

On the T-shirts, looks like light blue and orange have been taken. How about yellow?

Nick

-----Original Message-----
From: Nick Hanks [mailto:ndhanks@msn.com]
Sent: Friday, March 28, 2008 15:15 PM
To: GPSL@yahoogroups.com
Cc: Keith Kaiser
Subject: GPSL 2008 T-Shirts

EOSS is looking at getting blue T-shirts for GPSL this year. Any group already chosen blue?

Nick
N0LP
EOSS GPSL Coordinator

4147. Re: [GPSL] RE: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-30 00:33:03 UTC
From: Mark Conner
Topic: 4140 Message: 4147
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4148. COLOR we use in MAINE is RED

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-30 19:03:31 UTC
From: lt
Topic: 4148 Message: 4148

In the past and recent purchase we have been doing RED for the EOSRED group.

w1lwt-LEE

4149. Re: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-31 02:00:46 UTC
From: Nicholas Stich
Topic: 4140 Message: 4149

--- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
> We may not be able to deconflict all of the color choices. For
>example, I know that yellow is used by ORB and orange has been used
>by NSTAR for a number of years. Similar for blue and EOSS. While it
>would be nice for each group to have its own color, we may have
>some 'conflict' in the various traditions and selections.

I have been using yellow for the group that flies with me for the last several years and plan to use that color again this year. I don't find it to be a problem if others want to use the same color.

Nick in Topeka,
WPWG368 & K0NMS

4150. Lunch Survey RSVP

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-31 02:31:51 UTC
From: dlkaiser@kc.rr.com
Topic: 4150 Message: 4150

Please review and respond to the survey on the official site regarding your Friday lunch preferences. I need to know if people are interested in the $10
"build a sandwich" and soup option or not. If there are at least 25 interested, then we will need to collect funds and make reservations.

Thanks so much for your help!

4151. Re: [GPSL] COLOR we use in MAINE is RED

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-31 19:22:27 UTC
From: Tim Reid
Topic: 4148 Message: 4151

In the past and recent purchase we have been doing RED for the EOSRED
group.

w1lwt-LEE

I was thinking about red for the GPSL 2008 host shirts. But you know what happens to the poor and lowely red-shirt crewman that beams down to the unlabled planet with Kirk and Spock! ;)

Tim

OMG, Sweet deal for Yahoo! users/friends:Get A Month of Blockbuster Total Access, No Cost. W00t
http://tc.deals.yahoo.com/tc/blockbuster/text2.com

4152. Re: [GPSL] COLOR we use in MAINE is RED

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-31 19:51:47 UTC
From: Keith Kaiser
Topic: 4148 Message: 4152

I do indeed. Good thing we didn't invite Kirk.

On Mar 31, 2008, at 2:22 PM, Tim Reid wrote:

>
>
>
>
>
>
>
> In the past and recent purchase we have been doing RED for the EOSRED
> group.
>
> w1lwt-LEE
>
>
>
> I was thinking about red for the GPSL 2008 host shirts. But you
> know what happens to the poor and lowely red-shirt crewman that
> beams down to the unlabled planet with Kirk and Spock! ;)
>
> Tim
>
> OMG, Sweet deal for Yahoo! users/friends: Get A Month of Blockbuster
> Total Access, No Cost. W00t
>
>

4153. Re: [GPSL] COLOR we use in MAINE is RED

Yahoo group: GPSL (2002 — 2008)
Date: 2008-03-31 20:56:42 UTC
From: PAUL VERHAGE
Topic: 4148 Message: 4153
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4154. Re: [GPSL] COLOR we use in MAINE is RED

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-01 03:24:06 UTC
From: Nick Hanks
Topic: 4148 Message: 4154

Keith,

EOSS is going with the dark blue T-shirts.

73,

Nick
NØLP
EOSS GPSL Coordinator

----- Original Message -----
From: Keith Kaiser
Sent: Monday, March 31, 2008 12:51
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] COLOR we use in MAINE is RED

I do indeed. Good thing we didn't invite Kirk.

On Mar 31, 2008, at 2:22 PM, Tim Reid wrote:

In the past and recent purchase we have been doing RED for the EOSRED
group.

w1lwt-LEE

I was thinking about red for the GPSL 2008 host shirts. But you know what happens to the poor and lowely red-shirt crewman that beams down to the unlabled planet with Kirk and Spock! ;)

Tim

OMG, Sweet deal for Yahoo! users/friends: Get A Month of Blockbuster Total Access, No Cost. W00t

Get more from the Web. FREE MSN Explorer download : http://explorer.msn.com

4155. Canon PowerShot A560 results

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-02 14:12:50 UTC
From: Mark Conner
Topic: 4155 Message: 4155

NSTAR Flight 08-A featured our first use of the Canon PowerShot A560 7.1 Mpixel camera using the CHDK firmware. Overall the results were excellent. The camera ran for the entire flight on one set of Energizer lithium AA batteries (the blue/silver ones). I shut the LCD display off prior to the flight to help with the battery life. According to the temp sensor in the payload the camera approached -15C in temperature but continued to function. I had sort of tested the cold operation capability of this camera during the lunar eclipse in February - it was about -10 to -12C that evening and I left it outside for an hour taking photos automatically.

The CHDK firmware (http://chdk.wikia.com) allows scripting of common camera functions, to include a customizable intervalometer function. Almost anything that can be controlled from the buttons on the camera can be included in the script. I had mine set to take full-resolution pictures every 20 seconds and got around 1 Gbyte of images during the 2 hours and 15 minutes the camera was active.

The firmware can be set to 'boot' from the SD card at power-up, and a default script can also be ready after the power-on sequence. This makes launch preparation very easy - power on the camera, turn display off, click shutter button to start the script. Best of all, this does not require any camera disassembly or any other permanent mods to the camera itself. The original Canon firmware is intact and the camera can be returned to normal operation by either disabling the SD card firmware load, or inserting another card that does not contain the firmware. I plan to keep the camera in my car for grabbing photos of severe weather or whatever. I've also experimented with making time-lapse movies using the intervalometer function and some JPEG-to-AVI conversion software and have been very impressed with those results too.

The camera will take SD High Capacity cards of 4 Gb or more, according to the manual. I used a 2 Gbyte card for this flight, which can be found for about $15-$20 now. It will also take AVI movies and the CHDK firmware reportedly allows movies of >2 Gbytes in length and I think a 4 Gbyte card would capture an entire flight if the frame rate or quality is reduced a bit.

The cameras typically go for $85-$100 used on eBay. I believe newegg.com still has some new or refurbed ones for around $125. I don't believe these are in production anymore, so if you want one don't dawdle too long.

I will have a full set of photos on www.nstar.org in a few days (when you have >400 to review, it can be tough to edit them down). We got several with the moon in the frame as it was setting in the west near our burst time. A sample image is on the website now.

If you are looking for a high-quality digital camera to fly on your payload with a minumum of integration issues, you can't go far wrong with the Canon PowerShot A560. Others in the A500 or A600 series should perform equally well. If you plan to use the CHDK firmware, consult the site to make sure your particular model is supported.

Thanks to someone in the ANSR group for posting the note regarding the CHDK firmware availability (I can't find the original e-mail right now) - without that note I would not

have known about this capability.

73 de Mark N9XTN
www.nstar.org

4156. Re: [GPSL] Canon PowerShot A560 results

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-02 16:54:52 UTC
From: wb8elk@aol.com
Topic: 4155 Message: 4156

Mark,

What time-lapse editing software are you using?...I want to do a time lapse movie of my collection of photos from our last flight using the A560 and A570IS cameras...the one pointing up at the balloon is particularly interesting as the sky turns blacker and blacker as the balloon gets larger and larger.

- Bill WB8ELK

**********Planning your summer road trip? Check out AOL Travel Guides. (http://travel.aol.com/travel-guide/united-states?ncid=aoltrv00030000000016)

4157. SNOX V Launch date

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-04 03:40:50 UTC
From: Greg Williams
Topic: 4157 Message: 4157

Hello,
The Spirit of Knoxville V (SNOX V) balloon will launch this weekend
from Knoxville, TN. Please visit http://spiritofknoxville.com for more
information and live flight tracking. This will be the last SNOX flight
this season, the trans-atlantic jet stream wind is slowing as warm
weather arrives.

8PM EDT Saturday April 5
(0000 UTC April 6)

Thank you,
The Spirit of Knoxville Crew

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4158. KWU Physics Club is going for altitude record

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-05 05:48:19 UTC
From: Greg Williams
Topic: 4158 Message: 4158

Looks like precedents are being set all over the ARHAB world this month.

Greg

http://www.kwu.edu/publicrelations/stories/200708/balloonsp08.html

KWU Physics Club is going for altitude record
with upcoming balloon launch

MEDIA CONTACT: Leslie Eikleberry, Director of Public Relations,
785-827-5541 ext. 1127

April 3, 2008

The Kansas Wesleyan University Physics Club has its sights set high for its upcoming balloon launch.

The club plans to launch its third balloon at 8 a.m. April 12 in Martin Stadium. The launch is open to the public at no charge.

This time, however, club members hope their balloon will soar to a new amateur balloon altitude record, according to Dr. Susan McDonald, Chair in the Department of Mathematics and Physic.

?We are lightening up the load and going for altitude this time,? McDonald said.

She explained that the Physics Club members wanted to see what modifications they needed to try to break the altitude record.

?They are making two changes ? mass of the payload and the balloon lift. The balloon lift is determined by the amount of helium and the mass of the balloon including payload,? McDonald said. ?This is a good exercise in engineering for these students as they work on modifying their experiment and see the impact on the balloon altitude.?

In December 2006, the Kansas Wesleyan Physics Club, with the help of the Salina Ham Radio Club, launched its first high altitude balloon, which carried a payload consisting of a video camera, a temperature logger, and a GPS tracking device. The multi-faceted experiment was designed as a fun way for students to study the Earth?s atmosphere. Additionally, some of the University?s pre-engineering students used the experiment as their final design project. The group tracked the balloon from its launch at Martin Stadium to western Missouri, where the GPS signal was lost. With the help of Ham Radio operators, the balloon and payload eventually were found in a field in western Illinois.

In November 2007, the group launched another balloon, this time carrying a payload that included temperature probes, an accelerometer, a video camera, and a GPS transmitter. The balloon came down in rural Lyon County, a few miles northwest of Emporia. The project was able to gather data on location, altitude, and temperature both inside and outside the payload, McDonald said. The group was interested in the inside temperature because prior to the launch, a hand warmer was added to provide heat for the measuring instruments.

McDonald said the current altitude record for an amateur balloon is 120,522 feet set in March 1999. For more information about amateur balloon launch records, please go to http://showcase.netins.net/web/wallio/ARHABrecords.htm .

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4159. SNOX V ATC Volunteers needed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-05 05:58:28 UTC
From: Dan Bowen
Topic: 4159 Message: 4159

Hi DTRC listeners,
We are going to be in contact a lot with Air Traffic Control on this flight, and we could use a hand, as there are only 2 of us able to do it in the group so far. It involves telephoning ATC every 15 or 30 minutes to give position reports as presented on a certain web page. We need about 2 more people to split it up into manageable shifts. Please email me if you have experience with talking to ATC and would like to help! (we need some sleep after these weeks of construction!)
Thanks,
Dan
K2VOL
Spirit of Knoxville
http://Spiritofknoxville.com

4160. Launching large

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-05 19:06:29 UTC
From: Dan Bowen
Topic: 4160 Message: 4160

Anyone out there have data on large balloons launching in light rain through low clouds? Looks like our launch window tonight may have some light rain in it.
Thanks,
Dan
UTARC

4161. Blog entry on ballooning

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-05 20:51:30 UTC
From: Greg Williams
Topic: 4161 Message: 4161

Received this in my inbox today:
Greg

Pardon my broadcast style, I've just posted a new blog entry regarding ARHAB and the current attempts to "float to Europe" via http://www.somenet.net ...

I'm hoping that this may help stir up some folks to listen for and contribute to the distributed telemetry gathering process ...

Feel free to comment and/or add links to the post, registration is not required. Good luck and good weather to the flyers ..!..

73 and thanks for your time /;^)
-- <- WB5RMG is Alan Sieg * http://wb5rmg.somenet.net ->

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4162. Re: [Balloon_Sked] Launching large

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-05 22:54:34 UTC
From: K. Mark Caviezel
Topic: 4162 Message: 4162

Dan:
A look at the performance chart for your balloon indicates that you can collect and haul 7 lbs of ice to 10km float altitude if you get that much ice.

That would require 7+3.5(balloon) + 11.5(payloads) = 23 lbs buoyancy gross inflation to make that scenario come true.

7 lbs of ice is a layer only 0.036" thick on the entire cross section, but like I said before, the Global Western TA Balloon's pillow top design will likely shed ice off the top.

Admittedly your SNOX V will be the guinea pig, but I still recommend launch on schedule.

Pay heed to Robert's caution about super cooled clouds - you'll collect a TON of ice should you encounter those.

- Mark ng0x

--- Robert Rochte <rochte@...> wrote:

> After running out to get some lunch and watching the
> clouds on the
> way, let me revise my answer slightly:
>
> I've only flown through rain during the day and I
> was at least partly
> relying on solar heating (above the clouds) to keep
> any water on the
> balloon from freezing before it drained off. I also
> wasn't trying to
> reach a particular altitude and float in these
> cases.
>
> I would imagine that a certain amount of water would
> still be on your
> balloon as it rises above the freezing level (even
> if the clouds are
> *not* supercooled). If so, then at a minimum your
> system (unless it
> has changed) would likely dump ballast equal to the
> weight of the ice
> to reach the programmed float. Then, if my theory

> about solar heating
> is correct (it was only a theory - the balloons
> worked, but who knows
> if this is actually why), sometime tomorrow your
> balloon will shed
> that extra weight and rise to a higher level.
>
> The question would then become, do you have enough
> ballast to spare on
> a thin layer of ice? Additionally, if the balloon
> ends up higher than
> anticipated during the day tomorrow and is
> subsequently slowed down
> (things are already slowing down at 12km), do you
> have enough ballast
> and battery to last through the rest of the flight?
>
> Anyway, just some thoughts...
>
> -R
>
> On Sat, Apr 5, 2008 at 3:06 PM, Dan Bowen
> <dbowen1@...> wrote:
> >
> >
> >
> >
> > Anyone out there have data on large balloons
> launching in light rain
> > through low clouds? Looks like our launch window
> tonight may have
> > some light rain in it.
> > Thanks,
> > Dan
> > UTARC
> >
>

4163. SNOX V in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-06 02:21:51 UTC
From: gregwilliams@knology.net
Topic: 4163 Message: 4163

Launch at 10:00 PM Eastern (0200Z)

Delay due to launch issue and weather. More later.

GO SNOX GO!!!

Greg Williams

4164. RE: [GPSL] SNOX V in the air

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-06 03:23:38 UTC
From: Patterson, David
Topic: 4163 Message: 4164

Taylor University's High Altitude Research Platform team is watching and rooting for you. Good luck and Godspeed!

- David Patterson
dvpatterson@tayloru.edu
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of gregwilliams@...
Sent: Sat 4/5/2008 10:21 PM
To: chat@utarc.org; ballooning@yahoogroups.com; gpsl@yahoogroups.com
Subject: [GPSL] SNOX V in the air

Launch at 10:00 PM Eastern (0200Z)

Delay due to launch issue and weather. More later.

GO SNOX GO!!!

Greg Williams

4165. SNOX V located

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-06 22:00:49 UTC
From: gregwilliams@knology.net
Topic: 4165 Message: 4165

K3SPC located payload. Is on private property. Attempt made to contact property owner (not home).

Message left with owner on home phone and note on door.

Guess where payload is? It rhymes with "Pin a tree"...

They said it appears to have a lot of helium left in the balloon. he speculated half full, but it was being blown around in wind. Just below two peaks in a valley. Terrain is rough.

He will email pics to me and I will post them once I get them.

Greg Williams
K4HSM

4166. BalloonSat Wiki

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-07 16:19:37 UTC
From: PAUL VERHAGE
Topic: 4166 Message: 4166

I created a wiki entry for BalloonSats. If you get a chance, please look it over and make changes.

Paul

4167. Create KML (Google Earth) files from GPS data thru web interface

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-08 17:08:25 UTC
From: Mark Conner
Topic: 4167 Message: 4167
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4168. Videos

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-09 14:46:47 UTC
From: PAUL VERHAGE
Topic: 4168 Message: 4168

You can find the FIRST video (along with some others) on my webpage.

Go to NearSys.org and click the Multimedia link.

Paul

4169. Anyone able to listen on 14.103 - trying to capture the final position

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-12 21:23:06 UTC
From: wb8elk@aol.com
Topic: 4169 Message: 4169

The WB8ELK balloon has landed near Lakeside TN (south of Knoxville)....it's transmitting on 14.103 MHz USB RTTY (center carrier of 14.105)....since the band is open, I was wondering if anyone can listen for it to see if we can get a final landing spot for it...it will continue to transmit until Sunday evening.

It reached a maximum height of 100,367 feet....had perfect copy on it throughout the flight and heard it down to about 18,000 feet here from 150 miles away. It was running 400 milliwatts.....the transmitter didn't seem to drift or flutter at all during the flight and even after burst.

- Bill WB8ELK

**********It's Tax Time! Get tips, forms and advice on AOL Money & Finance. (http://money.aol.com/tax?NCID=aolcmp00300000002850)

4170. Re: [GPSL] Anyone able to listen on 14.103 - trying to capture the final position

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-12 23:23:12 UTC
From: Keith Kaiser
Topic: 4169 Message: 4170

I heard it here in Kansas City Bill but I didn't have a chance to get the RTTY station open before the signal died.

Good luck on your recovery.

On Apr 12, 2008, at 4:23 PM, wb8elk@... wrote:

> The WB8ELK balloon has landed near Lakeside TN (south of
> Knoxville)....it's transmitting on 14.103 MHz USB RTTY (center
> carrier of 14.105)....since the band is open, I was wondering if
> anyone can listen for it to see if we can get a final landing spot
> for it...it will continue to transmit until Sunday evening.
>
> It reached a maximum height of 100,367 feet....had perfect copy on
> it throughout the flight and heard it down to about 18,000 feet here
> from 150 miles away. It was running 400 milliwatts.....the
> transmitter didn't seem to drift or flutter at all during the flight
> and even after burst.
>
> - Bill WB8ELK
>
>
>
>
> It's Tax Time! Get tips, forms and advice on AOL Money Finance.
>
>

4171. MIT balloon skating along on ocean surface - new reports from Alabama

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-14 01:59:30 UTC
From: wb8elk@aol.com
Topic: 4171 Message: 4171

Still good copy on 10.142 MHz USB here in Huntsville AL:

0252z - CW ID was correct that time

0254z - FN52FC - 42 07.56 68 44.23 00011M

- Bill WB8ELK

**********It's Tax Time! Get tips, forms and advice on AOL Money & Finance. (http://money.aol.com/tax?NCID=aolcmp00300000002850)

4172. Re: [Balloonatics] MIT balloon skating along on ocean surface - new reports f...

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-14 02:13:05 UTC
From: wb8elk@aol.com
Topic: 4172 Message: 4172

Correction...I was off by one hour in those previous reports....should read 01xx UTC instead of 02xx UTC...sorry about that....still getting used to Daylight Savings Time.

- Bill WB8ELK

**********It's Tax Time! Get tips, forms and advice on AOL Money & Finance. (http://money.aol.com/tax?NCID=aolcmp00300000002850)

4173. T-shirt problems?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-17 03:28:08 UTC
From: Tim Reid
Topic: 4173 Message: 4173

Is anyone having any issues with ordering the Zazzle t-shirts for GPSL 2008? I was talking to another GPSL participant who let me know that they were having some issues with women's size t-shirts.

I wondered if anyone else was having any issues at all...

Let me know, please.

Tim
KD0CFE

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4174. Re: [GPSL] T-shirt problems?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-17 04:59:34 UTC
From: Greg Williams
Topic: 4173 Message: 4174

The kids' sizes are fine. I just had my wife try on hers and it is "snug" for a size large. Normally the women's size large are just right or even loose on her.

She also has not washed it yet, so it might shrink even more.

So I would say it is an issue here as well.

All other shirts appear fine thus far. I haven't delivered one to its owner yet, though, but it's a men's large.

Greg

Tim Reid wrote:
> Is anyone having any issues with ordering the Zazzle t-shirts for GPSL
> 2008? I was talking to another GPSL participant who let me know that
> they were having some issues with women's size t-shirts.
>
> I wondered if anyone else was having any issues at all...
>
> Let me know, please.
>
>
> Tim
> KD0CFE
>
> ---
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
> <http://us.rd.yahoo.com/evt=51733/*http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj
9tAcJ%20>
>
>

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4175. NearSys Website

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 01:19:32 UTC
From: PAUL VERHAGE
Topic: 4175 Message: 4175

I can't bring up my NearSys.org website. Is it me or is everyone else having a problem?

Thanks,
Paul

4176. RE: [GPSL] NearSys Website

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 01:23:29 UTC
From: Doug, KA0O
Topic: 4175 Message: 4176

I can't access it either, kicks me to a google page.

Doug

KA0O

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of PAUL VERHAGE
Sent: Thursday, April 17, 2008 8:20 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] NearSys Website

I can't bring up my NearSys.org website. Is it me or is everyone else having a problem?

Thanks,
Paul

4177. RE: [GPSL] NearSys Website

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 02:09:42 UTC
From: Roger Hammond
Topic: 4175 Message: 4177

Fails here, as well.

Rog KC0MWM

>I can't bring up my NearSys.org website. Is it me or is everyone else
having a problem?

4178. Re: [GPSL] NearSys Website

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 02:17:55 UTC
From: Mark Conner
Topic: 4175 Message: 4178
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4179. Re: [GPSL] NearSys Website

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 13:50:47 UTC
From: PAUL VERHAGE
Topic: 4175 Message: 4179

It sounds like a name server problem from what Mike said yesterday. I'll see if it's running now.

Paul

>>> "Mark Conner" <mconner1@...> 04/17/08 8:17 PM >>>
Did you let it expire? I did a whois lookup and got back this result:

Domain ID:D132880577-LROR
Domain Name:NEARSYS.ORG
Created On:14-Nov-2006 23:04:06 UTC
Last Updated On:14-Jan-2007 03:48:27 UTC
Expiration Date:14-Nov-2008 23:04:06 UTC
Sponsoring Registrar:GoDaddy.com, Inc. (R91-LROR)

73 de Mark N9XTN
On Thu, Apr 17, 2008 at 8:19 PM, PAUL VERHAGE <paul.verhage@...>
wrote:

> I can't bring up my NearSys.org website. Is it me or is everyone else
> having a problem?
>
> Thanks,
> Paul
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

4180. Re: [GPSL] NearSys Website

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 14:39:57 UTC
From: PAUL VERHAGE
Topic: 4175 Message: 4180

Troy, is there something we can do about this?

Paul

>>> "PAUL VERHAGE" <paul.verhage@...> 04/18/08 7:50 AM >>>
It sounds like a name server problem from what Mike said yesterday. I'll see if it's running now.

Paul

>>> "Mark Conner" <mconner1@...> 04/17/08 8:17 PM >>>
Did you let it expire? I did a whois lookup and got back this result:

Domain ID:D132880577-LROR
Domain Name:NEARSYS.ORG
Created On:14-Nov-2006 23:04:06 UTC
Last Updated On:14-Jan-2007 03:48:27 UTC
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Sponsoring Registrar:GoDaddy.com, Inc. (R91-LROR)

73 de Mark N9XTN
On Thu, Apr 17, 2008 at 8:19 PM, PAUL VERHAGE <paul.verhage@...g>
wrote:

> I can't bring up my NearSys.org website. Is it me or is everyone else
> having a problem?
>
> Thanks,
> Paul
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

Yahoo! Groups Links

4181. Re: [GPSL] T-shirt problems?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-18 15:14:20 UTC
From: Tim Reid
Topic: 4173 Message: 4181

Thanks for the reply Greg. Two problems are enough for me to think that this is a trend. It seems that Zazzle is using Twiggy look-alikes for their sizing models. I'd encourage all the women planning on getting t-shirts to order at least one size larger than they normaly do. It might be a good thing to order x2 larger for the "babydoll" style.

Greg: Let your wife know that Zazzle has an excellent return policy, and helpful staff, imho. She should be able to call them and have that shirt swapped.

----- Original Message ----
From: Greg Williams <gregwilliams@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, April 16, 2008 11:59:34 PM
Subject: Re: [GPSL] T-shirt problems?

The kids' sizes are fine. I just had my wife try on hers and it is
"snug" for a size large. Normally the women's size large are just right
or even loose on her.

She also has not washed it yet, so it might shrink even more.

So I would say it is an issue here as well.

All other shirts appear fine thus far. I haven't delivered one to its
owner yet, though, but it's a men's large.

Greg

Tim Reid wrote:
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> 2008? I was talking to another GPSL participant who let me know that
> they were having some issues with women's size t-shirts.
>
> I wondered if anyone else was having any issues at all...
>
> Let me know, please.
>
>
> Tim
> KD0CFE
>
> ------------ --------- --------- --------- --------- --------- -
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
> <http://us.rd. yahoo.com/ evt=51733/ *http://mobile. yahoo.com/ ;_ylt=Ahu06i62sR
8HDtDypao8Wcj9tA cJ%20>
>
>

--

Gregory S. Williams
gregwilliams(at)knology. net
k4hsm(at)knology. net

http://www.etskywar n.net
http://www.twiar. org
http://www.icebearn ation.com

_____
Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4182. NearSys

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-19 15:10:33 UTC
From: PAUL VERHAGE
Topic: 4182 Message: 4182

I see that NearSys.com works, but not NearSys.org.

Paul

4183. Taylor University HARP - Upcoming launches

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-19 19:26:47 UTC
From: Patterson, David
Topic: 4183 Message: 4183

Taylor University's High Altitude Research Platform will be launching two missions in the next week:

Thursday, April 24: Launch from The Orchard School in Indianapolis, Indiana. Approx. 65 6th graders have constructed payloads - including the enclosures - ranging from digital cameras to stuffed animals "enhanced" with sensors. The flight will be flying Taylor's telemetry system for primary tracking, and the KB9ZNZ-11 callsign on the 144.39MHz APRS freq. Release is scheduled for between 8:30 and 9:00 AM.

Saturday, April 26: Launch from Taylor University's campus in Upland, Indiana. This launch features research projects from Taylor's Principles of Engineering class, and will be flying Taylor's telemetry system as primary, as well as the KB9ZNZ-11 callsign on 144.39MHz. This launch will also feature a cross-band repeater with 146.46MHz / 446.025MHz up/down. Release is scheduled for around 10 AM.

Feel free to let me know if you have any questions!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

4184. Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 06:35:20 UTC
From: Mike Manes
Topic: 4184 Message: 4184

There's a rather alarming piece on P.96 of the May 2008 QST describing the projected depletion of the National Helium Reserve by 2016. Helium is not a renewable resource, and other than that reserve, the only known "new" sources are natural gas wells which mostly vent He as a contaminant.

Perhaps it's high time that ARHAB gets busy figuring out how to use hydrogen as a fill gas safely? I noticed that the price of our He T-bottles has soared from about $55 to nearly $80 in less than 2 years. Might be a swell topic for the GPSL 2008 conference.

73 de Mike W5VSI, EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4185. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 10:11:48 UTC
From: Joe Lynch
Topic: 4184 Message: 4185

Hi Mike, et al.,

Here is a link to a Science Daily article that more fully explains the helium crisis: http://www.sciencedaily.com/releases/2008/01/080102093943.htm.

73,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

4186. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 13:46:23 UTC
From: Mark Conner
Topic: 4184 Message: 4186

If you're getting a T cylinder for $80, you're getting a pretty good deal. Full rate from Linweld is at least $100 - on my last trip there the guy cut it to $98 for me. I paid $105 at one point last summer.

Hydrogen is $40 per T cylinder at Linweld now, but requires 1-2 week leadtime to ensure they have stock. The Omaha store normally carries T cylinders of helium all the time.

NWS has used hydrogen for many years now for their upper-air observation program. The Topeka office has an upper-air observing station - maybe one of their meteorologists or technicians would be interested in giving a presentation on their safety procedures at GPSL 2008.

From reading their documentation online, they mainly ensure they're grounded for static protection and well-ventilated. Since hydrogen rises, any balloon rupture during the fill would quickly dissipate unlike other gases which might stay on the ground and pool somewhere. Because their UA observation building has a partially-enclosed space at the top, I believe their procedure if they have a balloon rupture inside is to open the doors and vacate the space for a period of time (30 minutes?).

I would think that the risk, while not zero, is pretty low in most ARHAB operations. In Nebraska, we normally have a dampness problem early in the morning and static is pretty unlikely. We also fill outdoors most all of the time. I think if you use standard precautions about flames or other ignition sources, one can use hydrogen safely. To further minimize the risk, spectators should be kept some distance away.

73 de Mark N9XTN

----- Original Message -----
From: Mike Manes <mrmanes@...>
Date: Tuesday, April 22, 2008 12:35 am
Subject: [GPSL] Helium depletion
To: GPSL Balloon Reflector <GPSL@yahoogroups.com>, EOSS Launch Team Reflector <EOSS_LT@yahoogroups.com>
Cc: Christopher J Koehler <Koehler@...>

> Perhaps it's high time that ARHAB gets busy figuring out how to use
> hydrogen as a fill gas safely? I noticed that the price of our He
> T-bottles has soared from about $55 to nearly $80 in less than 2
> years.Might be a swell topic for the GPSL 2008 conference.
>

4187. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 13:56:25 UTC
From: PAUL VERHAGE
Topic: 4184 Message: 4187

Tons of natural gas are transported daily without a problem.

Along with grounded hoses, be sure to use a metal filling pipe, you don't want to insert PVC plastic into a balloon neck and have dry hydrogen gas run through that.

And definitely fill outside.

Paul

4188. Rev. Lawn Chair Larry

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 13:59:07 UTC
From: Mark Conner
Topic: 4188 Message: 4188

http://www.foxnews.com/story/0,2933,352021,00.html

Brazil Priest Carried Aloft by Hundreds of Balloons Disappears
Monday, April 21, 2008

SAO PAULO, Brazil — A Roman Catholic priest who floated off under hundreds of helium party balloons was missing Monday off the southern coast of Brazil.

Rescuers in helicopters and small fishing boats were searching off the coast of Santa Catarina state, where pieces of balloons were found.

Rev. Adelir Antonio de Carli lifted off from the port city of Paranagua on Sunday afternoon, wearing a helmet, thermal suit and a parachute.

He was reported missing about eight hours later after losing contact with port authority officials, according to the treasurer of his Sao Cristovao parish, Denise Gallas.

Gallas said by telephone that the priest wanted to break a 19-hour record for the most hours flying with balloons to raise money for a spiritual rest-stop for truckers in Paranagua, Brazil's second-largest port for agricultural products.

Some American adventurers have used helium balloons to emulate Larry Walters — who in 1982 rose three miles above Los Angeles in a lawn chair lifted by balloons.

A video of Carli posted on the G1 Web site of Globo TV showed the smiling 41-year-old priest slipping into a flight suit, being strapped to a seat attached to a huge column green, red, white and yellow balloons, and soaring into the air to the cheers of a crowd.

According to Gallas, the priest soared to an altitude of 20,000 feet (6,000 meters) then descended to about 8,200 feet (2,500 meters) for his planned flight to the city of Dourados, 465 miles (750 kilometers) northwest of his parish.

But winds pushed him in another direction, and Carli was some 30 miles (50 kilometers) off the coast when he last contacted Paranagua's port authority, Gallas said.

Carli had a GPS device, a satellite phone, a buoyant chair and is an experienced skydiver, Gallas said.

"We are absolutely confident he will be found alive and well, floating somewhere in the ocean," she said.

"He knew what he was doing and was fully prepared for any kind of mishap."

4189. helium... hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 14:37:40 UTC
From: K. Mark Caviezel
Topic: 4189 Message: 4189

Posted by: "Mike Manes"
mrmanes@...
w5vsi2002 Mon Apr 21,
2008 10:35 pm (PDT) There's
a rather alarming piece on P.96 of the May 2008 QST
describing
the projected depletion of the National Helium Reserve
by 2016.

>>>>> I'm certain that helium will be commercially
available in 2016 and beyond. The US National Helium
Reserve is a cold war vestige, uneconomic, and being
shut down by order of Congress. From Wikipedia:

"By 1995, a billion cubic metres of the gas had been
collected and the reserve was US$1.4 billion in debt,
prompting the Congress of the United States in 1996 to
phase out the reserve.[1][2] The resulting "Helium
Privatization Act of 1996" (Public Law 104?273)
directed the United States Department of the Interior
to start liquidating the reserve by 2005.[3]"

And regardless of what happens with US domestic
production, Algeria has emerged as a helium supply
powerhouse in the last decade.

The price of helium is subject to manipulation by
suppliers- particularly those supplying small volume
users who usually have limited knowledge or
negotiational power in the marketplace. I have paid
as little as $35 and as much as $85 per T bottle of
helium in the last eight years. Another factor is
location- EOSS is well positioned, close to west
Kansas, the helium production center of the USA.

Use of hydrogen is not a bad idea - my local weather
station uses hydrogen for the 60 or so RAOB balloons
they put up every month. And they fill the balloon
indoors, in a purpose built facility.

Alarmingly though, in this insecure post 9-11 world,
users of hydrogen gas may face increasing scrutiny or
governmental roadblocks. At my day job, we recently
needed some gaseous hydrogen and the supplier sent TWO
men down to inspect our operation before sending out a
bottle.

Hydrogen is routinely used in Europe for manned 'gas ballooning', the extremely high cost alternative to the already expensive sport of hot air ballooning. Of the twenty or so gas balloons launched from the Albuquerque International Balloon Fiesta every year, about 1/3 of those are filled with hydrogen. I crewed for a hydrogen gas balloon at AIBF in 2005 and was really NOT impressed with the level of compliance with normal safety protocols.

Further reading:
Gone with the Wind: a manual for gas ballooning by Astrid Gerhardt
and
Flammable Gasses, by Frank Overs.

The first one is hard to get and rather expensive, the second one is available from the Balloon Federation of America if you call the main office.

best regards,

- Mark Caviezel

4190. BASE 22 - Launch site change for tomorrow's flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 14:49:49 UTC
From: BASE
Topic: 4190 Message: 4190

Dear all,

Although we seem to find trees in the middle of 400
acres of corn or beans, and on the one year
anniversary of cutting down two 90 foot trees to
recover our payloads on Earth Day last year, the
launch site for BASE 22 is being moved to Greencastle,
Indiana. Launch time remains 12:15 UTC tomorrow
(Wednesday the 23rd) and the predicted landing zone
will be within 20 miles of Hope, Indiana.

Thanks for your support,
Howard

_____
Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4191. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 23:12:49 UTC
From: Joe Mayenschein
Topic: 4184 Message: 4191

Of course you all by now know my thoughts about Hydrogen, (Near Space Sciences)

But you need to shop better or something. we get these size tanks for at the most 28 bucks, and depending on who is behind the desk that day as cheap as 14 bucks.

if they ever told us 40 bucks we'd walk away saying keep it.

Joe WB9SBD
----- Original Message -----
From: "Mark Conner" <mconner1@...>
To: <GPSL@yahoogroups.com>
Sent: Tuesday, April 22, 2008 8:46 AM
Subject: Re: [GPSL] Helium depletion

> If you're getting a T cylinder for $80, you're getting a pretty good deal.
> Full rate from Linweld is at least $100 - on my last trip there the guy
> cut it to $98 for me. I paid $105 at one point last summer.
>
> Hydrogen is $40 per T cylinder at Linweld now, but requires 1-2 week
> leadtime to ensure they have stock. The Omaha store normally carries T
> cylinders of helium all the time.
>
> NWS has used hydrogen for many years now for their upper-air observation
> program. The Topeka office has an upper-air observing station - maybe one
> of their meteorologists or technicians would be interested in giving a
> presentation on their safety procedures at GPSL 2008.
>
>>From reading their documentation online, they mainly ensure they're
>>grounded for static protection and well-ventilated. Since hydrogen rises,
>>any balloon rupture during the fill would quickly dissipate unlike other
>>gases which might stay on the ground and pool somewhere. Because their UA
>>observation building has a partially-enclosed space at the top, I believe
>>their procedure if they have a balloon rupture inside is to open the doors
>>and vacate the space for a period of time (30 minutes?).
>
> I would think that the risk, while not zero, is pretty low in most ARHAB
> operations. In Nebraska, we normally have a dampness problem early in the
> morning and static is pretty unlikely. We also fill outdoors most all of
> the time. I think if you use standard precautions about flames or other
> ignition sources, one can use hydrogen safely. To further minimize the
> risk, spectators should be kept some distance away.
>
> 73 de Mark N9XTN
>

> ----- Original Message -----
> From: Mike Manes <mrmanes@...>
> Date: Tuesday, April 22, 2008 12:35 am
> Subject: [GPSL] Helium depletion
> To: GPSL Balloon Reflector <GPSL@yahoogroups.com>, EOSS Launch Team
> Reflector <EOSS_LT@yahoogroups.com>
> Cc: Christopher J Koehler <Koehler@...>
>
>> Perhaps it's high time that ARHAB gets busy figuring out how to use
>> hydrogen as a fill gas safely? I noticed that the price of our He
>> T-bottles has soared from about $55 to nearly $80 in less than 2
>> years.Might be a swell topic for the GPSL 2008 conference.
>>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

4192. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-22 23:14:18 UTC
From: Joe Mayenschein
Topic: 4184 Message: 4192

Never ever have done any of the below, except for one thing, the filling adapter is 1' PVC.

Oh well?
NSS
----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Tuesday, April 22, 2008 8:56 AM
Subject: Re: [GPSL] Helium depletion

Tons of natural gas are transported daily without a problem.

Along with grounded hoses, be sure to use a metal filling pipe, you don't want to insert PVC plastic into a balloon neck and have dry hydrogen gas run through that.

And definitely fill outside.

Paul

4193. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 02:32:18 UTC
From: Mike Manes
Topic: 4184 Message: 4193

Thanks, Joe.

The QST article presented much of that same material. Kinda makes pix of the bursting balloon take on an whole new meaning, doesn't it?

Anyhow, all that's keeping many ARHAB groups, EOSS included, from adopting H2 as a fill gas is the safety question, not to mention the white-knuckle "Hindenberg" image. A lot of those concerns may be allayed, however, as we make our snails-pace progress towards a hydrogen economy. Sooner the better - Helium's getting pricey!

73 de Mike W5VSI

Joe Lynch wrote:
> Hi Mike, et al.,
>
> Here is a link to a Science Daily article that more fully explains the
> helium crisis:
> http://www.sciencedaily.com/releases/2008/01/080102093943.htm.
>
> 73,
>
>
> Joe Lynch, N6CL
> Editor, CQ VHF magazine
> VHF Editor, CQ magazine

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4194. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 02:54:18 UTC
From: Mike Manes
Topic: 4184 Message: 4194

How is H2 running thru a PVC fitting more risky than H2 running thru
a latex neck?

And how does one ground a hose?

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Tons of natural gas are transported daily without a problem.
>
> Along with grounded hoses, be sure to use a metal filling pipe, you
> don't want to insert PVC plastic into a balloon neck and have dry
> hydrogen gas run through that.
>
> And definitely fill outside.
>
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4195. Re: [GPSL] Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 13:28:06 UTC
From: PAUL VERHAGE
Topic: 4184 Message: 4195

The hose has a metal mesh in it from what I've seen at the NWS. Perhaps it's time I visit the local welding shop.

My impression (right or wrong) is that a thick PVC pipe will generate more static from a dry gas flowing through it than a latex balloon. If that's wrong, then PVC should be fine. I'll have to look at some old pictures, but I believe the NWS uses a metal filling tube.

Paul

>>> Mike Manes <mrmanes@...> 4/22/2008 8:54 PM >>>
How is H2 running thru a PVC fitting more risky than H2 running thru
a latex neck?

And how does one ground a hose?

73 de Mike W5VSI

PAUL VERHAGE wrote:
> Tons of natural gas are transported daily without a problem.
>
> Along with grounded hoses, be sure to use a metal filling pipe, you
> don't want to insert PVC plastic into a balloon neck and have dry
> hydrogen gas run through that.
>
> And definitely fill outside.
>
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

Yahoo! Groups Links

4196. NearSys Webpage

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 15:14:15 UTC
From: PAUL VERHAGE
Topic: 3457 Message: 4196

Troy, do you know what's going on with nearsys.org? The dot com works, but dot org can't be found

Thanks,
Paul

4198. RE: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 17:55:39 UTC
From: Fraser, Don
Topic: 4184 Message: 4198

Are there additional rules/restrictions with transporting hydrogen over transporting helium?

Don Fraser
HP SWD R&D, Colorado Lab
Desk Phone: 719.548.3272
Cell Phone: 719.930.7761

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of w0jrt
Sent: Wednesday, April 23, 2008 11:36 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: Helium depletion

Many amateur radio balloon groups have been safely using hydrogen (and saving money) for quite some time. One group that I fly with uses hydrogen exclusively. When dealing with high pressure tanks one needs to be safe regardless of the type of gas contained in it.

-Jerome, W0JRT

--- In GPSL@yahoogroups.com<mailto:GPSL%40yahoogroups.com>, Mike Manes <mrmanes@...> wrote:
> Perhaps it's high time that ARHAB gets busy figuring out how to use
> hydrogen as a fill gas safely? I noticed that the price of our He

4199. Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 18:11:40 UTC
From: Hank
Topic: 4184 Message: 4199

> One group that I fly with uses hydrogen exclusively.

Jerome,

Which one is that? I think we'll want to ask them just
how they do it.

Hank

4200. RE: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 18:21:43 UTC
From: PAUL VERHAGE
Topic: 4184 Message: 4200
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4201. Re: RE: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 19:01:36 UTC
From: Mark Conner
Topic: 4184 Message: 4201
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4202. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 20:14:03 UTC
From: Joe
Topic: 4184 Message: 4202

this august will be our 20th year, and 45 flights, all H2 and never ben
anything else.

joe NSS

w0jrt wrote:

>Many amateur radio balloon groups have been safely using hydrogen (and
>saving money) for quite some time. One group that I fly with uses
>hydrogen exclusively. When dealing with high pressure tanks one needs
>to be safe regardless of the type of gas contained in it.
>
>-Jerome, W0JRT
>
>--- In GPSL@yahoogroups.com, Mike Manes <mrmanes@...> wrote:
>
>
>>Perhaps it's high time that ARHAB gets busy figuring out how to use
>>hydrogen as a fill gas safely? I noticed that the price of our He
>>
>>
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>
>Yahoo! Groups Links
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4203. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 20:22:12 UTC
From: Joe
Topic: 4184 Message: 4203

Not here in wisconsin.

We've had the tanks in everything from pickups, to trunks, to the back
seat of my car.
joe NSS

Fraser, Don wrote:

> Are there additional rules/restrictions with transporting hydrogen
> over transporting helium?
>
> Don Fraser
> HP SWD R&D, Colorado Lab
> Desk Phone: 719.548.3272
> Cell Phone: 719.930.7761
>
>
>
> ---
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> w0jrt
> Sent: Wednesday, April 23, 2008 11:36 AM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Re: Helium depletion
>
> Many amateur radio balloon groups have been safely using hydrogen (and
> saving money) for quite some time. One group that I fly with uses
> hydrogen exclusively. When dealing with high pressure tanks one needs
> to be safe regardless of the type of gas contained in it.
>
> -Jerome, W0JRT
>
> --- In GPSL@yahoogroups.com <mailto:GPSL%40yahoogroups.com>, Mike
> Manes <mrmanes@...> wrote:
> > Perhaps it's high time that ARHAB gets busy figuring out how to use
> > hydrogen as a fill gas safely? I noticed that the price of our He
>
>

4204. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 20:26:01 UTC
From: Joe
Topic: 4184 Message: 4204

exactly, the missile effect will be far worse than the gas leaking out.

Mark Conner wrote:

> I would expect that a wreck bad enough to breach a pressurized steel
> cylinder would be bad enough to breach an unpressurized bone cranium. :-P
>
> My biggest concern is the cylinder beating the **** out of me well
> before enough force is involved to snap the valve off.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: PAUL VERHAGE <paul.verhage@...>
> Date: Wednesday, April 23, 2008 1:23 pm
> Subject: RE: [GPSL] Re: Helium depletion
> To: "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
>
> > My understanding is that if you get in a car wreck, you don't get
> > injured. You die.
> > ;)
> >
>
>

4205. BASE 22 - successfully completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 20:34:17 UTC
From: BASE
Topic: 4190 Message: 4205

Dear all,

BASE 22 was a smooth flight today. Launched 3 minutes
early at 12:12 UTC. Maximum altitude - 100,800 feet.
Average ascent rate - 850 feet/minute Landing about
six miles north of Hope, IN in Shelby County.

Additional details at:

http://www.depauw.edu/acad/physics/base/pages/base22.asp

The APRS radio kicked out at 58,000 feet (I still need
to work out air infiltration), but the 900 MHz spread
spectrum held steady throughout the flight. Watched
the last two-three minutes of descent from 500 yards
to the west of the landing point. Unfortunately, we
were on the wrong side of the property to get
permission to enter and attempt a catch, but that's
probably just as well for my health.

Thanks for your support. Hope see you at GPSL in
Liberty, MO.

Howard (WJC Class of '77)

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4206. EOSS Intervalometer Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 23:23:44 UTC
From: Pete Lilja
Topic: 4206 Message: 4206

I just got a Canon Powershot A570 and have loaded the script from the EOSS web page for the 30 second intervalometer. That's pretty cool stuff!
http://eoss.org/hardware/canon_a570is.htm

I have one question (for now). I have a 2 gig SD card and would like to take the photos at the 'Superfine' in the camera. However, when the script runs it resets all settings to factory and that includes the 'fine' settings for pix quality. Is there some way to overcome this?

Thanks.

Pete
KCØGPB

4207. Re: [GPSL] EOSS Intervalometer Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 23:34:15 UTC
From: Mark Conner
Topic: 4206 Message: 4207
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4208. Re: [GPSL] EOSS Intervalometer Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-23 23:42:17 UTC
From: Pete Lilja
Topic: 4206 Message: 4208

I guess that's my question, Mark. The full reset seems to occur when I run the script. I'm not very good at these things so maybe I'm missing the obvious.

Pete

----- Original Message -----
From: Mark Conner
To: GPSL@yahoogroups.com
Sent: Wednesday, April 23, 2008 6:34 PM
Subject: Re: [GPSL] EOSS Intervalometer Question

You might try avoiding the full reset. If you don't mind verifying settings prior to launch, just set your camera for ISO, focus, etc., manually and then start the script which only handles the picture-taking function.

Here is my script for the Canon A560 (not well documented). The 'set prop' commands are probably unique to each model. In these, I'm setting 'flash off', ISO 400, and some other things that don't seem to work and/or I can't recall now what they're supposed to do. I've got better docs somewhere else.

73 de Mark N9XTN

```
rem author Divalent, based on my "simple intervalometer" script previously posted
rem (which in turn was based on the ONMI intervalometer of Keoeeit)
rem Camera: S3, and other Digic II camera's
rem CHDK version: Fingalo's versions v106 or later
rem (must have get_tick_count and get/set prop)
rem
rem Note: this intervalometer only shoots in photo mode (not video or burst)
rem
@title MDCintvl
@param a Number of Shots
@default a 2000
@param e Interval (Mins)
@default e 0
@param f Interval (Secs)
@default f 6
@param g Interval (0.1 Secs)
@default g 0
if e<0 then e=0
if f<0 then f=0
if g<0 then g=0
rem TURN RAW OFF! (this is my preference. You can delete)
set_raw 0
rem Turn NR off. (I usually have this off, but just in case)
set_raw_nr 1
```

```
set_prop 5 1
set_prop 6 3
set_prop 8 1
set_prop 95 0
sleep 100
set_prop 143 2
set_prop 149 400
set_prop 218 4
set_prop 195 4
sleep 300
set_prop 195 0
sleep 300
rem ensure # of shots more than 1
if a<2 then a=2
rem d = user specified cycle time (in 0.1 sec units)
d=e*600+f*10+g
rem now convert d to msecs (same units as get_tick_count uses)
d=d*100
if d<1 then d=1
n=1
rem start with initial pause of 1 sec
sleep 1000
t=get_tick_count
shoot
sleep 100
print "Shot", n, "of", a
rem now we've done the first shot. do the rest
for n=2 to a
s=t+d
:wait_loop
t=get_tick_count
if t<s then goto "wait_loop"
shoot
sleep 100
print "Shot", n, "of", a
next n

end
```

On Wed, Apr 23, 2008 at 6:23 PM, Pete Lilja <plilja@...> wrote:

I just got a Canon Powershot A570 and have loaded the script from the EOSS web page for the 30 second intervalometer. That's pretty cool stuff!
http://eoss.org/hardware/canon_a570is.htm

I have one question (for now). I have a 2 gig SD card and would like to take the photos at the 'Superfine' in the camera. However, when the script runs it resets all settings to factory and that includes the 'fine' settings for pix quality. Is there some way to overcome this?

Thanks.

Pete
KCØGPB

4209. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 02:30:00 UTC
From: Mike Manes
Topic: 4184 Message: 4209

Ach du Leiber! Der Hindenberg Effekt!

Actually, hydrogen burns a lot more safely than carbon-based fuels in that there's very little IR radiation. In fact, the flame is nearly invisible - but it's VERY hot! Water, the combustion byproduct, is not anywhere close to a black body radiator. The blazing flames one sees in the movie of the Hindenberg disaster came not from the hydrogen but from the rubber gas bags and fabric skin covering the dirigible's framework.

Yes, H2 is certainly combustible (duh!), and in the presence of atmospheric oxygen, an otherwise innocuous static discharge spark can ignite the mixture. Anyone close to the balloon will likely be burned by IR radiation from the burning latex, but the hydrogen flame will ascend rather than dispersing laterally. So it may be a good idea for the balloonmeister and any balloon handlers during a windy fill to don protective garb. Of course, all means available to avoid ignition should also be in place, including means to prevent static accumulation.

I'm no expert on this, but these steps appear to be reasonable first steps. Those who know the ropes more thoroughly and who are experienced with hydrogen balloon filling are certainly invited to chime in.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> My understanding is that if you get in a car wreck, you don't get
> injured. You die.
> ;)
>
> Paul
>
> >>> "Fraser, Don" <don.fraser@...> 4/23/2008 11:55 AM >>>
> Are there additional rules/restrictions with transporting hydrogen over
> transporting helium?
>
> Don Fraser
> HP SWD R&D, Colorado Lab
> Desk Phone: 719.548.3272
> Cell Phone: 719.930.7761
>
>
>
> ---
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *w0jrt

> *Sent:* Wednesday, April 23, 2008 11:36 AM
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] Re: Helium depletion
>
> Many amateur radio balloon groups have been safely using hydrogen (and
> saving money) for quite some time. One group that I fly with uses
> hydrogen exclusively. When dealing with high pressure tanks one needs
> to be safe regardless of the type of gas contained in it.
>
> -Jerome, W0JRT
>
> --- In GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>, Mike Manes
> <mrmanes@...> wrote:
> > Perhaps it's high time that ARHAB gets busy figuring out how to use
> > hydrogen as a fill gas safely? I noticed that the price of our He
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4210. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 02:38:50 UTC
From: Mike Manes
Topic: 4184 Message: 4210

Yeah, even a He bottle with >2Kpsi inside can become a formidable
projectile. I saw a CO2 fire bottle on the flight line at VT-26 in
Beeville TX drive right thru a cinderblock wall at the Ops office
over 100 ft away.
73 de Mike W5VSI

Mark Conner wrote:
> I would expect that a wreck bad enough to breach a pressurized steel
> cylinder would be bad enough to breach an unpressurized bone cranium. :-P
>
> My biggest concern is the cylinder beating the **** out of me well
> before enough force is involved to snap the valve off.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: PAUL VERHAGE <paul.verhage@...>
> Date: Wednesday, April 23, 2008 1:23 pm
> Subject: RE: [GPSL] Re: Helium depletion
> To: "GPSL@yahoogroups.com" <GPSL@yahoogroups.com>
>
> > My understanding is that if you get in a car wreck, you don't get
> > injured. You die.
> > ;)
> >
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4211. Re: T-shirt problems?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 01:58:07 UTC
From: dlkaiser@kc.rr.com
Topic: 4173 Message: 4211

Tim - Just to let you know...I had to return mine and there are instructions under zazzle.com/support for how to handle returns. They make it very easy for you.

There is an email contact to obtain an RMA # for the return.

They send you that and a link to print the return shipping label.

I re-taped my original package, slapped the new shipping label on it and dropped it in the nearest UPS box.

They got the shirt back to me in record time, imho. Only problem is that it is an XL (i usually wear a L) and it is still too small.

We will probably want to look at alternate companies next year.

Hope everyone has better luck with this than i have had.

73's
W0DLK

4212. Re:Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 02:03:37 UTC
From: dlkaiser@kc.rr.com
Topic: 4184 Message: 4212

Mike - I agree it would be an awesome topic for GPSL in light of what has been happening with the prices. Would you be willing to lead a discussion on it?

We have been discussing tests with hydrogen a lot at our Near Space Ventures monthly meetings and it would be good to share everyones information and viewpoints on the topic.

It seems there have been some tests done that indicate that it is a much safer process than previously thought.

Thanks for bringing it up. I would love to hear the rest of the group's opinion on the validity of this discussion at GPSL 2008.

73's
Deb Kaiser, W0DLK
Near Space Ventures

4213. Re: [GPSL] Re:Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 02:11:26 UTC
From: Joe
Topic: 4184 Message: 4213

As I have been saying for almost 20 years.

it is in no way as dangerous as it's made out to be.

many times after a flight when we are all done with the flight and are sttting around having pizza and beers, probably 505 of the time we have taken the remainder of the tank and filled trash bags, tie a string that has been soaked in charcoal lighter fulel or even better diesekl fuel, that is about 20 feet long or so,

light it and let it go, and make maybe a 1/2 dozen "Himdenburgs"

It does NOT,, read that word NOT explode in any way, 99% of the time you dont even hear anything, you just see the trash bag burn. thats all.

In all honesty the first time we did it we all were extremely let dow as to the boringness of the massive explosion we wre waiting for.

Joe NSS

dlkaiser@... wrote:

>Mike - I agree it would be an awesome topic for GPSL in light of what
>has been happening with the prices. Would you be willing to lead a
>discussion on it?
>
>We have been discussing tests with hydrogen a lot at our Near Space
>Ventures monthly meetings and it would be good to share everyones
>information and viewpoints on the topic.
>
>It seems there have been some tests done that indicate that it is a
>much safer process than previously thought.
>
>Thanks for bringing it up. I would love to hear the rest of the
>group's opinion on the validity of this discussion at GPSL 2008.
>
>73's
>Deb Kaiser, W0DLK
>Near Space Ventures
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>Yahoo! Groups Links
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4214. RE: [GPSL] EOSS Intervalometer Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 05:40:05 UTC
From: Rick von Glahn
Topic: 4206 Message: 4214

Unfortunately, I☐ve passed the camera on to a packaging designer so can☐t do any testing to include a fix to set the camera in superfine mode. But, it☐s pretty easy stuff. You can control just about every button on the camera so a disp push a few down arrows presses and so on should return the camera to superfine mode. But, it is NECESSARY that you have the camera in hand so you can debug the script and thus, it☐ll be a while before I can look into this.

I built that script to reset the camera because I needed to absolutely sure of the state of every button and switch when the script executed. I will NOT be at any EOSS launch that flies the camera and so the idea was that anyone who could press the power on button would be trained and qualified to set up the camera for operation. If you are on scene at launch you might consider removing the reset sequence and doing that yourself. Frankly, I☐d recommend you figure out exactly how you want to fly the camera, sit down at the computer and write a script to do it all with one power on button press. It is actually quite fun to write the script, load it on the SD card stick it into the camera and execute it.

EOSS☐s launches are VERY hectic. More often than not there are two flights going up within 45 minutes of each other, each on a 3000 gram balloon. Folks are busily simulating the chicken sans head. So, why bother having to set something up in the hectic run up to launch when you can have it totally automated.

And, as an emergency backup, you might consider installing a much more vanilla intervalometer script in the script directory. If you decide at launch that you want to do something totally different as far as settings go, you could reset the camera, set all the options manually and then execute a script that only handles the sequence of taking photos. Our camera has that simple script on the SD card but I doubt it☐ll ever get used as whoever will be preparing the camera will likely only be instructed to turn it on and secure it inside it☐s payload container.

When I next see the camera I☐ll be changing the script to do exactly what you want. Can☐t believe I let the average jpeg compression slip in there. Minimal compression definitely should be implemented to attempt to resolve tiny details on the ground. So, my apologies for missing the obvious.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Pete Lilja
Sent: Wednesday, April 23, 2008 5:24 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] EOSS Intervalometer Question

I just got a Canon Powershot A570 and have loaded the script from the EOSS web page for the 30 second intervalometer. That's pretty cool stuff! http://eoss.org/hardware/canon_a570is.htm

I have one question (for now). I have a 2 gig SD card and would like to take the photos at the 'Superfine' in the camera. However, when the script runs it resets all settings to factory and that includes the 'fine' settings for pix quality. Is there some way to overcome this?

Thanks.

Pete

KCØGPB

4215. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 06:46:24 UTC
From: wb8elk@aol.com
Topic: 4184 Message: 4215

I saw the results of a gas cylinder in the chemistry lab that had fallen over and had the valve knocked off...it went through one cinder block wall and halfway through another one. A friend in Berkeley, CA would sometimes go down to the shipyards when he was in high school and put a gas cylinder he'd find after the ship welders had left for the day and put it in SF bay...he'd whack the valve off with a sledge hammer and the thing would streak across the bay like a torpedo...which it would've become had it hit any ships.

The moral is to always strap down your tank when the cap is off or lie it on the ground while using it.

As to hydrogen ignition....here's a good website showing the results of their attempts to successfully ignite a hydrogen weather balloon of about 4 feet in diameter....with some nice photos of the results.

http://www.allatoms.com/WeatherBalloonPage.htm
(http://www.allatoms.com/WeatherBalloonPage.htm)

- Bill WB8ELK

**********Need a new ride? Check out the largest site for U.S. used car listings at AOL Autos.
(http://autos.aol.com/used?NCID=aolcmp00300000002851)

4216. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 11:02:08 UTC
From: Joe
Topic: 4184 Message: 4216

Hi Bill, And all

This is EXACTLY what our Hindenburg Trash Bag after flight antics look like. a small ball of orange flame, but absolutely NO explosion! It rarely exceeds the size of the envelope. Just as seen in those photos.

Joe & NSS

wb8elk@... wrote:

> I saw the results of a gas cylinder in the chemistry lab that had
> fallen over and had the valve knocked off...it went through one cinder
> block wall and halfway through another one. A friend in Berkeley, CA
> would sometimes go down to the shipyards when he was in high
> school and put a gas cylinder he'd find after the ship welders had
> left for the day and put it in SF bay...he'd whack the valve off with
> a sledge hammer and the thing would streak across the bay like a
> torpedo...which it would've become had it hit any ships.
>
> The moral is to always strap down your tank when the cap is off or lie
> it on the ground while using it.
>
> As to hydrogen ignition....here's a good website showing the results
> of their attempts to successfully ignite a hydrogen weather balloon of
> about 4 feet in diameter....with some nice photos of the results.
>
> http://www.allatoms.com/WeatherBalloonPage.htm
>
> - Bill WB8ELK
>
>
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>
>
>
> ---
> Need a new ride? Check out the largest site for U.S. used car listings
> at AOL Autos <http://autos.aol.com/used?NCID=aolcmp00300000002851>.
>

4217. Re: [GPSL] EOSS Intervalometer Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 12:01:00 UTC
From: Pete Lilja
Topic: 4206 Message: 4217

Rick,

I surely didn't meant to fat-mouth your script. I think it's a wonderful addition to the info. out there for balloonists. I certainly understand why the reset.

I'll keep playing with it and try to figure out how to manually change that setting after starting the script. Yesterday afternoon was the first time I tried anything with this CHDK stuff and trying to wrap my head around all of it at once was, well, a bit much for this non-computer, non-tech guy. As far as me writing a script? - not likely. I have no skills, experience nor real desire. But I really do appreciate you making your labors available for the rest of us! Thanks!

Pete

----- Original Message -----
From: Rick von Glahn
To: GPSL@yahoogroups.com
Sent: Thursday, April 24, 2008 12:40 AM
Subject: RE: [GPSL] EOSS Intervalometer Question

Unfortunately, I've passed the camera on to a packaging designer so can't do any testing to include a fix to set the camera in superfine mode. But, it's pretty easy stuff. You can control just about every button on the camera so a disp push a few down arrows presses and so on should return the camera to superfine mode. But, it is NECESSARY that you have the camera in hand so you can debug the script and thus, it'll be a while before I can look into this.

I built that script to reset the camera because I needed to absolutely sure of the state of every button and switch when the script executed. I will NOT be at any EOSS launch that flies the camera and so the idea was that anyone who could press the power on button would be trained and qualified to set up the camera for operation. If you are on scene at launch you might consider removing the reset sequence and doing that yourself. Frankly, I'd recommend you figure out exactly how you want to fly the camera, sit down at the computer and write a script to do it all with one power on button press. It is actually quite fun to write the script, load it on the SD card stick it into the camera and execute it.

EOSS's launches are VERY hectic. More often than not there are two flights going up within 45 minutes of each other, each on a 3000 gram balloon. Folks are busily simulating the chicken sans head. So, why bother having to set something up in the hectic run up to launch when you can have it totally automated.

And, as an emergency backup, you might consider installing a much more vanilla intervalometer script in the script directory. If you decide at launch that you want to do something totally different as far as settings go, you could reset the camera, set all the options manually and then execute a script that only handles the sequence of taking photos. Our camera has that simple script on the SD card but I doubt it'll ever get used as whoever will be preparing the camera will likely only be instructed to turn it on and secure it

inside it's payload container.

When I next see the camera I'll be changing the script to do exactly what you want. Can't believe I let the average jpeg compression slip in there. Minimal compression definitely should be implemented to attempt to resolve tiny details on the ground. So, my apologies for missing the obvious.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Pete Lilja
Sent: Wednesday, April 23, 2008 5:24 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] EOSS Intervalometer Question

I just got a Canon Powershot A570 and have loaded the script from the EOSS web page for the 30 second intervalometer. That's pretty cool stuff!
http://eoss.org/hardware/canon_a570is.htm

I have one question (for now). I have a 2 gig SD card and would like to take the photos at the 'Superfine' in the camera. However, when the script runs it resets all settings to factory and that includes the 'fine' settings for pix quality. Is there some way to overcome this?

Thanks.

Pete

KCØGPB

4220. Re: [GPSL] Re:Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 14:04:19 UTC
From: Joe
Topic: 4184 Message: 4220

It seems soo funny after in 5 months it will be 20 years of preaching these facts, to absolutely deaf ears and EVERYONE constantly preaching the "Hindenburg" effect. It got to the point, that I just gave up, and thought to myself, "Whatever dudes, go ahead and spend your 80+ bucks on a tank and I'll just go down the road with my 14 buck tank".

Last comment on the Hindenburg thing anyway, Hello it burned, it did not explode. and 99% of the BURN was NOT the hydrogen but the containment bags, and Mostly the totally stupid covering. Quote,

What we now know.

As we all know the wide spread belief/myth is that hydrogen is to blame for the 37 dead, but there is new evidence to discredit that theory. A NASA scientist at Cape Canaveral has discovered the real cause. "Neither the hydrogen in the hull nor a bomb was to blame, but a special fabric for the outer skin that, when ignited, burns like dry leaves."

Bain's suspicions of the Zeppelin's fabric covering were raised when he learned that a cellulose nitrate (gun powder) dope with powdered aluminum (fuel) was used on the Hindenburg. He was able to obtain a 60 year old piece of the fabric used to test his hypothesis. Furthermore, a hydrogen flame is almost invisible in day light. We know from many eye witness accounts as well as actual photographs, that the flames were red and orange. This supports his theory that hydrogen was not the source of the flames.

He was able to prove his theory into fact, and the plaque in the Kennedy Space Center has been changed reading a more accurate portrayal of the history of the Hindenburg. Scientists now agree that the outer covering was ignited by static electricity. It would appear that the Germans agree with them in their claim. German electrical engineer, Otto Beyersdorff, on 28 June 1937 wrote "The actual cause of the fire was the extreme easy flammability of the covering material brought about by discharges of an electrostatic nature." Furthermore in California in 1935, a helium (non combustible gas) filled airship went up in flames as well.

Interesting huh?

Joe & NSS

w0jrt wrote:

>Before we ever attempted to use H2 as our lifting gas we did similar
>experiments as Joe and his group, and I can confirm everything he's
>said through our independent experiments. It's very much like what

>you see on that web page that someone else posted. There were a few
>people in our group that were very apprehensive about it but after
>seeing the effects, and in particular seeing how difficult it was to
>actually get any kind of ignition, that apprehension was gone.
>
>In our experiments we filled a variety of trash bags and small
>balloons with H2 and in a few cases a mixture of H2 and air, and
>attempting to light it through various means -- most often by remote
>ignition of an E-match either taped to the exterior of the envelope or
>even contained within the envelope. The thing is, you just don't have
>the right mixture of fuel and oxidizer to cause an explosion. You
>might get a bit of a pop if you mix in some O2 or (in our experiment)
>air. But typically, if we got it to ignite at all (some time our
>E-match would just burn a small hole in the envelope and the gas would
>escape), the balloon envelope would burn followed by the ball of H2
>which would soon shrink to nothing.
>
>Like Joe said, it's really a bit disappointing, especially for the
>closet pyros that may be lurking in the group.
>
>-Jerome, W0JRT
>
>--- In GPSL@yahoogroups.com, Joe <nss@...> wrote:
>
>
>>As I have been saying for almost 20 years.
>>
>>it is in no way as dangerous as it's made out to be.
>>
>>...
>>
>>It does NOT,, read that word NOT explode in any way, 99% of the time
>>you dont even hear anything, you just see the trash bag burn.
>>
>>
>thats all.
>
>
>>In all honesty the first time we did it we all were extremely let dow
>>as to the boringness of the massive explosion we wre waiting for.
>>
>>Joe NSS
>>
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>Yahoo! Groups Links

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4221. Re: [GPSL] Re:Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 15:10:56 UTC
From: Mark Garrett
Topic: 4184 Message: 4221

Joe, were you in Phoenix last week?

Mark, KA9SZX

----- Original Message ----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, April 23, 2008 9:11:26 PM
Subject: Re: [GPSL] Re:Helium depletion

As I have been saying for almost 20 years.

it is in no way as dangerous as it's made out to be.

many times after a flight when we are all done with the flight and are
sttting around having pizza and beers, probably 505 of the time we have
taken the remainder of the tank and filled trash bags, tie a string
that has been soaked in charcoal lighter fulel or even better diesekl
fuel, that is about 20 feet long or so,

light it and let it go, and make maybe a 1/2 dozen "Himdenburgs"

It does NOT,, read that word NOT explode in any way, 99% of the time
you dont even hear anything, you just see the trash bag burn. thats all.

In all honesty the first time we did it we all were extremely let dow
as to the boringness of the massive explosion we wre waiting for.

Joe NSS

dlkaiser@kc. rr.com wrote:

>Mike - I agree it would be an awesome topic for GPSL in light of what
>has been happening with the prices. Would you be willing to lead a
>discussion on it?
>
>We have been discussing tests with hydrogen a lot at our Near Space
>Ventures monthly meetings and it would be good to share everyones
>information and viewpoints on the topic.
>
>It seems there have been some tests done that indicate that it is a
>much safer process than previously thought.
>
>Thanks for bringing it up. I would love to hear the rest of the
>group's opinion on the validity of this discussion at GPSL 2008.
>
>73's
>Deb Kaiser, W0DLK

>Near Space Ventures
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http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4222. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 18:02:47 UTC
From: Joe
Topic: 4184 Message: 4222

More thoughts, and or comments, (sorry guys) just adding our
experiences. comments below,,

w0jrt wrote:

>--- In GPSL@yahoogroups.com, "Hank" <n1ltv@...> wrote:
>
>
>>>One group that I fly with uses hydrogen exclusively.
>>>
>>>
>>Which one is that? I think we'll want to ask them just
>>how they do it.
>>
>>Hank
>>
>>
>
>It's one of those low-profile just-for-fun groups that doesn't have a
>web site and normally doesn't publicize its flights.
>
I don't know who this group is, but as far as I know it's not us, even
though the description fits fairly well.

> I'll try to
>summarize our system, though. It's not that much different than using
>Helium. We use a metal braided hose in contact with the ground so
>everything (tank, regulator, hose, etc.) is at the same potential,
>discharge any static electricity before filling,
>
Even if you do have all these components electrically connected and
grounded, via the grounded tank, wired hose etc. what do you do about
the balloon itself? this is where all the gas is yes? yet you can't
ground a latex or PE balloon,, BOTH are excellent insulators. so this
grounding of everything what are we thinking we are accomplishing, where
the main part we are worried about exploding is not actually grounded.

> and launch in a clean
>area away from other people, buildings, and vehicles.
>
99.9% of our balloon fillings are done indoors in closed draft free areas.

>
>
We have actually gone the opposite direction. for reasons that I will
explain shortly. And the reasons explained herein.

Our filling system is totally floating (electrically) from ground.
NOTHING is grounded. and we do this on purpose.
Why, as this seems to go totally in the wrong direction of common thought. Part of our thinking actually came from two places.

1- Was from a local radio station here. There is a local FM broadcast station here, and, they were every year having horrible problems with lightning.
what is lightning? It's just a strong bit of electricity right?, That wants to equalize, between the two potentials, and it looks for the path of least resistance right? We all know this. This station over the years has spent hundreds of thousands of dollars on state of the art lightning protection equipment. As well as countless dollars replacing damaged equipment. No matter what they did they kept getting nailed. They even got to the point where they had actually more invested in the stations lightning protection system than the transmitter itself! and every year they'd get nailed. till oh,, probably , geez i can't remember when, but after they got nailed by a real massive strike. they were at the point of shutting the station down, and give up.

One rouge engineer (old retired guy) asked them if they were willing to try one radical solution. For one last hurrah so to speak, and in the industry a extreme radical thought that goes AGAINST the whole community and standards practice. The owners said what's the idea, and this one old guy that was NOT even a part of the station at all, (the owner actually met him at a local bar!) told him some basic static electrical theory, and of course this did not please the owner he's heard this stuff from all of the "Professionals" already a hundred times. But then this old fart told him, what's happening, the spark is trying to find the path of least resistance to equalize the voltages right? he said yeah (again heard this a thousand times) So the old guy says take the path of least resistance away. HUH? He told him isolate EVERYTHING! totally float EVERYTHING from ground. have nothing grounded in ANY way, EVERYTHING no matter how small, but totally float everything! He explained in doing this the "Path of least resistance" is no longer there and the lightning will look for a better path to ground. since this path is now totally invisible to the lightning, It just plain does not exist. In a strange way it made sense. They have tried every other thing, and they spent several months setting up the station to "Float" Guess what the station is still on the air, and hasn't had a single hit in over ten years now. Where before, they were getting hit at least once a month. if not more.

2- Where i work, they had a huge static electricity problem. We Make large polystyrene sheets for the advertising industry.
Polystyrene in itself is a pretty good insulator, but when you slide one 4 foot by 8 foot sheet from the machine producing the sheets onto the stack, it generates a incredible amount of static. yes the current is like zero, but we have measured the static potential at times into the mega volt ranges. I have seen lightning bolts come from a stack jump to a person walking by over 4 feet away, and just lay them out on the floor!

This company also tried every grounding thought and static control company there is. but with little success. Yes it did help don't get me wrong, but the problem was still there. for a major part of the problem, how do you ground a insulator? Poly styrene is a pretty good insulator.

POLYSTYRENE: A insulator with superb dielectric properties. Polystyrene capacitors exhibit little dielectric adsorption and virtually no leakage. Liquid polystyrene or Q-dope is a low-loss coil dope used to secure windings and other components in RF circuits.

Till again they learned what happened at that radio station, and decided to try to "Float" the whole area, so the static buildup can not find a way to ground. Guess what it worked! there was never a spark to be seen or felt from any of the workers from that day on.

So here at NSS when we set up our inflation area, we isolate the whole system,

first down is a old heavy blanket, just to keep any potentially pointy thing from happening, then we lay a plastic tarp on the blanket, on this is laid a thin PE sheet similar to a drop cloth,
then the tank is laid on this along with it's connected regulator,. the hose from the regulator is a 1/4" id, latex tube, that connects to a 1.25" od PVC coupler, which the balloon is attached with a stainless steel hose clamp.

so the whole system is insulated from the ground many ways. 45 official flights, and probably as many again non official, using this method, in all sorts of weather from 100 deg with 100% humidity, wi cold 20 below and 5% humidity days, NO PROBLEMS and no static potential whatsoever, we have tested it with the e static potential equipment from work. think,, static wants to go to ground, don't give it a route, and you have no path, no path,, NO SPARK> simple

Joe & NSS

>We also have a very small fill tube with a check valve and
>quick-connect adapter that is attached to the balloon. This means
>once the envelope is filled you attach the package (using the same
>type of quick-connect used by the fill mechanism) and release. It
>makes for a very quick, smooth, and organized launch. There's none of
> that typical fold this over, twist this, tie that off,
>oops-someone-go-get-the-tape, chaos that you see at some launches. So
>far the only down side is that if we have to cut away the balloon we
>will lose the check valve and quick-connect adapter. So far we
>haven't had to do that.
>
>For the record, I misspoke when I said hydrogen was used "exclusively"
>-- at past GPSL's we've used helium provided by the hosts to avoid
>ruffling feathers of those fearful of hydrogen.
>
>-Jerome, W0JRT

>
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>------------------------------------
>
>Yahoo! Groups Links
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>

4223. NearSys Updates

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 18:53:51 UTC
From: PAUL VERHAGE
Topic: 4223 Message: 4223

I've started ripping video from DVDs and have an example on my website, NearSys.com under Other Multimedia. I think I have everything down (except for Vegas) to begin working on a movie I've wanted to do called Near Space Nation. The two movie clips are some examples of what I'd like to add to the movie.

Now to find information on using copyrighted music before they send me to jail.

Paul

4224. RE: [GPSL] EOSS Intervalometer Question

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-24 19:28:41 UTC
From: Rick von Glahn
Topic: 4206 Message: 4224

No problem at all, I took your comments in the way you meant and certainly took no offense. Just thought I'd "defend" my use of the reset command. :-)

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Pete Lilja
Sent: Thursday, April 24, 2008 6:01 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] EOSS Intervalometer Question

Rick,

I surely didn't meant to fat-mouth your script. I think it's a wonderful addition to the info. out there for balloonists. I certainly understand why the reset.

.snip.

4225. Re: [GPSL] Re: Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-25 19:22:26 UTC
From: Mike Manes
Topic: 4184 Message: 4225

Thanks Mike!

Seven T-bottles of He just about does the job for a two-fer 3000 gm launch, and about all that we can fit in a large pickup. For smaller vehicles, we borrow a trailer to carry the gas. Since H2 yields a little more lift, then 7 T's should give us a bit more margin.

BTW, Don WA9WWS has volunteered to gather all the pertinent pointers related to EOSS's switching over to H2, so be sure to keep him in the loop if you have any further excellent input such as this. He's cc'ed above.

Hope you've been able to get out on a few flights there in 4-land - there are gobs of new groups coming aboard - consuming what little He is left :=}.

And EOSS-127 ended up with a much smaller student payload weight than we'd anticipated - only 12.3 lb vs. the 20 lb typical for that type of flight. So it just took a bit more than 2 T's to get a good fill.

73 de Mike W5VSI

kj0r@... wrote:
> Hi Mike and all,
>
> Placcarding: DoT says that 1000lb of gas plus cylinder combination
> weight requires placcarding. When the load is flammable then it musy be
> placcarded for it. I believe one flam. placcard is all that is needed.
> The tare weight for a size 300 (T) cylinder is approximately 140 pounds.
> You are over with eight and cutting it close with seven.
>
> Congratulations ! 103k+ ! Nebraska again.
>
> Mike
> kj0r
>
>
> -------------- Original message --------------
> From: Mike Manes <mrmanes@...>
>
> > Hi Don,
> >
> > Hey, great! Thanks for taking that on.
> >
> > Now, I'm still waffling about making GPSL this year, what with the
> > price of gas and the $100/nite accommodations. And I've got a

> fistful
> > of work transitioning from the now-extinct surplus LiSO2 cells
> for all
> > our payloads to Li-ion rechargeables. So far, only the crossband has
> > been done.
> >
> > Re Hazmat placarding, I think those may be Federal DoT rules
> rather than
> > Colorado regs. So might look at www.dot.gov (?). And Mike Herod
> KJ0R,
> > who works for AirGas, may also be a good resource; check the MSDS
> page.
> >
> > 73 de Mike W5VSI
> >
> > Fraser, Don wrote:
> > > Sure, and since it looks like I might make GPSL this year , I
> might even offer
> > to help present.
> > >
> > > Don Fraser
> > > HP SWD R&D, Colorado Lab
> > > Desk Phone: 719.548.3272
> > > Cell Phone: 719.930.7761
> > >
> > > -----Original Message-----
> > > From: Mike Manes [mailto:mrmanes@...]
> > > Sent: Wednesday, April 23, 2008 8:54 PM
> > > To: Fraser, Don
> > > Subject: Re: [GPSL] Re: Helium depletion
> > >
> > > Hi Don,
> > >
> > > I don't have a clue. This is why I suggested that we get
> cracking on learning
> > all the in's and out's of using H2 for a fill gas. Perhaps
> www.airgas.com has
> > some guidance?
> > >
> > > Would you care to step up to the plate and grub up some of
> those answers?
> > >
> > > 73 de Mike W5VSI
> > >
> > > Fraser, Don wrote:
> > >> hi Mike;
> > >>
> > >> In Colorado do we have to p lacard the H2 transport vehicle as
> carrying
> > >> H2? Or is there a minimum amount that does not require the

> placards?
> > >>
> > >> Also I seem to recall seeing some research that says the
> Hindenburg
> > >> was accidentally covered in low grade thermite -- a
> combination of
> > >> paint on the aluminum skin or something like that. So once the
> fire
> > >> started it burned out and fast..
> > >>
> > >> I don't think we want to cover our latex balloons.. later.
> > >>
> > >>
> > >> Don Fraser
> > >> HP SWD R&D, Colorado Lab
> > >> Desk Phone: 719.548.3272
> > >> Cell Phone: 719.930.7761
> > >>
> > >>
> > >>
> > >>
> --
> > >> --
> > >> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On
> B ehalf
> > >> Of *Mike Manes
> > >> *Sent:* Wednesday, April 23, 2008 8:30 PM
> > >> *To:* GPSL@yahoogroups.com
> > >> *Subject:* Re: [GPSL] Re: Helium depletion
> > >>
> > >> Ach du Leiber! Der Hindenberg Effekt!
> > >>
> > >> Actually, hydrogen burns a lot more safely than carbon-based
> fuels in
> > >> that there's very little IR radiation. In fact, the flame is
> nearly
> > >> invisible - but it's VERY hot! Water, the combustion
> byproduct, is not
> > >> anywhere close to a black body radiator. The blazing flames
> one sees
> > >> in the movie of the Hindenberg disaster came not from the
> hydrogen but
> > >> from the rubber gas bags and fabric skin covering the dirigible's
> > >> framework.
> > >>
> > >> Yes, H2 is certainly combustible (duh!), and in the presence of
> > >> atmospheric oxygen, an otherw ise innocuous static discharge
> spark can
> > >> ignite the mixture. Anyone close to the balloon will likely be
> burned

> > >> by IR radiation from the burning latex, but the hydrogen flame
> will
> > >> ascend rather than dispersing laterally. So it may be a good
> idea for
> > >> the balloonmeister and any balloon handlers during a windy
> fill to don
> > >> protective garb. Of course, all means available to avoid ignition
> > >> should also be in place, including means to prevent static
> accumulation.
> > >>
> > >> I'm no expert on this, but these steps appear to be reasonable
> first
> > >> steps. Those who know the ropes more thoroughly and who are
> > >> experienced with hydrogen balloon filling are certainly
> invited to chime in.
> > >>
> > >> 73 de Mike W5VSI
> > >>
> > >> PAUL VERHAGE wrote:
> > >> > My understanding is that if you get in a car wreck, you
> don't get
> > >>> injured. You die.
> > >> > ;)
> > >> >
> > >> > Paul
> > >> >
> > >> > >>> "Fraser, Don" >
> > >> 4/23/2008 11:55 AM >>>
> > >> > Are there additional rules/restrictions with transporting
> hydrogen
> > >> over > transporting helium?
> > >> >
> > >> > Don Fraser
> > >> > HP SWD R&D, Colorado Lab
> > >> > Desk Phone: 719.548.3272
> > >> > Cell Phone: 719.930.7761
> > >> >
> > >> >
> > >> >
> > >> > ----------
> > >> > *From:* GPSL@yahoogroups.com
> > >> [mailto:GPSL@yahoogroups.com] *On
> > >> Behalf Of > *w0jrt > *Sent:* Wednesday, April 23, 2008 11:36 AM >
> > >> *To:* GPSL@yahoogroups.com >
> > >> *Subject:* [GPSL] Re: Helium depletion > > Many amateur radio
> > >> balloon groups have been safely using hydrogen (and > saving
> money)
> > >> for quite some time. One group that I fly with uses > hydrogen
> > >> exclusively. When dealing with high pressure tanks one needs >
> to be

> > >> safe regardless of the type of gas contained in it.
> > >> >
> > >> > -Jerome, W0JRT
> > >> >
> > >> > --- In GPSL@yahoogroups.com
> > >> >, Mike
> > >> Manes > wrote:
> > >> > > Perhaps it's high time that ARHAB gets busy figuring out
> how to *> >> use > > hydrogen as a fill gas safely? I noticed that
> the price of
> > >> our He >
> > >>
> > >> --
> > >> Mike Manes mrmanes@... Tel:
> > >> 303-979-4899 "Things should be made as simple as possible, but
> not more so."
> > >> A. Einstein
> > >>
> > >>
> > >
> > > --
> > > Mike Manes mrmanes@... Tel: 303-979-4899
> > > "Things should be made as simple as possible, but not more so."
> > > A. Einstein
> > >
> >
> > --
> > Mike Manes mrmanes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein *

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4226. WB8ELK balloon will launch around 1:45 pm CDT - use DTRC for RTTY reception

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-26 17:57:59 UTC
From: wb8elk@aol.com
Topic: 4226 Message: 4226

Launch will occur after the ozonesonde....probably between 1:45 and 2:00 pm CDT.

10.142 center carrier...best RTTY/Hellscreiber receive is 10.140 USB for 2000 hz tones.

This could be a long duration latex flight if it achieves float.

If you have the UTARC's DTRC program....go ahead and use it and we can see each other's receive on RTTY.

http://dtrc.utarc.org/dtrcpeek.php (http://dtrc.utarc.org/dtrcpeek.php)

Also...the SNOX chatroom will be monitored during the flight.

http://dtrc.utarc.org/chat.html (http://dtrc.utarc.org/chat.html)

- Bill WB8ELK

**********Need a new ride? Check out the largest site for U.S. used car listings at AOL Autos.
(http://autos.aol.com/used?NCID=aolcmp00300000002851)

4227. WB8ELK balloon still flying - Hellscreiber mode only

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-26 23:01:24 UTC
From: wb8elk@aol.com
Topic: 4227 Message: 4227

Still flying near Chattanooga, TN at 92,000 feet...will be up in the air for awhile longer..

RTTY is not working...just steady carrier...however, Feld-Hell is working fine.

10.140 MHz USB.

- Bill WB8ELk

**********Need a new ride? Check out the largest site for U.S. used car listings at AOL Autos.
(http://autos.aol.com/used?NCID=aolcmp00300000002851)

4228. WB8ELK is floating at 105k feet - may be up all night long

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-27 02:05:37 UTC
From: wb8elk@aol.com
Topic: 4228 Message: 4228

Live chat about the ongoing long duration flight:

http://dtrc.utarc.org/chat.html (http://dtrc.utarc.org/chat.html)

Update: 0157z:

Been floating around 105,000 feet for a couple of hours now....the RTTY portion is not working for some reason but the Feld-Hellscreiber is working great.

Maximum altitude was 32882 meters....since then has been hovering around 32000m (105,000 feet or so) for the last few hours.

This was a test to intentionally vent helium with a 1/16" hole in a PVC pipe fitted into the nozzle....it seemed to have worked great.

It may be up all night and possibly tomorrow as well.....check it out at:

Best tuned in at 10.141 MHz USB (will put it around 1 khz tones)....it is shifting around up and down about 500hz however...sounds like a weird slow MFSK mode followed by the on/off keying of Feld-Hellscreiber....once per minute.

Some downloadable programs to receive Hell: MixW (free limited time eval)...MultiPSK....and a dedicated Hell program from IZ8BLY:

http://xoomer.alice.it/aporcino/Hell/index.htm (http://xoomer.alice.it/aporcino/Hell/index.htm)

Should be up for the night hovering around Chattanooga, TN at the moment at around 105,000 feet....not traveling very fast...only a couple of knots ground speed.

- Bill WB8ELK

**********Need a new ride? Check out the largest site for U.S. used car listings at AOL Autos.
(http://autos.aol.com/used?NCID=aolcmp00300000002851)

4229. Re: [GPSL] WB8ELK balloon still flying - Hellscreiber mode only

Yahoo group: GPSL (2002 — 2008)
Date: 2008-04-28 18:23:47 UTC
From: David Hoffman
Topic: 4227 Message: 4229

What was the outcome on this flight?

David Hoffman - KE4FGW

> Still flying near Chattanooga, TN at 92,000 feet...will be up in the air
> for
> awhile longer..
>
> RTTY is not working...just steady carrier...however, Feld-Hell is working
> fine.
>
> 10.140 MHz USB.
>
> - Bill WB8ELk
>
>
>
>
>
> **********Need a new ride? Check out the largest site for U.S. used
> car
> listings at AOL Autos.
> (http://autos.aol.com/used?NCID=aolcmp00300000002851)
>

4230. Re: [GPSL] Re:Helium depletion

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-01 05:37:32 UTC
From: Mike Manes
Topic: 4184 Message: 4230

Hi Deb,

Not sure I'm gonna make GPSL this year. But one of our long-time members, Don Fraser WA9WWS out of Colorado Springs CO is gathering pertinent info for EOSS, and he plans to make GPSL for the first time this year. He's also agreed to talk on what he's learned and perhaps to host a forum on the subject. Contact Don directly - he's cc'ed above.

73 de Mike W5VSI

dlkaiser@... wrote:
> Mike - I agree it would be an awesome topic for GPSL in light of what
> has been happening with the prices. Would you be willing to lead a
> discussion on it?
>
> We have been discussing tests with hydrogen a lot at our Near Space
> Ventures monthly meetings and it would be good to share everyones
> information and viewpoints on the topic.
>
> It seems there have been some tests done that indicate that it is a
> much safer process than previously thought.
>
> Thanks for bringing it up. I would love to hear the rest of the
> group's opinion on the validity of this discussion at GPSL 2008.
>
> 73's
> Deb Kaiser, W0DLK
> Near Space Ventures
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4231. Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-04 20:10:15 UTC
From: dlkaiser23
Topic: 4231 Message: 4231

We are attempting to get an idea of how many bottles of helium are needed for GPSL.

The situation is this:
We don't know what the price may be, but think it will be somewhere around twice the cost it has been in the past.
We are not sure we can find a source for as much as we will need, but we are in the process of researching this and have a new lead to follow up on.
We need to know how many bottles you would like to have available for your use.

Please respond to this email with your name, your group and the number of bottles desired. I
will track this for Troy who is trying to locate a source for us.

Thank you.

Deb Kaiser

4232. Re: [GPSL] Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-04 23:16:15 UTC
From: wb8elk@aol.com
Topic: 4231 Message: 4232

- WB8ELK
- 1 tank of helium

- Bill WB8ELK

**********Wondering what's for Dinner Tonight? Get new twists on family favorites at AOL Food.
(http://food.aol.com/dinner-tonight?NCID=aolfod00030000000001)

4233. Re: [GPSL] Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-04 23:41:50 UTC
From: BASE
Topic: 4231 Message: 4233

Dear Deb,

BASE - DePauw would like to have access to two tanks,
but probably won't use much, if any of the second. In
a pinch, we could reduce payload.

Thanks,
Howard

P.S. - You might check with the folks at Jewell. If
someone in Chem, Physics, or Bio, regularly uses
helium, they might be getting a very good price and
could up their order.

--- dlkaiser23 <dlkaiser@...> wrote:

> We are attempting to get an idea of how many bottles
> of helium are needed for GPSL.
>
> The situation is this:
> We don't know what the price may be, but think
> it will be somewhere around twice the
> cost it has been in the past.
> We are not sure we can find a source for as
> much as we will need, but we are in the
> process of researching this and have a new lead to
> follow up on.
> We need to know how many bottles you would
> like to have available for your use.
>
> Please respond to this email with your name, your
> group and the number of bottles desired. I
> will track this for Troy who is trying to locate a
> source for us.
>
> Thank you.
>
> Deb Kaiser
>
>

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4234. RE: [GPSL] Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-05 11:57:34 UTC
From: Patterson, David
Topic: 4231 Message: 4234

Taylor University's HARP team would like 2 tanks this year.

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of dlkaiser23
Sent: Sun 5/4/2008 4:10 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Helium Order Estimate

We are attempting to get an idea of how many bottles of helium are needed for GPSL.

The situation is this:
We don't know what the price may be, but think it will be somewhere around twice the cost it has been in the past.
We are not sure we can find a source for as much as we will need, but we are in the process of researching this and have a new lead to follow up on.
We need to know how many bottles you would like to have available for your use.

Please respond to this email with your name, your group and the number of bottles desired. I
will track this for Troy who is trying to locate a source for us.

Thank you.

Deb Kaiser

4235. Re: [GPSL] Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-05 13:47:20 UTC
From: PAUL VERHAGE
Topic: 4231 Message: 4235

I'll launch one balloons, so will need a large tank.

Paul

>>> "dlkaiser23" <dlkaiser@...> 5/4/2008 2:10 PM >>>
We are attempting to get an idea of how many bottles of helium are needed for GPSL.

The situation is this:
We don't know what the price may be, but think it will be somewhere around twice the cost it has been in the past.
We are not sure we can find a source for as much as we will need, but we are in the process of researching this and have a new lead to follow up on.
We need to know how many bottles you would like to have available for your use.

Please respond to this email with your name, your group and the number of bottles desired. I
will track this for Troy who is trying to locate a source for us.

Thank you.

Deb Kaiser

Yahoo! Groups Links

4236. Re: helium order

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-05 14:15:25 UTC
From: Jerome Doerrie
Topic: 4236 Message: 4236

Reach For Space
1 tank
Jerome Doerrie, K5IS

_____
Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4237. Re: UAVs

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-05 22:18:36 UTC
From: Mike Manes
Topic: 4237 Message: 4237

Hi Bill,

Here's a pretty good source for some of your questions:

www.faa.gov/aircraft/air_cert/design_approvals/uas/reg/media/uas_guidance08-01.pdf

You may have to paste that URL together.

The short answer appears in that document under 3.0 Definitions for UAS.
It's gotta have 3-axis control, so MAYBE a steerable 'chute is exempt. I'd
sure think so, since it's no more a threat to civil aviation than is a
conventional one. But then, I'm not the .gov.

Bill Boyd wrote:
> When does a balloon payload being returned to earth via some means to
> retard its descent become a UAV? Under a parachute? Riding a steerable
> glider with GPS-coupled autopilot? Under a steerable ram-air canopy
> with GPS guidance? Is there a critical glide angle at which the payload
> becomes a UAV? I have a hard time believing that a non-self-propelled
> lifting body would be regulated as a UAV, or fall under part 101, but my
> familiarity with the FAA should make this less of a surprise if true.
>
> Just a sincere question from a curious lurker and new-comer to the group.
>
> -Bill Boyd
>
> On Mon, May 5, 2008 at 12:18 AM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Yeah, the handwringers at the FAA's DC office treats all UAVs the same
> as they do a 20,000 lb ground launched jet propelled Predator in civil
> airspace flying above 700 ft AGL, even tho they recognize that some are
> are as small as 4 oz with 6 inch wingspans.
>
> And you can fly 'em legally, provided you get an airworthiness
> certificate,
> Joe. Just get a 2nd sub-prime mortgage to pay for it!!
>
> 73 de Mike W5VSI
>
>
>
> Joe wrote:
> > Hi All, Yeah the bad news guy again.
> >
> > Sorry here in the USA these won't be legal.

> >
> > Sorry.
> >
> > Joe
> >
> > José Machao wrote:
> >> Good idea from New Zealand:
> >>
> >> http://www.gpsboomerang.com/
> >>
> >> 73's
> >> Jose
> >> LU7JCN
> >>
> >> ---
> >> To: Ballooning@yahoogroups.com <mailto:Ballooning%40yahoogroups.com>
> >> From: dpaulfinch@... <mailto:dpaulfinch%40azlecomm.com>
> >> Date: Sun, 4 May 2008 09:01:05 -0500
> >> Subject: RE: [Ballooning] When to scrub a launch
>
> >>
> >> Joe,
> >>
> >> You have to realize I am cheap, and I am doing a lot of the
> >> financing of this myself. I was thinking of making ours a
> >> floating package also, would be very easy and not take much
> >> weight. Problem would be the recovery.
> >>
> >> Has anyone ever put on high intensity LED's on their package?
> >> That again would not take much weight from the payload, my X-Band
> >> repeater is only 10.4 ounces without the battery.
> >>
> >> Does anyone have a source for the Lithium batteries? Ours seemed
> >> to have dried up.
> >>
> >> Paul
> >>
> >>
> >>
> >> ---
> >> *From:* Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
> >> [mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>] *On Behalf Of *Joe
> >> *Sent:* Saturday, May 03, 2008 10:11 PM
> >> *To:* Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
> >> *Subject:* Re: [Ballooning] When to scrub a launch
> >>
> >> Hi Paul,

> >>
> >> Your payload sounds like our very first one almost 20 years ago
> >> this june or so,
> >>
> >> anyway, ground winds are nothing compared to winds aloft at
> >> times. summer time you have it made the payload won't travel very
> >> far. we have had them land as close as only 2 miles from the
> >> launch site even after exceeding 100,000 feet., but then again
> >> we've have had payloads in the winter travel several hundred miles
> >> to it's landing spot.
> >>
> >> As far as weather rain is nothing all our payloads are
> >> constructed so even if they land in a lake they will float and
> >> remain dry inside.
> >>
> >> Wow, i remember the days of a payload that cost like 45 bucks he
> >> he he
> >>
> >> the last one we flew had over a kilobuck inside. he he he
> >>
> >> joe
> >>
> >> Paul Finch wrote:
> >>
> >> Joe,
> >>
> >> But the weather Bureau does not really expect to recover their
> >> packages. I think I would cry if we lost ours, I built the
> >> crossband repeater out of junk HT's and a low cost
> >> controller. Radio was 15 dollars and the controller about
> >> $40.00. Guess I am trying to say I have some time in the
> >> project and would really hate to loose it.
> >>
> >> If you launch in rain, how do you go about sealing the
> >> package? What kind of package do you use?
> >>
> >> Paul
> >>
> >>
> >>
> >> --
> >> *From:* Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
> >> <mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>>
> >> [mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
>
> >> <mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>>] *On Behalf Of *Joe

> >> *Sent:* Saturday, May 03, 2008 11:57 AM
> >> *To:* Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
> >> <mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>>
>
> >> *Subject:* Re: [Ballooning] When to scrub a launch
> >>
> >> Hi paul,
> >>
> >> No, we have launched in all the above, or below I should say.
> >> There are ways to do it. think about it. the WX buro does it
> >> 2 times a day in many locations every dau rain or shine too.
> >>
> >> Joe
> >>
> >> Paul Finch wrote:
> >>
> >> Joe,
> >>
> >> Never? What about rain and storms? What about really
> >> high winds?
> >>
> >> By the way, I am new to the group. I live in Azle, Texas
> >> and our little club is planning a balloon launch maybe
> >> late this year.
> >>
> >> Paul
> >>
> >>
> >> --
> >> *From:* Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
> >> <mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>>
> >> [mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
>
> >> <mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>>] *On Behalf Of *Joe
> >> *Sent:* Saturday, May 03, 2008 9:34 AM
> >> *To:* Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>
> >> <mailto:Ballooning@yahoogroups.com
> <mailto:Ballooning%40yahoogroups.com>>
>
> >> *Subject:* Re: [Ballooning] When to scrub a launch
> >>
> >> we never scrub
> >>

> >> Joe NSS
> >> Bruce Coates wrote:
> >>
> >> Hi
> >>
> >> With our first launch planned in a couple of weeks,
> >> I'd like to get you opinions on when you say enough is
> >> enough and you scrub your launch and why. We will be
> >> flying a 1200 gram balloon with one parachute and one
> >> ~12" cube payload. I'm guessing but, I assume about
> >> 10-15 km/h (6-10 mph) winds, stormy weather, jetstream
> >> directly in your flight path might be good reasons to
> >> scrub.
> >>
> >> Any advice is welcome.
> >>
> >> 73, Bruce VE5BNC
> >> Saskatoon Amateur Radio Club
> >> http://sarl.ca/ve5aa/balloon.html
> >> <http://sarl.ca/ve5aa/balloon.html>
> >>
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG.
> >> Version: 7.5.524 / Virus Database: 269.23.8/1412 - Release
> >> Date: 5/2/2008 4:34 PM
> >>
> >>
> >> No virus found in this outgoing message.
> >> Checked by AVG.
> >> Version: 7.5.524 / Virus Database: 269.23.8/1412 - Release
> >> Date: 5/2/2008 4:34 PM
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG.
> >> Version: 7.5.524 / Virus Database: 269.23.8/1412 - Release
> >> Date: 5/2/2008 4:34 PM
> >>
> >>
> >> No virus found in this outgoing message.
> >> Checked by AVG.
> >> Version: 7.5.524 / Virus Database: 269.23.8/1412 - Release
> >> Date: 5/2/2008 4:34 PM
> >>
> >>
> >> No virus found in this incoming message.
> >> Checked by AVG.
> >> Version: 7.5.524 / Virus Database: 269.23.8/1413 - Release Date:

> >> 5/3/2008 11:22 AM
> >>
> >>
> >> No virus found in this outgoing message.
> >> Checked by AVG.
> >> Version: 7.5.524 / Virus Database: 269.23.8/1413 - Release Date:
> >> 5/3/2008 11:22 AM
> >>
> >>
> >>
> >> ----------
>
> >> Ingresá ya a MSN en Concierto y disfrutá los recitales en vivo
> de tus
> >> artistas favoritos. MSN en Concierto
> >> <http://msninconcert.msn.com/music/archive/es-la/archive.aspx>
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4238. Re: [GPSL] Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-05 22:59:54 UTC
From: Harry M
Topic: 4231 Message: 4238

ORB - 1 Tank

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/

4239. Pioneering balloon launch in Uruguay, Southamerica

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-06 21:20:42 UTC
From: Luis Eduardo Pacheco
Topic: 4239 Message: 4239
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4240. BASE 23 - Successfully completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-07 20:01:19 UTC
From: BASE
Topic: 4240 Message: 4240

BASE 23 was successfully completed today with an
exciting end of flight impact.

Launch from Greencastle, IN - 12:45 UTC

Burst Altitude - 82,300 feet

Landing - downrange 78 miles heading 93.3 degrees

Payloads never hit the ground. The flight string -
three boxes below the chute was intercepted by a large
truck carrying mulch traveling east on US 52 at
highway speed. The APRS radio (which failed in post
burst chaos) landed on the hood, the experiment pod
was on the front grill, the command pod - flight
radio, computer, and 900 MHz spread spectrum radio was
on the roof, and the chute and balloon in the bed of
the truck. Thankfully the driver maintained control
of the vehicle and called to report the recovery.
Having left Greencastle fifteen minutes after launch
we were about eight miles from the system at the
moment of impact.

All pods seemed unfazed by the event. The driver's
beagle continued to bark at the boxes until we met.

It was an exciting end to our twelfth flight of the
school year.

More details to follow on the website:

http://www.depauw.edu/acad/physics/base

BASE 24 is scheduled for 18 June.

Howard

_____
Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4241. Re: [GPSL] BASE 23 - Successfully completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-07 23:18:07 UTC
From: Mike Manes
Topic: 4240 Message: 4241

IIRC, this is only the 2nd ARHAB / highway collision on record.
Congrats on the recovery, and thank goodness the outcome was
benign. It also serves as a testimony for including "phone home"
and "return to sender" info on the payloads and designing 'em
to survive a rough landing.

73 de Mike W5VSI, EOSS

BASE wrote:
> BASE 23 was successfully completed today with an
> exciting end of flight impact.
>
> Launch from Greencastle, IN - 12:45 UTC
>
> Burst Altitude - 82,300 feet
>
> Landing - downrange 78 miles heading 93.3 degrees
>
> Payloads never hit the ground. The flight string -
> three boxes below the chute was intercepted by a large
> truck carrying mulch traveling east on US 52 at
> highway speed. The APRS radio (which failed in post
> burst chaos) landed on the hood, the experiment pod
> was on the front grill, the command pod - flight
> radio, computer, and 900 MHz spread spectrum radio was
> on the roof, and the chute and balloon in the bed of
> the truck. Thankfully the driver maintained control
> of the vehicle and called to report the recovery.
> Having left Greencastle fifteen minutes after launch
> we were about eight miles from the system at the
> moment of impact.
>
> All pods seemed unfazed by the event. The driver's
> beagle continued to bark at the boxes until we met.
>
> It was an exciting end to our twelfth flight of the
> school year.
>
> More details to follow on the website:
>
> http://www.depauw.edu/acad/physics/base
>
> BASE 24 is scheduled for 18 June.
>
> Howard

>
>
> ~~~~~~
> Be a better friend, newshound, and
> know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ
>
> ---------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4242. BASE 23

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-08 03:10:22 UTC
From: K. Mark Caviezel
Topic: 4242 Message: 4242

Any damage to the truck? What type of packaging was
used for the payloads? Total payload weight?

- Mark ng0x

4243. Base 23

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-08 03:12:27 UTC
From: K. Mark Caviezel
Topic: 4243 Message: 4243

Any damage to the truck?
Total Payload weight?

73s
- Mark ng0x

4244. Re: [GPSL] Base 23

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-08 13:16:57 UTC
From: BASE
Topic: 4243 Message: 4244

Dear friends,

Here are some additional details about the impact of BASE 23 and the mulch truck.

There was no damage to the truck. All three pods were foam core construction (either two inch or one inch thick) with the payload region cut out from the middle of each piece leaving a solid perimeter. The pieces were bonded by 2 hour epoxy. Total payload mass was 2.5 kg (weight of 5.5 lbs) the two radio pods were each 0.75 kg and the experiment pod was 1.0 kg.

Impact was on the broad side of the APRS radio pod where the weight density is 1/8th of an ounce per square inch (the narrow side is 3/4 of an ounce per square inch).

The parachute was a 6 foot Spherachute and the vertical descent speed was 15 +/- 2 mph below 30,000 feet. Surface winds at the moment of impact were almost identical from the southwest.

Staying significantly below the safety guidelines (weight density less than 3 ounces per square inch on the smallest cross sectional side) made the collision structurally inconsequential.

The bigger issue is driver distraction, which was not a problem in this case. However, the traffic density on US 52 at that time of morning was no more than one vehicle per minute in either direction on the two lane road. The light traffic explains why no one else witnessed the impact.

Howard

--- "K. Mark Caviezel" <kmcaviezel@...> wrote:

> Any damage to the truck?
> Total Payload weight?
>
> 73s
> - Mark ng0x
>
>

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4245. RE: [GPSL] Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-08 14:30:25 UTC
From: Nick Hanks
Topic: 4231 Message: 4245

Hi Deb,

Edge of Space Sciences (EOSS) will need a single T-bottle for GPSL.

Thanks.

Nick
NØLP
EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of dlkaiser23
Sent: Sunday, May 04, 2008 14:10
To: GPSL@yahoogroups.com
Subject: [GPSL] Helium Order Estimate

We are attempting to get an idea of how many bottles of helium are needed for GPSL.

The situation is this:
We don't know what the price may be, but think it will be somewhere around twice the
cost it has been in the past.
We are not sure we can find a source for as much as we will need, but we are in the
process of researching this and have a new lead to follow up on.
We need to know how many bottles you would like to have available for your use.

Please respond to this email with your name, your group and the number of bottles desired. I
will track this for Troy who is trying to locate a source for us.

Thank you.

Deb Kaiser

4246. Launch Info

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-09 16:30:19 UTC
From: ke5hdn
Topic: 4246 Message: 4246

I am not sure if it is too late but I would to participate in the GPSL by launching a balloon. It will either be the 3rd for 4th launch of HAPB.

Who would I need to talk to?

Thanks
Earl - KE5HDN
www.hapb.net

4247. George Flinchbaugh WA8HDX of Findlay OH is SK

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-09 19:29:34 UTC
From: wb8elk@aol.com
Topic: 4247 Message: 4247

George Flinchbaugh WA8HDX of Findlay, Ohio passed away after 20 days in intensive care for heart bypass surgery...he was 87.

I'm glad I had the chance to do one more balloon event at his farm last August to celebrate the 20th anniversary of the first flight in 1987 that was launched from his farm. He was a great friend and an avid supporter of our balloon efforts offering his farm and ham station with welcoming arms for over 20 years.

- Bill WB8ELK

**********Wondering what's for Dinner Tonight? Get new twists on family favorites at AOL Food.
(http://food.aol.com/dinner-tonight?NCID=aolfod00030000000001)

4248. Re: [GPSL] Launch Info

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-09 23:46:39 UTC
From: Keith Kaiser
Topic: 4246 Message: 4248

Not too late at all Earl. We have not even opened registration yet.
The web site is at superlaunch.org, keep an eye there and and ear here
on the list and it won't be long.

Welcome to GPSL.

Kansas City or Burst!
-- Keith

On May 9, 2008, at 11:30 AM, ke5hdn wrote:

> I am not sure if it is too late but I would to participate in the GPSL
> by launching a balloon. It will either be the 3rd for 4th launch of
> HAPB.
>
> Who would I need to talk to?
>
> Thanks
> Earl - KE5HDN
> www.hapb.net
>
>
>

4249. GPSL 2008 Lodging

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 00:00:57 UTC
From: Harry M
Topic: 4249 Message: 4249

I don't remember if there was a consensus on a preferred place of lodging for GPSL.
I don't see a preference on the Superlaunch site.

Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

4250. Re: [GPSL] GPSL 2008 Lodging

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 00:28:59 UTC
From: Keith Kaiser
Topic: 4249 Message: 4250

We are not pushing one place over the other. The only consensus seemed to be 'we want to stay where we want to stay'. All of the conference will be over at the college so we won't really need the facilities of a hotel or motel.

Hope this helps a little.

On May 9, 2008, at 7:00 PM, Harry M wrote:

>
>
> I don't remember if there was a consensus on a preferred place of
> lodging for GPSL.
> I don't see a preference on the Superlaunch site.
>
> Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>
>

4251. Re: [GPSL] Base 23

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 02:16:06 UTC
From: BASE
Topic: 4243 Message: 4251

Dear friends,

The landing, and the flight, made the local paper in
Rushville. The only significant factual error is that
we did NOT have a visual on the descent, only a radio
signal. We were delayed en route to the destination
by a highway striping paint crew and road construction
in Rushville.

Here is the link to the article:

http://www.rushvillerepublican.com/local/local_story_130092437.html

Howard

Be a better friend, newshound, and
know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4252. Re: [GPSL] GPSL 2008 Lodging

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 02:23:48 UTC
From: BASE
Topic: 4249 Message: 4252

Dear Harry,

I stayed at the Super 8 in the fall of 2006 and had no
problems. It is the oldest of the motels on the list.
It is also slightly closer to campus. The others
are on the other side of I-35 (a whole half mile
farther).

As an Scouter, I don't have too many complaints about
any indoor facility, especially with indoor plumbing!.
I will let my colleagues choose where we stay for
GPSL.

Howard
--- Harry M <hhm_74115@...> wrote:

>
> I don't remember if there was a consensus on a
> preferred place of lodging for GPSL.
> I don't see a preference on the Superlaunch site.
>
> Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion -
>
http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

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know-it-all with Yahoo! Mobile. Try it now.
http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj9tAcJ

4253. Re: Helium Order Estimate

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 15:46:28 UTC
From: dlkaiser@kc.rr.com
Topic: 4231 Message: 4253

Sorry for the delayed response. Thank you all for your responses. I am tracking the estimates and we will see what sources are available as soon as we can.

Have a great weekend!

73's
W0DLK

4254. Re: [GPSL] RE: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 17:32:39 UTC
From: Harry M
Topic: 4140 Message: 4254

Before I order my t-shirt, are there any known problems with adult sizes? I ordered from Zazzle last year and the shirt was a Hanes large and it fit just right.

I don't see an option to adda a pocket. I would like a pocket.

73 Harry KC5TRB

4255. Re: [GPSL] GPSL 2008 Lodging

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 17:40:26 UTC
From: Harry M
Topic: 4249 Message: 4255

Thanks for the replies on lodging.

For those of you thinking of staying at the Hampton, they only list WIRED internet on their web site. I called them and they confirmed that they ONLY have wired internet and NO wireless.

73 Harry KC5TRB

4256. Re: [GPSL] RE: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-10 17:42:48 UTC
From: Harry M
Topic: 4140 Message: 4256

BTW - ORB shirt color is yellow.

4257. Alaska First Balloon Flight A Success

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-11 19:40:33 UTC
From: powellite52
Topic: 4257 Message: 4257

Hi all;

I just wanted to thank all of the folks who have given me advice, tips, direction and suggestions - making our first (ever) flight a breathtaking success.

After several months of preparation, we launched the BEAR balloon flight #1 yesterday morning (Saturday May 10) at 10:09am and watched in awe as it went to 95,170 feet before burst and subsequent descent.

Our initial flight planning included an airplane intercept with on-board GPS/Radio tracking gear operated by two ham radio operators who tracked the descending balloon and overflew the exact impact location.

Although we originally thought recover would be impossible, we were thrilled with a near vertical ascent and descent with the balloon package landing about 12 miles away and within 4-wheeler reach. Within the next week, we are anticipating recovery of capsule 3 which included a still camera set to taken pictures every 3 minutes as well as a data logger.

I will post data, ground and air video and data as they become available on the Bear web site (http://www.bear.437am.com/)

Now that we've successfully tested the BEAR balloon template, we anticipate using a portion of the future flights for testing the University Of Alaska's "Cubesat" packages and several ham radio experiments.

Dan (KL1JP)
Neal (WL7NZ)

4258. Re: [GPSL] Alaska First Balloon Flight A Success

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-12 00:17:52 UTC
From: Mike Manes
Topic: 4257 Message: 4258

Congrats on a successful first flight! Seems the stratospheric turnaround happens a lot sooner at the higher latitudes than down here in the lower 48. Keep up the good work, and hope to hear about more flights soon.

73 de Mike W5VSI
CTO EOSS

powellite52 wrote:
> Hi all;
>
> I just wanted to thank all of the folks who have given me advice,
> tips, direction and suggestions - making our first (ever) flight a
> breathtaking success.
>
> After several months of preparation, we launched the BEAR balloon
> flight #1 yesterday morning (Saturday May 10) at 10:09am and watched
> in awe as it went to 95,170 feet before burst and subsequent descent.
>
> Our initial flight planning included an airplane intercept with
> on-board GPS/Radio tracking gear operated by two ham radio operators
> who tracked the descending balloon and overflew the exact impact location.
>
> Although we originally thought recover would be impossible, we were
> thrilled with a near vertical ascent and descent with the balloon
> package landing about 12 miles away and within 4-wheeler reach. Within
> the next week, we are anticipating recovery of capsule 3 which
> included a still camera set to taken pictures every 3 minutes as well
> as a data logger.
>
> I will post data, ground and air video and data as they become
> available on the Bear web site (http://www.bear.437am.com/)
>
> Now that we've successfully tested the BEAR balloon template, we
> anticipate using a portion of the future flights for testing the
> University Of Alaska's "Cubesat" packages and several ham radio
> experiments.
>
>
> Dan (KL1JP)
> Neal (WL7NZ)
>
>
>
>
> ------------------------------------

>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4259. Re: [Balloonatics] DJ-C5 antenna mod

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-12 00:01:42 UTC
From: Harry M
Topic: 4259 Message: 4259

Chris,

I'm not sure about the C5 radio. I've only modified a C1 & C4.
I think Mike W5VSI is the one that came up with the hack.

What say ye Mike?

FYI - Mike may not monitor this Forum so I posted it to the GPSL Forum also.

> I'm wondering if anybody can help me with getting an external antenna
into my Alinco DJ-C5 radio

> Try this EOSS link...
> http://www.eoss.org/onlinepubs/alinco_antenna/alinco_antenna_attach.htm

> My eyes are not great and I'm not sure that I can see what the EOSS page
> is talking about, the solder bridge between the connector and the edge of
> the board.

4260. Re: [GPSL] Re: [Balloonatics] DJ-C5 antenna mod

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-12 03:45:43 UTC
From: Mike Manes
Topic: 4259 Message: 4260

Hi Harry,

No - not on balloonatics reflector - too many already! So you'll have to forward this to Chris if he's not on GPSL.

Sure wish the GPSL reflector would TURN OFF the forced Reply-To PITA feature. No clue how to contact Chris offline :={. So I'll bore all of you with this reply.

Hi Chris,

The coax installation for the DJ-C5 is per the variation instructions at the top of the page that Harry gave you the link to. And I have to use binocular magnifiers with a welder's helmet strap to do this work any more myself :={. I got mine cheap from Harbor Freight - or you can use an eye loupe or a magnifying desk lamp - essential tools for working on modern radios, especially for those of us who started out using a Weller solder gun for everything - even 1/4W axial carbon comp resistors on octal socket pins.

The solder bridge is evident by the fact that it stands higher off the board than other SMT connections, and it's not associated with any other components. Touching it with the clean tip of a 310C iron should pull the solder right off, leaving the two adjacent pads visible.

The solder bridge connects the 50-ohm antenna I/O from the radio to the input of the built-in dual-band matching network - the same function served by the blue jumper in the DJ-C1. Removing that bridge isolates the matching network so one can apply a 50-ohm load via coax. You'll know you done good if xmit output power is about 350 mW with +5.0V dc external power applied in place of the Li-ion battery (batt terminals also go straight to the 2 recessed charger input pins in the back of the radio.)

Hope that helps. Now that I have a digital camera, I could shoot a pix of that area of the board when I get that payload torn down next.

73 de Mike W5VSI

Harry M wrote:
> Chris,
>
> I'm not sure about the C5 radio. I've only modified a C1 & C4.
> I think Mike W5VSI is the one that came up with the hack.
>
> What say ye Mike?
>
>

> FYI - Mike may not monitor this Forum so I posted it to the GPSL Forum also.
>
> -----
>
>> I'm wondering if anybody can help me with getting an external antenna
> into my Alinco DJ-C5 radio
>
>> Try this EOSS link...
>> http://www.eoss.org/onlinepubs/alinco_antenna/alinco_antenna_attach.htm
>
>> My eyes are not great and I'm not sure that I can see what the EOSS page
>> is talking about, the solder bridge between the connector and the edge of
>> the board.
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4261. HAPB3 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-12 23:37:49 UTC
From: Earl Foster
Topic: 4257 Message: 4261

Today was a successful day with my HAPB-3 launch. There were several moments of excitement during the descent when it looked like it was going to land in the middle of the Richland Creek Reservoir. That fact that it was traveling east at 100 miles an hour for ~20,000 feet pushed HAPB beyond the body of water. Just when we thought we were clear a 30 mph NW wind pushed HAPB to the edge of the reservoir - SPLASH DOWN! Park rangers and a nearby fisherman helped retrieve the payload.

Max Altitude: 103,274 feet

Images are available: http://www.hapb.net/HAPB3_files/images/index.htm

Still working on the in-flight data and video. I should have it uploaded in a couple of days.

73s
Earl - KE5HDN

Get Free (PRODUCT) RED™ Emoticons, Winks and Display Pics.
http://joinred.spaces.live.com?ocid=TXT_HMTG_prodredemoticons_052008

4262. Re: [GPSL] HAPB3 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-13 00:27:41 UTC
From: Brek Brixius
Topic: 4257 Message: 4262

Nice job Earl! Love the photos.

Brek - KC0YOE

Earl Foster <ebf306@...> wrote:
Today was a successful day with my HAPB-3 launch. There were several moments of excitement during the descent when it looked like it was going to land in the middle of the Richland Creek Reservoir. That fact that it was traveling east at 100 miles an hour for ~20,000 feet pushed HAPB beyond the body of water. Just when we thought we were clear a 30 mph NW wind pushed HAPB to the edge of the reservoir - SPLASH DOWN! Park rangers and a nearby fisherman helped retrieve the payload.

Max Altitude: 103,274 feet

Images are available: http://www.hapb.net/HAPB3_files/images/index.htm

Still working on the in-flight data and video. I should have it uploaded in a couple of days.

73s
Earl - KE5HDN

Get Free (PRODUCT) RED? Emoticons, Winks and Display Pics. Check it out!

Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try it now.

4263. Re: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-13 04:33:23 UTC
From: dlkaiser@kc.rr.com
Topic: 4140 Message: 4263

There are definitely issues with the ladies shirts being non-standard sizes. I would make sure to check the size chart for any shirts you are ordering.

As far as a pocket goes, just look through all the styles. I am not sure if there is one there that has a pocket or not.

Hope it goes well for you. I have had to return and reorder, so i hope this isn't a common problem.

73's
Deb Kaiser

4264. RE: [GPSL] Re: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-13 12:29:31 UTC
From: Nick Hanks
Topic: 4140 Message: 4264

Deb,

Would you recommend ordering one size larger than what a lady would normal order? Two sizes?

Nick

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of dlkaiser@...
Sent: Monday, May 12, 2008 22:33
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: GPSL 2008 T-Shirts

There are definitely issues with the ladies shirts being non-standard sizes. I would make sure to check the size chart for any shirts you are ordering.

As far as a pocket goes, just look through all the styles. I am not sure if there is one there that has a pocket or not.

Hope it goes well for you. I have had to return and reorder, so i hope this isn't a common problem.

73's
Deb Kaiser

4265. RE: [GPSL] Re: GPSL 2008 T-Shirts

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-13 14:20:49 UTC
From: gregwilliams@knology.net
Topic: 4140 Message: 4265

I ordered a Ladies size L and it was snug on my wife. I'd order an XL, or whatever is one size up.

I still need to call Zazzle and correct that...

Greg

On Tue May 13 8:29 , "Nick Hanks" sent:

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>Would you recommend ordering one size
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>Nick
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>EOSS

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>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com]
>On Behalf Of dlkaiser@...
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>Sent: Monday, May 12, 2008 22:33
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>To: GPSL@yahoogroups.com
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>Subject: [GPSL] Re: GPSL 2008
>T-Shirts
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>As far as a pocket goes, just look through all the styles. I am not
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>sure if there is one there that has a pocket or not.
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>Hope it goes well for you. I have had to return and reorder, so i
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>hope this isn't a common problem.
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4266. Earth-balloon-balloon-earth test this Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-14 20:57:17 UTC
From: Mark Conner
Topic: 4266 Message: 4266

NSTAR and Near Space Sciences are planning a voice EBBE setup with their respective balloon flights Saturday morning. NSTAR will launch from the Omaha area and NSS will launch from Baraboo WI (northwest of Madison). Launch time should be around 1300 UTC (0800 CDT). NSTAR will have a simplex 70cm repeater and NSS will have a 70cm/2m cross-band repeater.

Bill WB8ELK plans to try contacts from the Dayton Hamvention. We'd also like to scare up some users to see if we can maximize not only our distance but opportunities for EBBE QSOs over a shorter range. Ideally we'd like operators in the following locations:

Central/western Nebraska
North-central Kansas
Northern half of Indiana
Western parts of Lower Michigan

Users closer to NSTAR will be using 70cm, probably 446.30 MHz. NSS users will be on a 2m uplink (freq TBD). Another message will be posted when frequencies are determined.

The ideal time to try will be 60-90 minutes after launch, or 1400-1430 UTC.

E-mail me if you plan to participate and/or have questions.

73 de Mark N9XTN

4267. Re: [GPSL] Earth-balloon-balloon-earth test this Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-14 21:27:33 UTC
From: Joe
Topic: 4266 Message: 4267

Hi Mark,
Joe Here and NSS,,

Ok freqs look good,, No Birdies here,, so the 446.300 is a go, and
on our end 144.325/446.300 BOTH WAYS!
How set in concrete is the 8 am CDT launch? I thought it was at first
going to be at 9?
I havent heard back from the scouts if 8 would be ok or not, Having to
co-ordinate several hundred Boy& Girl scouts is fun!

More info for everyone,
We here at NSS will have also a chat room running during the flight.
Hopefully it wont get attacked like the one from Bill's mission last
weekend.

It shouldn't it's not using IRC it's a private one I made for a web
site I made for a friend, the chat room is at,
http://www.roatanbruce.com/chat.html

We also will be running a mission net / amateur radio demo for the
scouts on 40 meters, starting at 7225 and up (QRM)

Take care

Joe WB9SBD And Near Space Sciences

Mark Conner wrote:

>NSTAR and Near Space Sciences are planning a voice EBBE setup with their respective balloon flights Saturday morning. NSTAR will launch from the Omaha area and NSS will launch from Baraboo WI (northwest of Madison). Launch time should be around 1300 UTC (0800 CDT). NSTAR will have a simplex 70cm repeater and NSS will have a 70cm/2m cross-band repeater.
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>
>The ideal time to try will be 60-90 minutes after launch, or 1400-1430 UTC.
>

>E-mail me if you plan to participate and/or have questions.
>
>73 de Mark N9XTN
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>Yahoo! Groups Links
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4268. Re: [GPSL] Earth-balloon-balloon-earth test this Saturday

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-15 00:48:11 UTC
From: Mark Conner
Topic: 4266 Message: 4268
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4269. Re: [GPSL] HAPB3 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-15 02:21:10 UTC
From: Mike Manes
Topic: 4257 Message: 4269

Excellent pix, especially the "splash down"! What measures were taken
to keep the camera dry?

73 de Mike W5VSI, EOSS

Brek Brixius wrote:
> Nice job Earl! Love the photos.
>
> Brek - KC0YOE
>
> */Earl Foster <ebf306@msn.com>/* wrote:
>
> Today was a successful day with my HAPB-3 launch. There
> were several moments of excitement during the descent when it looked
> like it was going to land in the middle of the Richland Creek
> Reservoir. That fact that it was traveling east at 100 miles an
> hour for ~20,000 feet pushed HAPB beyond the body of water. Just
> when we thought we were clear a 30 mph NW wind pushed HAPB to the
> edge of the reservoir - SPLASH DOWN! Park rangers and a nearby
> fisherman helped retrieve the payload.
>
> Max Altitude: 103,274 feet
>
> Images are available:
> http://www.hapb.net/HAPB3_files/images/index.htm
> <http://www.hapb.net/HAPB3_files/images/index.htm>
>
> Still working on the in-flight data and video. I should have it
> uploaded in a couple of days.
>
> 73s
> Earl - KE5HDN
>
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> Get Free (PRODUCT) RED™ Emoticons, Winks and Display Pics. Check it
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> <http://joinred.spaces.live.com/?ocid=TXT_HMTG_prodredemoticons_052008>
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> ---
> Be a better friend, newshound, and know-it-all with Yahoo! Mobile. Try
> it now.
> <http://us.rd.yahoo.com/evt=51733/*http://mobile.yahoo.com/;_ylt=Ahu06i62sR8HDtDypao8Wcj
9tAcJ
> >

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4270. RE: [GPSL] HAPB3 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-15 03:37:09 UTC
From: Earl Foster
Topic: 4257 Message: 4270

Mike,
Thanks, I am very pleased with the outcome of this flight and the pictures and video.

The capsule is a Styrofoam cooler with walls 1.5 inches think and a wide base so it is naturally buoyant. The video lens hole is located 4.5 " up from the bottom and the camera lens hole is 6" up from the bottom. It landed flush on its bottom in a fairly calm body of water so that made the difference. I designed the 3 tier electronic housing structure with the heaviest items at the bottom so when it was installed inside the capsule the center of mass would be near the bottom but even that sits about 2 inches up from the bottom. I would like to think it was because of my design but it was probably just dumb luck.

73s
Earl - KE5HDN
www.hapb.net

http://www.windowslive.com/mobile/overview.html?ocid=TXT_TAGLM_WL_Refresh_mobile_052008

4271. NSTAR Flight 08-B - Saturday, May 17th

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-15 13:58:11 UTC
From: Mark Conner
Topic: 4271 Message: 4271

Nebraska Stratospheric Amateur Radio (NSTAR) Flight 08-B is scheduled for Saturday, May 17th, at 0800 CDT (1300 UTC). Launch site will be the parking lot of Treynor High School in Treynor, IA.

A unique feature of this flight will be an attempt to complete a voice Earth-Balloon-Balloon-Earth (EBBE) QSO. The NSTAR balloon will have a voice simplex repeater on 446.30 MHz. Another balloon, Near Space Sciences, will launch from Baraboo WI at 0900 CDT with a cross-band repeater on 446.30 MHz/144.325 MHz. Users near the NSTAR end (western Iowa/Nebraska/Kansas) should use the 446.30 uplink, while users near the NSS end (eastern Iowa/Wisconsin/Illinois/Indiana/Michigan) should use 144.325 MHz. Please allow time between transmissions for the simplex repeater to record and then retransmit your QSO and keep your transmission short (10 sec or so). If all goes well, QSOs from central Nebraska to possibly as far as the Dayton Hamvention may be possible.

APRS will be on 144.36 MHz with callsign N9XTN-11 and on 144.39 MHz with callsign N9XTN-12.

Due to the wind forecast, NSTAR will arrive and prepare for an 0800 CDT launch time. If the surface winds are quiet, we will hold our launch as close as possible to 0900 CDT to match up with the fixed NSS launch time. If the wind begins to come up, we will launch prior to 0900. Total flight time will be about two hours, with a maximum expected altitude for NSTAR of 95,000 ft.

The high school is easy to find and is well-marked from Hwy 92 going through Treynor. Go south at the sign for the high school and the parking lot is on the south side of the school building. We will be monitoring the SW Iowa ARC repeater in Council Bluffs on 146.82- and 446.30 simplex at the launch site for talk-in.

Anyone planning to help with the launch should plan to arrive by 0715 CDT. For those new to balloon chasing, the only necessary equipment is an HT capable of using 446.30 MHz. APRS in the car is helpful but not necessary.

The latest forecast is for a track direction of 145 degrees and a distance of 63 miles. This puts the landing about 10 miles northwest of Maryville MO. The track forecasts still have some uncertainty to them but the area betweee Clarinda IA and Maryville MO looks most likely for our landing zone. NSTAR will probably chase south on US59 to IA-2, east to Clarinda, and then south on US 71.

E-mail me if you have any questions. Last-minute information may be found at http://groups.yahoo.com/group/KNSP/messages . A comprehensive list of upcoming flights is at http://www.arhab.org .

73 de Mark N9XTN

4272. Re: [GPSL] HAPB3 Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-16 00:47:34 UTC
From: Mike Manes
Topic: 4257 Message: 4272

Hi Earl,

I was wondering if you'd put any glazing, e.g. acrylic film, over the
camera view ports. From lack of water drops in the image, I assume not.
So, yeah, maybe lucky, then?

BTW, roughly where do you launch from? Out here in CO, any body of water
that size would be called The Ocean :=P.

73 de Mike W5VSI, EOSS

Earl Foster wrote:
> Mike,
> Thanks, I am very pleased with the outcome of this flight and the
> pictures and video.
>
> The capsule is a Styrofoam cooler with walls 1.5 inches think and a wide
> base so it is naturally buoyant. The video lens hole is located 4.5 "
> up from the bottom and the camera lens hole is 6" up from the bottom.
> It landed flush on its bottom in a fairly calm body of water so that
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> the capsule the center of mass would be near the bottom but even that
> sits about 2 inches up from the bottom. I would like to think it was
> because of my design but it was probably just dumb luck.
>
> 73s
> Earl - KE5HDN
> www.hapb.net <http://www.hapb.net>
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> ---
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> > To: gofly2007@...; ebf306@...
> > CC: GPSL@yahoogroups.com; EOSS_Private@yahoogroups.com
> > From: mrmanes@...
> > Date: Wed, 14 May 2008 19:21:10 -0700
> > Subject: Re: [GPSL] HAPB3 Flight
> >
> > Excellent pix, especially the "splash down"! What measures were taken
> > to keep the camera dry?
> >
> > 73 de Mike W5VSI, EOSS
> >
> > Brek Brixius wrote:
> > > Nice job Earl! Love the photos.
> > >

> > > Brek - KC0YOE
> > >
> > > */Earl Foster <ebf306@...>/* wrote:
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> > > Today was a successful day with my HAPB-3 launch. There
> > > were several moments of excitement during the descent when it looked
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> > > Reservoir. That fact that it was traveling east at 100 miles an
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> > > when we thought we were clear a 30 mph NW wind pushed HAPB to the
> > > edge of the reservoir - SPLASH DOWN! Park rangers and a nearby
> > > fisherman helped retrieve the payload.
> > >
> > > Max Altitude: 103,274 feet
> > >
> > > Images are available:
> > > http://www.hapb.net/HAPB3_files/images/index.htm
> > > <http://www.hapb.net/HAPB3_files/images/index.htm>
> > >
> > > Still working on the in-flight data and video. I should have it
> > > uploaded in a couple of days.
> > >
> > > 73s
> > > Earl - KE5HDN
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> > > out!
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> > Mike Manes mrmanes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so."
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> > Yahoo! Groups Links
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> With Windows Live for mobile, your contacts travel with you. Connect on
> the go.
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<http://www.windowslive.com/mobile/overview.html?ocid=TXT_TAGLM_WL_Refresh_mobile_052008>
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4273. Re: [Fwd: [GPSL] Earth-balloon-balloon-earth test this Saturday]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-16 19:13:20 UTC
From: Harry M
Topic: 4273 Message: 4273

I will be entered in a car show in Muskogee, Ok tomorrow (8am-4pm) . I'll take my HT and Arrow antenna and start listening around 9:30-10am. My up/dn will be 446.300.
I'll be at Grid EM25HS.

73 Harry
KC5TRB

FYI - I would take my 26-El KLM but it's bigger than the car! :)

4274. Re: [KNSP] NSTAR Flight 08-B - Saturday, May 17th

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-16 21:14:27 UTC
From: Joe
Topic: 4271 Message: 4274

Hey Guys,

How long does it take on the average for the wx buro to get the evening soundings out so we can make a last minute this evening prediction.

The guys in the group here are having second thoughts. because of the HIGH possibility of a swim. This would be a FIRST for NSS, we have never scrubbed a flight scheduled before, so strange territory for me here.

So say we wee to use near space ventures pridiction page, about what time does anyone think it will have the new data for use from this evenings soundings?

Joe NSS

>
>

4275. Alaska BEAR 1 flight camera captures Tallest Point on North America

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-17 01:25:28 UTC
From: powellite52
Topic: 4275 Message: 4275

Our BEAR 1 flight camera captured several shots of Denali, the tallest point on the North American continent. Check out http://www.bear.437am.com/

After a grueling day long ATV (4-wheeler) journey, we managed to successfully recover the entire payload and we were amazed at what the payload camera captured.

More pictures and video to follow.

Dan KL1JP

4276. No EBBE for today

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-17 11:06:58 UTC
From: Mark Conner
Topic: 4276 Message: 4276
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4277. Re: [GPSL] Alaska BEAR 1 flight camera captures Tallest Point on North America

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-17 13:35:11 UTC
From: Pete Lilja
Topic: 4275 Message: 4277

That is incredible! What a flight. Thanks for sharing.

I am really amazed at how vertical the flight profile is. Very cool stuff. Looking at the Google Earth rendition helps visualize just how impressive this is.

That recovery must have been tough. Around here it is relatively flat and there are roads nearly every square mile.

Please do post additional photos and vid.

Pete
KCØGPB

----- Original Message -----
From: powellite52
To: GPSL@yahoogroups.com
Sent: Friday, May 16, 2008 8:25 PM
Subject: [GPSL] Alaska BEAR 1 flight camera captures Tallest Point on North America

Our BEAR 1 flight camera captured several shots of Denali, the tallest
point on the North American continent. Check out
http://www.bear.437am.com/

After a grueling day long ATV (4-wheeler) journey, we managed to
successfully recover the entire payload and we were amazed at what the
payload camera captured.

More pictures and video to follow.

Dan KL1JP

4278. EOSS Powershot Script

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-17 13:44:17 UTC
From: Pete Lilja
Topic: 4278 Message: 4278

A month or so ago I mentioned using the EOSS Canon Powershot script. That really is cool. At that time I asked about bumping up the resolution setting to Superfine and the author agreed it was a good idea. A buddy of mine was able to add that function to the EOSS script and we flew our first balloon nearly 3 weeks ago. Which brings up another idea for the script writers out there. Our payload was lost for 2.5 weeks due to radio downlink failure (that has yet to be figured out). After 2.5 weeks of laying in a cornfield in northern Illinois it was found by a farmer planting the field. He called and I went and picked it up. Amazingly the radio and camera contents of the Styrofoam box we dry and operable. However, the Canon Powershot's lens was dirty. It occurred to me it would be nice to have another function added to the camera script to turn off the camera after it finished taking pictures. When the batteries go flat on the Canon it does not retract the lens. Not a huge deal, maybe, but having that extra protection would be nice for the occasional lost payload.

Pete
KCØGPB

4279. NSTAR 08-B successfully recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-17 19:07:05 UTC
From: Mark Conner
Topic: 4279 Message: 4279
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4280. Re: [GPSL] EOSS Powershot Script

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-18 01:23:52 UTC
From: Mike Manes
Topic: 4278 Message: 4280

Hi Pete,

You might consider glazing your camera view port with acrylic film.
This would not only keep dirt out, but also moisture, and would help
keep a little heat in.

73 de Mike W5VSI, EOSS

Pete Lilja wrote:
> A month or so ago I mentioned using the EOSS Canon Powershot script.
> That really is cool. At that time I asked about bumping up the
> resolution setting to Superfine and the author agreed it was a good
> idea. A buddy of mine was able to add that function to the EOSS script
> and we flew our first balloon nearly 3 weeks ago. Which brings up
> another idea for the script writers out there. Our payload was lost for
> 2.5 weeks due to radio downlink failure (that has yet to be figured
> out). After 2.5 weeks of laying in a cornfield in northern Illinois it
> was found by a farmer planting the field. He called and I went and
> picked it up. Amazingly the radio and camera contents of the Styrofoam
> box we dry and operable. However, the Canon Powershot's lens was
> dirty. It occurred to me it would be nice to have another function
> added to the camera script to turn off the camera after it finished
> taking pictures. When the batteries go flat on the Canon it does not
> retract the lens. Not a huge deal, maybe, but having that extra
> protection would be nice for the occasional lost payload.
>
> Pete
> KCØGPB
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4281. Re: [GPSL] EOSS Powershot Script

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-18 03:32:26 UTC
From: Pete Lilja
Topic: 4278 Message: 4281

A good idea...

...However, I've heard doing that can cause moisture problems for the lens to see through. Is that not a problem?

Pete
KCØGPB
----- Original Message -----
From: Mike Manes
To: GPSL@yahoogroups.com
Sent: Saturday, May 17, 2008 8:23 PM
Subject: Re: [GPSL] EOSS Powershot Script

Hi Pete,

You might consider glazing your camera view port with acrylic film.
This would not only keep dirt out, but also moisture, and would help
keep a little heat in.

73 de Mike W5VSI, EOSS

Pete Lilja wrote:
> A month or so ago I mentioned using the EOSS Canon Powershot script.
> That really is cool. At that time I asked about bumping up the
> resolution setting to Superfine and the author agreed it was a good
> idea. A buddy of mine was able to add that function to the EOSS script
> and we flew our first balloon nearly 3 weeks ago. Which brings up
> another idea for the script writers out there. Our payload was lost for
> 2.5 weeks due to radio downlink failure (that has yet to be figured
> out). After 2.5 weeks of laying in a cornfield in northern Illinois it
> was found by a farmer planting the field. He called and I went and
> picked it up. Amazingly the radio and camera contents of the Styrofoam
> box we dry and operable. However, the Canon Powershot's lens was
> dirty. It occurred to me it would be nice to have another function
> added to the camera script to turn off the camera after it finished
> taking pictures. When the batteries go flat on the Canon it does not
> retract the lens. Not a huge deal, maybe, but having that extra
> protection would be nice for the occasional lost payload.
>
> Pete
> KCØGPB
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4282. Re: [GPSL] EOSS Powershot Script

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-19 04:49:29 UTC
From: Mike Manes
Topic: 4278 Message: 4282

Hi Pete,

Well, the camera lens would be exposed to about the same environment
without the glazing, except possibly for some heat from the camera
electronics. I've used inkjet printer transparency film with the rough
side washed off using 70% isopropyl rubbing alcohol for camera window film,
and the only problem I've encountered is some occasional frosting up
when descending thru a cloud - but it dissipates pretty quickly once it
gets into warmer and less humid air since there's very little thermal
mass to hold the temperature. I've seen other folk's camera lenses get
frosted up as well - think I'd prefer the moisture get on the glazing than
the lens.

I've had some limited success using windshield-grade RainX on exetrnal
glass view steering mirrors which have no heat source either side and have
a lot more thermal mass. Might work on acrylic as well, although I've
not tried it on the film glazing.

It's a cheap experiment. If you don't like it, just rip it off.
BTW, I used old, obsolete printed transparencies for mine that were
headed for the recycle bin anyway. What better a 2nd life, eh?

73 de Mike W5VSI

Pete Lilja wrote:
> A good idea...
>
> ...However, I've heard doing that can cause moisture problems for the
> lens to see through. Is that not a problem?
>
> Pete
> KCØGPB
>
> ----- Original Message -----
> *From:* Mike Manes <mailto:mrmanes@...>
> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
> *Sent:* Saturday, May 17, 2008 8:23 PM
> *Subject:* Re: [GPSL] EOSS Powershot Script
>
> Hi Pete,
>
> You might consider glazing your camera view port with acrylic film.
> This would not only keep dirt out, but also moisture, and would help
> keep a little heat in.
>
> 73 de Mike W5VSI, EOSS

>
> Pete Lilja wrote:
> > A month or so ago I mentioned using the EOSS Canon Powershot script.
> > That really is cool. At that time I asked about bumping up the
> > resolution setting to Superfine and the author agreed it was a good
> > idea. A buddy of mine was able to add that function to the EOSS
> script
> > and we flew our first balloon nearly 3 weeks ago. Which brings up
> > another idea for the script writers out there. Our payload was
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> > 2.5 weeks due to radio downlink failure (that has yet to be figured
> > out). After 2.5 weeks of laying in a cornfield in northern
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> > was found by a farmer planting the field. He called and I went and
> > picked it up. Amazingly the radio and camera contents of the
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> > box we dry and operable. However, the Canon Powershot's lens was
> > dirty. It occurred to me it would be nice to have another function
> > added to the camera script to turn off the camera after it finished
> > taking pictures. When the batteries go flat on the Canon it does not
> > retract the lens. Not a huge deal, maybe, but having that extra
> > protection would be nice for the occasional lost payload.
> >
> > Pete
> > KCØGPB
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4283. Re: [GPSL] EOSS Powershot Script

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-19 19:41:17 UTC
From: Harry M
Topic: 4278 Message: 4283

I have never used any covering over the lens and have had no problem with moisture. Here in Oklahoma the dew point is usually 60-70 and the humidity 60-80 in the spring and early summer. I've had the entire contents of the capsule saturated once opened at recovery, but never any moisture on the lens.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

4284. moisture on camera lens

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-19 20:31:56 UTC
From: Mark Conner
Topic: 4284 Message: 4284

We've run our cameras 'naked' with the front element exposed to the outside. In the summer we often see condensation on the camera when it descends into warmer and more humid air after being chilled during the flight.

Placing anything between the camera and the outside provides another opportunity for degradation of the optical path. I haven't had much luck with designing something that would keep the moisture out well enough to be worth degrading the pictures.

If the camera is kept warm enough, condensation won't form on it. You can see from the pictures on our 08-B flight that we had condensation for the lowest few thousand feet on descent. I've thought about placing heater elements on or near the camera, but I don't think it would be worth the battery power and weight required. Many chemical hand warmers also emit moisture which creates problems too. If you can keep the camera's temperature above 15 deg C or so, you should be able to prevent condensation in all but the most humid conditions.

73 de Mark N9XTN

4285. Re: [GPSL] EOSS Powershot Script

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 00:17:25 UTC
From: Mike Manes
Topic: 4278 Message: 4285

Well, of course in OK, the tropopause temp never goes below freezing :=}.

I've drained liquid water from several payloads that descended thru thick
cloud layers, and had to remove corrosion on PCBs which was the obvious
result of heavy condensation. The window glazing won't fix that, unless
the payload housing is a pressure vessel, since the ambient air will
rush in anywhere it can during descent. But a pack of desiccant near the
vent hole can help a lot!

73 de Mike W5VSI

Harry M wrote:
> I have never used any covering over the lens and have had no problem
> with moisture. Here in Oklahoma the dew point is usually 60-70 and the
> humidity 60-80 in the spring and early summer. I've had the entire
> contents of the capsule saturated once opened at recovery, but never any
> moisture on the lens.
>
> 73 Harry
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
> -----
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4286. Re: [GPSL] moisture on camera lens

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 00:26:18 UTC
From: Mike Manes
Topic: 4284 Message: 4286

Some thin glazing should help keep the camera warmer by eliminating forced convective cooling. Cheap and easy to try, and it solves the "dirty lens" problem that started this thread.

73 de Mike W5VSI

Mark Conner wrote:
> We've run our cameras 'naked' with the front element exposed to the outside. In the summer we often see condensation on the camera when it descends into warmer and more humid air after being chilled during the flight.
>
> Placing anything between the camera and the outside provides another opportunity for degradation of the optical path. I haven't had much luck with designing something that would keep the moisture out well enough to be worth degrading the pictures.
>
> If the camera is kept warm enough, condensation won't form on it. You can see from the pictures on our 08-B flight that we had condensation for the lowest few thousand feet on descent. I've thought about placing heater elements on or near the camera, but I don't think it would be worth the battery power and weight required. Many chemical hand warmers also emit moisture which creates problems too. If you can keep the camera's temperature above 15 deg C or so, you should be able to prevent condensation in all but the most humid conditions.
>
> 73 de Mark N9XTN
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4287. Re: [GPSL] moisture on camera lens

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 03:02:02 UTC
From: Joe
Topic: 4284 Message: 4287

I Agree totally with Mark on this one.
Joe NSS

Mike Manes wrote:

>Some thin glazing should help keep the camera warmer by eliminating forced
>convective cooling. Cheap and easy to try, and it solves the "dirty lens"
>problem that started this thread.
>
>73 de Mike W5VSI
>
>Mark Conner wrote:
>
>
>>We've run our cameras 'naked' with the front element exposed to the outside. In the summer we often see condensation on the camera when it descends into warmer and more humid air after being chilled during the flight.
>>
>>Placing anything between the camera and the outside provides another opportunity for degradation of the optical path. I haven't had much luck with designing something that would keep the moisture out well enough to be worth degrading the pictures.
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>>If the camera is kept warm enough, condensation won't form on it. You can see from the pictures on our 08-B flight that we had condensation for the lowest few thousand feet on descent. I've thought about placing heater elements on or near the camera, but I don't think it would be worth the battery power and weight required. Many chemical hand warmers also emit moisture which creates problems too. If you can keep the camera's temperature above 15 deg C or so, you should be able to prevent condensation in all but the most humid conditions.
>>
>>73 de Mark N9XTN
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>>Yahoo! Groups Links
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4288. Re: [GPSL] moisture on camera lens

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 13:23:59 UTC
From: PAUL VERHAGE
Topic: 4284 Message: 4288
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4289. GSPL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 18:57:41 UTC
From: Tim Reid
Topic: 4289 Message: 4289

Hey GPSL attendees,

Can I get a "sound-off" from the different teams as to what colors they are using?

I forgot to ask for this earlier, and I haven't been keeping track (sorry :os)

I know that Near Space Ventures are using light blue.

What colors is everyone else using?

TIA

Tim

4290. Re: [GPSL] GSPL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 19:00:44 UTC
From: PAUL VERHAGE
Topic: 4289 Message: 4290
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4291. Re: [GPSL] GPSL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 19:01:49 UTC
From: Mark Conner
Topic: 4289 Message: 4291
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4292. RE: [GPSL] GPSL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 19:23:42 UTC
From: Earl Foster
Topic: 4289 Message: 4292

I do not understand the question. Can someone elaborate?

To: GPSL@yahoogroups.comFrom: mconner1@...: Tue, 20 May 2008 14:01:49 -0500Subject: Re: [GPSL] GPSL team tshirt colors

NSTAR will have orange.
73 de Mark N9XTN----- Original Message ----- From: Tim Reid <kd0cfe@...> Date: Tuesday, May 20, 2008 1:57 pm Subject: [GPSL] GSPL team tshirt colors To: GPSL@yahoogroups.com > Hey GPSL attendees, > > Can I get a "sound-off" from the different teams as to what colors > they are using? > > I forgot to ask for this earlier, and I haven't been keeping track > (sorry :os) > > I know that Near Space Ventures are using light blue. > > What colors is everyone else using? > > TIA > > Tim > > > >

_____
Keep your kids safer online with Windows Live Family Safety.
http://www.windowslive.com/family_safety/overview.html?ocid=TXT_TAGLM_WL_Refresh_family_safety_052008

4293. RE: [GPSL] GPSL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 19:30:58 UTC
From: gregwilliams@knology.net
Topic: 4289 Message: 4293

UTARC will be wearing orange as well.

Greg

On Tue May 20 15:23 , Earl Foster <ebf306@...> sent:

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>I do not understand the question. Can someone elaborate?
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>To: GPSL@yahoogroups.com
>From: mconner1@...
>Date: Tue, 20 May 2008 14:01:49 -0500
>Subject: Re: [GPSL] GPSL team tshirt colors
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>
>NSTAR will have orange.
>
>73 de Mark N9XTN

>
>----- Original Message -----
>From: Tim Reid <kd0cfe@...>
>Date: Tuesday, May 20, 2008 1:57 pm
>Subject: [GPSL] GSPL team tshirt colors
>To: GPSL@...m
>
>> Hey GPSL attendees,
>>
>> Can I get a "sound-off" from the different teams as to what colors
>> they are using?
>>
>> I forgot to ask for this earlier, and I haven't been keeping track
>> (sorry :os)
>>
>> I know that Near Space Ventures are using light blue.
>>
>> What colors is everyone else using?
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>> TIA
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>Keep your kids safer online with Windows Live Family Safety. Help protect your kids.
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4294. Re: [GPSL] GPSL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 19:43:49 UTC
From: Roger Hammond
Topic: 4289 Message: 4294
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4295. Re: [GPSL] GPSL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 19:44:20 UTC
From: Harry M
Topic: 4289 Message: 4295

I will be wearing my standard ORB yellow shirt.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

4296. RE: [GPSL] GSPL team tshirt colors

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 20:45:16 UTC
From: Nick Hanks
Topic: 4289 Message: 4296

EOSS is using dark blue.

Nick

EOSS

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Tim Reid
Sent: Tuesday, May 20, 2008 12:58
To: GPSL@yahoogroups.com
Subject: [GPSL] GSPL team tshirt colors

Hey GPSL attendees,

Can I get a "sound-off" from the different teams as to what colors they are using?

I forgot to ask for this earlier, and I haven't been keeping track (sorry :os)

I know that Near Space Ventures are using light blue.

What colors is everyone else using?

TIA

Tim

4297. FLASH: ARHAB altitude record broken

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 21:33:29 UTC
From: Ralph Wallio, W0RPK
Topic: 4297 Message: 4297

Cornell University flight PBH-7 has broken our ARHAB altitude record with burst at 125,449 ft (38237
m) using a 4000g balloon lifting KC2SMP-2 on 144.390. See http://eyeinthesky.dyndns.org/ which will
be updated ASAP.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4298. Re: [GPSL] FLASH: ARHAB altitude record broken

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-20 21:55:05 UTC
From: Joe
Topic: 4297 Message: 4298

AWESOME JOB GUYS!

That is going to be hard to beat!

Ralph Wallio, W0RPK wrote:

>Cornell University flight PBH-7 has broken our ARHAB altitude record with burst at 125,449 ft (38237
>m) using a 4000g balloon lifting KC2SMP-2 on 144.390. See http://eyeinthesky.dyndns.org/ which will
>be updated ASAP.
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>http://showcase.netins.net/web/wallio/
>Hubbert's Peak - The Mother of all Perfect Storms
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4299. Re: dxg-506v

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-21 00:37:46 UTC
From: BASE
Topic: 4299 Message: 4299

Dear Mark,

You are correct. I posted lower resolution video on
the web to save server space and decrease the download
time for users. The still photos are simply frame
grabs from the higher resolution video.

I have found the DXG-506V to be a good camera for
ballooning. With a nominal frame rate of 30 fps, I
have captured the burst sequence frames on both
flights where I had an upward pointing camera. The
continuous video capture has also allowed me to
pinpoint the burst time for student filled air
balloons, and determine the moment of payload string
failures (including the free fall on BASE 16). I
recommend the camera, with the caveat that you may
have to do some post flight card recovery and file
fixing on some videos.

Howard

--- "K. Mark Caviezel" <kmcaviezel@...> wrote:

> Howard:
> I see a rather marginal rating of this device here
>
http://www.google.com/products/catalog?client=safari&rls=en&q=DXG-506V&ie=UTF-8&oe=UTF-8&u
m=1&cid=10240177684961620015&sa=X&oi=product_result&resnum=1&ct=result&cd=1
>
> but it looks like your still photos are top quality,
> the posted video is okay. Did you post a lower
> resolution version of video to save server space?
> Do
> you recommend or recommend against use of this
> camera
> ?
>
> best regards,
>
> - Mark Caviezel
>
>
>
>
> Posted by: "BASE" basedepauw@... basedepauw
> Mon May 19, 2008 6:55 pm (PDT)

>
>
>
> Dear Joe,
>
> We have used the DXG-506V with lithium batteries on
> several flights. With a 2 Gbyte SD card, I have
> recorded movies that last about 2 hours. There have
> been some occasions where camera has not properly
> closed the file at the end of the movie (as you
> refer to as 0 byte file size with properties of 1
> Gbyte), but I have been able to recover some files
> with
> assorted card recovery programs.
>
> I have found that it is easier to recover files that
> were being written as .asf files. The .avi and .mov
> formats were harder, and in some cases, impossible
> to recover.
>
> Almost all videos, and extracted single frames, on
> our website beginning with BASE 16 were taken with
> the
> DXG cameras. You can see some examples at:
>
> http://www.depauw. edu/acad/ physics/base/
> pages/photos. asp
>
> Howard Brooks
>
>
>

4300. Re: [GPSL] FLASH: ARHAB altitude record broken

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-21 06:23:55 UTC
From: Mike Manes
Topic: 4297 Message: 4300

Ditto from EOSS!
This is also gonna trim the list of suitable GPS engines. The workhorse
Rockwell Jupiter tops out at 40,000m (about 130K').
73 de Mike W5VSI,EOSS

Joe wrote:
> AWESOME JOB GUYS!
>
> That is going to be hard to beat!
>
> Ralph Wallio, W0RPK wrote:
>
>> Cornell University flight PBH-7 has broken our ARHAB altitude record with burst at
125,449 ft (38237
>> m) using a 4000g balloon lifting KC2SMP-2 on 144.390. See
http://eyeinthesky.dyndns.org/ which will
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>> TNX es 73 de Ralph Wallio, WØRPK
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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4301. RE: [GPSL] FLASH: ARHAB altitude record broken

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-21 07:10:45 UTC
From: Rick von Glahn
Topic: 4297 Message: 4301

WOW, congrats to Cornell for breaking the long standing record.

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Ralph Wallio, W0RPK
> Sent: Tuesday, May 20, 2008 3:33 PM
> To: GPSL
> Subject: [GPSL] FLASH: ARHAB altitude record broken
>
> Cornell University flight PBH-7 has broken our ARHAB altitude record
> with burst at 125,449 ft (38237
> m) using a 4000g balloon lifting KC2SMP-2 on 144.390. See
> http://eyeinthesky.dyndns.org/ which will
> be updated ASAP.
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> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@...t W0RPK@... W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
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> Yahoo! Groups Links
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> No virus found in this incoming message.
> Checked by AVG.
> Version: 8.0.100 / Virus Database: 269.23.21/1456 - Release Date:
> 5/20/2008 6:45 AM

4302. RE: [GPSL] FLASH: ARHAB altitude record broken

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-21 12:50:52 UTC
From: Patterson, David
Topic: 4297 Message: 4302

Major congratulations from Taylor University's High Altitude Research Platform Team!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Ralph Wallio, W0RPK
Sent: Tue 5/20/2008 5:33 PM
To: GPSL
Subject: [GPSL] FLASH: ARHAB altitude record broken

Cornell University flight PBH-7 has broken our ARHAB altitude record with burst at 125,449 ft (38237
m) using a 4000g balloon lifting KC2SMP-2 on 144.390. See http://eyeinthesky.dyndns.org/ <http://eyeinthesky.dyndns.org/> which will
be updated ASAP.

TNX es 73 de Ralph Wallio, WØRPK
W0RPK@... <mailto:W0RPK%40netINS.net> W0RPK@... <mailto:W0RPK%40arrl.net> W0RPK@... <mailto:W0RPK%40amsat.org>
http://showcase.netins.net/web/wallio/ <http://showcase.netins.net/web/wallio/>
Hubbert's Peak - The Mother of all Perfect Storms

4303. Bad Gas?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 00:46:24 UTC
From: Brek Brixius
Topic: 4303 Message: 4303

We have started thinking about our second flight (if / when) that happens. Anyhow, I thought it might be nice to have some helium around so I stopped at the local supplier and asked for a T tank of helium. They only had one tank of helium and it was kind of a take it or leave it situation so I took it. I think it is only a K tank and that is marked "balloon grade".

I remember a thread a long while back saying that Balloon Grade is not desirable. I emailed the manufacturer to inquire about the purity. They won't certify it but they tell me that the gas I have should be about 97.5% helium and the balance plain old air.

As I think about it, it seems like as long as the gas I put in the balloon will lift the load plus extra lift we are OK. It also seems that in order to get to that load plus amount I am going to be adding more gas than I would if it were actual pure helium. That other gas will expand like the helium does under lower atmospheric pressure. Since the balloon will only take so much pressure before it bursts, the overall result is lower altitude.

Is that correct or, is there some other reason why the Balloon Grade gas is bad gas?

Thanks
Brek - KC0YOE

4304. Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 00:47:17 UTC
From: Keith Kaiser
Topic: 4304 Message: 4304

NSV wants to order some magnetic signs for our cars that we would use during a balloon recovery. We are interested in what verbiage others have used on their signs, send what you've done to the list so we all can learn.

Thanks.

4305. Can Peeps Fly?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 01:33:25 UTC
From: Kent Ochs
Topic: 4305 Message: 4305

Yes, Peeps can fly. Please follow the link below for a nicely edited video produced by the Adler group.

http://www.youtube.com/watch?v=ygpYWzKGN6c

Kent Ochs
W9KAO

4306. Re: [GPSL] Bad Gas?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 02:10:56 UTC
From: Mark Conner
Topic: 4303 Message: 4306
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4307. Re: [GPSL] Can Peeps Fly?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 02:14:02 UTC
From: Joe
Topic: 4305 Message: 4307

Nice video, what did you guys use for the recorder.

And a question, did it land ok? it looked like in the PBC that a line
got fouled with the peep. and the whole system was coming down sideways.

Joe

Kent Ochs wrote:

>Yes, Peeps can fly. Please follow the link below for a nicely edited
>video produced by the Adler group.
>
>http://www.youtube.com/watch?v=ygpYWzKGN6c
>
>Kent Ochs
>W9KAO
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>Yahoo! Groups Links
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4308. RE: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 02:14:09 UTC
From: Earl Foster
Topic: 4304 Message: 4308

I place (3) 8.5"x11" magnetic signs on my truck (Driver side, Passenger side, Back) during the recovery. It includes 3 lines of text and my logo. I made my own with Avery magnetic paper and stick-on's. The magnetic paper was too think for my printer so I printed on the Avery full sheet stick-on paper and stuck it on the magnets. Works great, $20.00 for 3 signs.

Top Line reads "Chase Vehicle"
Below that is my logo
Second line reads "Amateur Radio"
Third line reads "High Altitude Photographic Balloon"

I have had good responses from by-passers and Park rangers because they could figure out what I was doing without me telling them.
Avery magnet paper: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB01&node=10210841&productcode=3270
Avery Stickers: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB01&node=10210893&productcode=3383

Earl

To: GPSL@yahoogroups.comFrom: keith.kaiser@...: Wed, 21 May 2008 19:47:17 -0500Subject: [GPSL] Balloon Recovery Sign

NSV wants to order some magnetic signs for our cars that we would use during a balloon recovery. We are interested in what verbiage others have used on their signs, send what you've done to the list so we all can learn.Thanks.

E-mail for the greater good. Join the i’m Initiative from Microsoft.
http://im.live.com/Messenger/IM/Join/Default.aspx?source=EML_WL_ GreaterGood

4309. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 02:58:14 UTC
From: Keith Kaiser
Topic: 4304 Message: 4309

Thanks, I especially like the idea of making your own.

On May 21, 2008, at 9:14 PM, Earl Foster wrote:

> I place (3) 8.5"x11" magnetic signs on my truck (Driver side,
> Passenger side, Back) during the recovery. It includes 3 lines of
> text and my logo. I made my own with Avery magnetic paper and stick-
> on's. The magnetic paper was too think for my printer so I printed
> on the Avery full sheet stick-on paper and stuck it on the magnets.
> Works great, $20.00 for 3 signs.
>
> Top Line reads "Chase Vehicle"
> Below that is my logo
> Second line reads "Amateur Radio"
> Third line reads "High Altitude Photographic Balloon"
>
> I have had good responses from by-passers and Park rangers because
> they could figure out what I was doing without me telling them.
>
> Avery magnet paper: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB0
1&node=10210841&productcode=3270
> Avery Stickers: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB01&no
de=10210893&productcode=3383
>
> Earl
>
>
>
>
>
>
> To: GPSL@yahoogroups.com
> From: keith.kaiser@...
> Date: Wed, 21 May 2008 19:47:17 -0500
> Subject: [GPSL] Balloon Recovery Sign
>
> NSV wants to order some magnetic signs for our cars that we would use
> during a balloon recovery. We are interested in what verbiage others
> have used on their signs, send what you've done to the list so we all
> can learn.
>
> Thanks.
>
>
> E-mail for the greater good. Join the i’m Initiative from Microsoft.

>
>

4310. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 03:04:55 UTC
From: Harry M
Topic: 4304 Message: 4310

Hi Earl,

Do you happen to have the Avery numbers for the paper and stick-ons? Do you print in color with an ink jet and if you do, do you coat the image with a fixative?

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

4311. RE: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 03:58:55 UTC
From: Patterson, David
Topic: 4304 Message: 4311

In addition to our logo and team name, our signs read "Tracking and Recovery Team."

- David Patterson
dvpatterson@... <mailto:dvpatterson@tayloru.edu>
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of Keith Kaiser
Sent: Wed 5/21/2008 8:47 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Balloon Recovery Sign

NSV wants to order some magnetic signs for our cars that we would use during a balloon recovery. We are interested in what verbiage others have used on their signs, send what you've done to the list so we all can learn.

Thanks.

4312. RE: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 04:06:17 UTC
From: Earl Foster
Topic: 4304 Message: 4312

Harry,

I used an inkjet and printed in color. My logo has to be in color ;)

Avery magnet paper: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB01&node=10210841&productcode=3270Avery White Stickers: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB01&node=10210893&productcode=3383
Avery Clear Stickers: http://www.avery.com/us/Main?action=product.Details&catalogcode=WEB01&node=10210893&productcode=4383I did not cover my with anything but you could use the clear avery stickers instead of the white. Ten sheets come to a pack so you could print on a clear sticker, stick it the magnet paper which is white, then stick another clear sticker over that.

I tried to print directly on the magnetic paper but my older inkjet could not handle the heavy paper. Depending on your printer you might be able to use just the magnet paper.

Earl

To: GPSL@yahoogroups.comFrom: hhm_74115@...: Wed, 21 May 2008 22:04:55 -0500Subject: Re: [GPSL] Balloon Recovery Sign

Hi Earl,

Do you happen to have the Avery numbers for the paper and stick-ons? Do you print in color with an ink jet and if you do, do you coat the image with a fixative?

73 Harry

-----Harry Mueller - KC5TRB - TulsaOklahoma Research BalloonsHome Page - http://members.cox.net/hhm_74775/orb/Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join-----

_____
Keep your kids safer online with Windows Live Family Safety.
http://www.windowslive.com/family_safety/overview.html?ocid=TXT_TAGLM_WL_Refresh_family_safety_052008

4313. Re: [Ballooning] Parachutes

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 05:44:33 UTC
From: Mike Manes
Topic: 4313 Message: 4313

That much junk hanging off the 'chute apex can make for a real
interesting trip down to the tropopause - or below.

73 de Mike W5VSI, EOSS

BASE wrote:
> Dear Joe and Mark,
>
> Do you return the balloon remnant with your payloads,
> or do you cut away from the balloon?
>
> We bring most of the balloon back down to the ground.
> Typically 75-80% of the balloon returns. For the
> Kaymont 1500 gram balloons, I have had as much as 1300
> grams return.
>
> Just curious,
> Howard
> --- Joe <nss@...> wrote:
>
>> Hi Mark,
>>
>> Just wonderimng what you call as light?
>> I also have done the same thing. Light like under
>> 2 pounds we just had
>> a large 2 or 3 foor circle of the styrofoam, cane
>> down nice and slow.
>>
>> Joe NSS
>>
>> K. Mark Caviezel wrote:
>>
>>> Paul: I am somewhat alone in my preference for not
>>> using parachutes for light payloads. I prefer to
>>> package payloads in a bunch of styrofoam configured
>>> like a pre-deployed aero decellerator.
>>> Advantages: Weight is usually less than a
>> parachute,
>>> cost is usually less, too. And the possibility of
>>> tangling is nil. And in the event of landing in an
>>> area with high winds, the potentially damaging drag
>>> across the field until stuck to the barb wire fence
>> is
>>> normally averted too. Plus many payloads have been
>>> noted to separate from the parachute during descent

>> so
>>> it makes sense to minimize the ballistic
>> co-efficient
>>> anyway for safety's sake anyway.
>>> Drawback: it is unconventional.
>>>
>>> best regards,
>>>
>>> - Mark Caviezel ng0x
>>>
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>>> Parachutes
>> Posted
>>> by: "Paul Finch"
>>> dpaulfinch@...
>>
>>> wb5idm Wed May
>> 21,
>>> 2008 7:01 am (PDT) Hello,
>>>
>>> Would like to ask what most people are using for
>>> parachutes? Has anyone
>>> tried the chutes from Rocketman?
>>>
>>> ------------------------------------
>>>
>>> To start sending messages to members of this group,
>>> simply send email to
>>>
>>> Ballooning@yahoogroups.com
>>>
>>> If you do not wish to belong to Ballooning, you may
>>> unsubscribe by sending an email to
>>>
>>> Ballooning-unsubscribe@yahoogroups.com
>>>
>>> You may also visit the eGroups web site to modify
>> your
>>> subscriptions:
>>>
>>> http://groups.yahoo.com/group/Ballooning
>>>
>>> To email the list Owner, just send a message to the
>>> following address:

>>>
>>> Ballooning-owner@yahoogroups.com
>>>
>>>
>>> Regards,
>>>
>>> Moderator, Ballooning
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>>> Yahoo! Groups Links
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> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>

> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4314. Re: [GPSL] Bad Gas?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 06:32:53 UTC
From: Mike Manes
Topic: 4303 Message: 4314

Hi Brek,

ANSR's first flight suffered from the same problem. They dumped an entire tank into a 1200 and still didn't get the tare weight off the deck. Flew it anyway, since they had no more gas, and clipped off tail end charlie on a tree top during the launch. Turns out they also had inadvertently got "balloon gas" which was 60% N2 and 40% He, IIRC, or vice-versa.

Balloon gas is great for party balloons, since they stay inflated, if not buoyant, for a long time due the slower perfusion of N2 thru the latex skin. But NG for what we do. You'll need a lot more volume of balloon gas - like 2x - to get the lift you need, so a single T bottle isn't likely to get you off the deck, or a proper ascent rate.

97.5% He is welding grade, and it oughta do fine +/- 2.5 %.

73 de Mike W5VSI

Brek Brixius wrote:
> We have started thinking about our second flight (if / when) that
> happens. Anyhow, I thought it might be nice to have some helium around
> so I stopped at the local supplier and asked for a T tank of helium.
> They only had one tank of helium and it was kind of a take it or leave
> it situation so I took it. I think it is only a K tank and that is
> marked "balloon grade".
>
> I remember a thread a long while back saying that Balloon Grade is not
> desirable. I emailed the manufacturer to inquire about the purity.
> They won't certify it but they tell me that the gas I have should be
> about 97.5% helium and the balance plain old air.
>
> As I think about it, it seems like as long as the gas I put in the
> balloon will lift the load plus extra lift we are OK. It also seems
> that in order to get to that load plus amount I am going to be adding
> more gas than I would if it were actual pure helium. That other gas
> will expand like the helium does under lower atmospheric pressure.
> Since the balloon will only take so much pressure before it bursts, the
> overall result is lower altitude.
>
> Is that correct or, is there some other reason why the Balloon Grade gas
> is bad gas?
>
> Thanks
> Brek - KC0YOE
>
>

>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4315. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 13:00:06 UTC
From: Harry M
Topic: 4304 Message: 4315

Thanks for the numbers Earl. The reason I asked about the fixative is the inkjet ink is water soluble and if you happen to traverse some water enroute it can make a mess of the print. I use inkjet for all my color payload signs and either cover them with clear Krylon or clear packing tape. For my for mono signs I use a B&W laser printer. I also have an old printer and I'll have to see if it will accept the thicker paper.

Thanks again!

73 Harry

> I used an inkjet and printed in color. My logo has to be in color ;)

4316. Re: [GPSL] Can Peeps Fly?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 15:55:19 UTC
From: Mark Garrett
Topic: 4305 Message: 4316

Not the first time a peep has flown in space, NASA had a whole box of them on one of their missions. I did notice that the peep sparkled as the sun glinted off of it. Must have been some real good adhesive on that guy.
Mark SZX

----- Original Message ----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Wednesday, May 21, 2008 9:14:02 PM
Subject: Re: [GPSL] Can Peeps Fly?

Nice video, what did you guys use for the recorder.

And a question, did it land ok? it looked like in the PBC that a line
got fouled with the peep. and the whole system was coming down sideways.

Joe

Kent Ochs wrote:

>Yes, Peeps can fly. Please follow the link below for a nicely edited
>video produced by the Adler group.
>
>http://www.youtube. com/watch? v=ygpYWzKGN6c
>
>Kent Ochs
>W9KAO
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4317. Re: [GPSL] Can Peeps Fly?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 23:15:11 UTC
From: Mike Manes
Topic: 4305 Message: 4317

EOSS flew some marshmallows for Steve's K0SCC son. We saw them plump up to about 125% while enroute to 50K', then no further change. But on descent, they crumpled up and looked like an old man's face. On recovery, they were were pretty hard to the touch. The Peeps apparently evaded this premature aging effect :=}.

73 de Mike W5VSI

Kent Ochs wrote:
> Yes, Peeps can fly. Please follow the link below for a nicely edited
> video produced by the Adler group.
>
> http://www.youtube.com/watch?v=ygpYWzKGN6c
>
> Kent Ochs
> W9KAO
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4318. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 23:18:54 UTC
From: Mike Manes
Topic: 4304 Message: 4318

Hi Harry,

I tried clear Krylon on an IJP label, and it just made the ink run.
I think there's a better fixative used by commercial artistes & the ilk.

73 de Mike W5VSI

Harry M wrote:
> Thanks for the numbers Earl. The reason I asked about the fixative is the
> inkjet ink is water soluble and if you happen to traverse some water enroute
> it can make a mess of the print. I use inkjet for all my color payload signs
> and either cover them with clear Krylon or clear packing tape. For my for
> mono signs I use a B&W laser printer. I also have an old printer and I'll
> have to see if it will accept the thicker paper.
>
> Thanks again!
>
> 73 Harry
> -----
>
>
>> I used an inkjet and printed in color. My logo has to be in color ;)
>
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4319. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 22:24:44 UTC
From: Joe
Topic: 4304 Message: 4319

Hi Mike,

No you did it right, but ya have to do it slowly.

we do it on all our payload labeling.

print it out

trim as needed
spray a THIN dusting, (paper is laying flat)
when dry flip over do back side,

repeat as many times as need letting each coat dry, and applying a
heavier coat each time too.
It eventually gets like a plastic and the paper itself is impregnated
with the clear coat and is semi translucent too.

Joe NSS

Mike Manes wrote:

>Hi Harry,
>
>I tried clear Krylon on an IJP label, and it just made the ink run.
>I think there's a better fixative used by commercial artistes & the ilk.
>
>73 de Mike W5VSI
>
>Harry M wrote:
>
>
>>Thanks for the numbers Earl. The reason I asked about the fixative is the
>>inkjet ink is water soluble and if you happen to traverse some water enroute
>>it can make a mess of the print. I use inkjet for all my color payload signs
>>and either cover them with clear Krylon or clear packing tape. For my for
>>mono signs I use a B&W laser printer. I also have an old printer and I'll
>>have to see if it will accept the thicker paper.
>>
>>Thanks again!
>>
>>73 Harry
>>-----
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>>>I used an inkjet and printed in color. My logo has to be in color ;)

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4320. helium... shards cut away... bouyancy dominated descents

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 22:41:15 UTC
From: K. Mark Caviezel
Topic: 4320 Message: 4320

RE Bad Gas?
It always pays off to get a straight answer on what is really in the bottle. I recently heard from a manned gas balloon pilot that the ~98% pure crude helium (his term) which used to be used in manned gas balloons was discontinued because the market was low. Most other uses of helium can not well tolerate the impurities in crude helium.
I also recently heard a report of a bunch of seemingly randomly filled helium K bottles in a 12-pack assembly which yielded appreciably less helium than they were supposed to. This was also for manned gas balloon flight and luckily they had just enough to make a good flight.
I almost always 'gauge' my bottles.

BASE wrote:
> Dear Joe and Mark,
>
> Do you return the balloon remnant with your payloads,
> or do you cut away from the balloon?
Howard: I never fly latex balloons. Sometimes I'll do cut away from a plastic floater. Other times I'll have a very elegant bouyancy dominated descent. Still trying to figure out why the big guys don't use bouyancy dominated descents. And still other times, with black plastic solar balloons, there is no flight termination other than the sun going down, which is pretty reliable. This is not really a buoyancy dominated descent, but it is similar. I am still trying to figure out the descent rate of my last solar balloon, but it was quite a bit slower and projected as it was found about 50 miles south of where I thought it would come down.

best

- Mark ng0x

4321. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 23:12:49 UTC
From: Harry M
Topic: 4304 Message: 4321

Hey Mike,

I used to use the photography fixative when doing my own prints. It costs 2-3 times more than Krylon and is the same base. The fixative is thinner than Krylon so the trick is to use thin coats of Krylon. I had the same problem you speak of early on.

73 Harry

4322. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-22 23:13:38 UTC
From: Harry M
Topic: 4304 Message: 4322

Right on, Joe!

4323. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 00:54:29 UTC
From: Mike Manes
Topic: 4304 Message: 4323

Well, our labels are small enough that they fit under a single strip
of clear shipping tape. Fast, simple and works great. Just have to
breathe on the tape to kill the static charge before laying it over the
label - otherwise the label jumps off where it's supposed to be.

I may have held the spray nozzle too close to the work so it was pretty
wet when it hit - work was laying flat, but the first shot made the ink
bleed out laterally into the paper. Mebbe it was HP DeskJet ink? Or the
paper?

73 de Mike W5VSI

Joe wrote:
> Hi Mike,
>
> No you did it right, but ya have to do it slowly.
>
> we do it on all our payload labeling.
>
> print it out
>
> trim as needed
> spray a THIN dusting, (paper is laying flat)
> when dry flip over do back side,
>
> repeat as many times as need letting each coat dry, and applying a
> heavier coat each time too.
> It eventually gets like a plastic and the paper itself is impregnated
> with the clear coat and is semi translucent too.
>
> Joe NSS
>
> Mike Manes wrote:
>> Hi Harry,
>>
>> I tried clear Krylon on an IJP label, and it just made the ink run.
>> I think there's a better fixative used by commercial artistes & the ilk.
>>
>> 73 de Mike W5VSI
>>
>> Harry M wrote:
>>
>>> Thanks for the numbers Earl. The reason I asked about the fixative is the
>>> inkjet ink is water soluble and if you happen to traverse some water enroute
>>> it can make a mess of the print. I use inkjet for all my color payload signs
>>> and either cover them with clear Krylon or clear packing tape. For my for

>>> mono signs I use a B&W laser printer. I also have an old printer and I'll
>>> have to see if it will accept the thicker paper.
>>>
>>> Thanks again!
>>>
>>> 73 Harry
>>> -----
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>>>> I used an inkjet and printed in color. My logo has to be in color ;)
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>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4324. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 00:57:56 UTC
From: Mike Manes
Topic: 4304 Message: 4324

OK - so sez Joe.
73 de Mike W5VSI

Harry M wrote:
> Hey Mike,
>
> I used to use the photography fixative when doing my own prints. It
> costs 2-3 times more than Krylon and is the same base. The fixative is
> thinner than Krylon so the trick is to use thin coats of Krylon. I had
> the same problem you speak of early on.
>
> 73 Harry
>
> -----
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4325. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 00:36:12 UTC
From: Joe
Topic: 4304 Message: 4325

Hi mike,

I tried this also, with limited success. even with the edges sealed
like tape to tape, fopr some reason we had the ink run badly,

Don't know why. so if it's a color picturte label we do the spray
sealing thing, now if it's Black & white, we use a copy machine,
firsr, the ink will never run from that since the color is actually
melted plastic.

we still seal the paper with the clear spray anyway to help the paper
hold together if it gets tottally wet
>
.

joe

Mike Manes wrote:

>Well, our labels are small enough that they fit under a single strip
>of clear shipping tape. Fast, simple and works great. Just have to
>breathe on the tape to kill the static charge before laying it over the
>label - otherwise the label jumps off where it's supposed to be.
>
>I may have held the spray nozzle too close to the work so it was pretty
>wet when it hit - work was laying flat, but the first shot made the ink
>bleed out laterally into the paper. Mebbe it was HP DeskJet ink? Or the
>paper?
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>Hi Mike,
>>
>>No you did it right, but ya have to do it slowly.
>>
>>we do it on all our payload labeling.
>>
>>print it out
>>
>>trim as needed
>>spray a THIN dusting, (paper is laying flat)
>> when dry flip over do back side,
>>

>>repeat as many times as need letting each coat dry, and applying a
>>heavier coat each time too.
>>It eventually gets like a plastic and the paper itself is impregnated
>>with the clear coat and is semi translucent too.
>>
>>Joe NSS
>>
>>Mike Manes wrote:
>>
>>
>>>Hi Harry,
>>>
>>>I tried clear Krylon on an IJP label, and it just made the ink run.
>>>I think there's a better fixative used by commercial artistes & the ilk.
>>>
>>>73 de Mike W5VSI
>>>
>>>Harry M wrote:
>>>
>>>
>>>
>>>>Thanks for the numbers Earl. The reason I asked about the fixative is the
>>>>inkjet ink is water soluble and if you happen to traverse some water enroute
>>>>it can make a mess of the print. I use inkjet for all my color payload signs
>>>>and either cover them with clear Krylon or clear packing tape. For my for
>>>>mono signs I use a B&W laser printer. I also have an old printer and I'll
>>>>have to see if it will accept the thicker paper.
>>>>
>>>>Thanks again!
>>>>
>>>>73 Harry
>>>>-----
>>>>
>>>>
>>>>
>>>>
>>>>
>>>>>I used an inkjet and printed in color. My logo has to be in color ;)
>>>>>
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>>>>>------------------------------------
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>>>>>Yahoo! Groups Links
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4326. Windsor CO "StratoRanch" status

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 02:13:40 UTC
From: Mike Manes
Topic: 4326 Message: 4326

Hi,

Some of you have inquired about Gene Fatton's place near Windsor CO in light of the tornado that hit that town this afternoon.

Well, Gene & I are are on the phone as we speak chatting about swamp cooler maintenance. Gene did take cover at his workplace at FNL airport, but it didn't even blow over his trash cans. He did go into town and reports that things are pretty torn up at the east end of town. There are more first responders than they know what to do with.

Gene's uWave ISP in Windsor is down due to power outage, but his power is OK now.

Just got a real-time NWS alert update: the tornado watch for E central CO is cancelled - and now we're talking about surplus Al honeycomb.

So the good news is the StratoRanch is in fine shape, as is the Fatton clan.

73 de Mike W5VSI
CTO EOSS
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4327. Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 13:17:42 UTC
From: Mark Conner
Topic: 4327 Message: 4327
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4328. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 18:35:24 UTC
From: Harry M
Topic: 4304 Message: 4328

Earl,

I bought 5 - 8.5" x 11" x .3mm sheets at Office depot fo 15$ yesterday. They are white sheets. I printed my Race Car class letters (4")/numbers (8") using my B&W laser printer. Other than a couple smudges that came off with lighter fluid, they look great! I haven't tried printing on them with my old HP. I measured my Skywarn stickers and they are 1mm thick and have a lot more holding power. A good test of these thin ones will be this weekend. I'll be racing so I'll see if they stay on at 100+ mph. That is a normal balloon chase speed, RIGHT? :)

Flying Low!

4329. Fairfield Inn WiFi

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-23 21:23:56 UTC
From: Harry M
Topic: 4329 Message: 4329

FYI

I spoke with Ann at the Fairfield Inn and she said they SHOULD have WiFi before GPSL.
The pool will be closed, but the pools at the two hotels across the street will be open for Fairfield guests.

hhm

4330. Re: [GPSL] Fairfield Inn WiFi

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-24 00:33:19 UTC
From: kb0yrz@yahoo.com
Topic: 4329 Message: 4330

Are you going to the EOSS meeting in june at intrado?

--- Original Message ---
From:"Harry M" <hhm_74115@...>
Sent:Fri 5/23/08 3:24 pm
To:<GPSL@yahoogroups.com>
Subj:[GPSL] Fairfield Inn WiFi

FYI

I spoke with Ann at the Fairfield Inn and she said they SHOULD have WiFi before GPSL.
The pool will be closed, but the pools at the two hotels across the street will be open for Fairfield guests.

hhm

4331. Re: [GPSL] Fairfield Inn WiFi

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-24 00:33:20 UTC
From: kb0yrz@yahoo.com
Topic: 4329 Message: 4331

Cool thanx for the update. Hay, are you going to the EOSS meeting in june at Intrado?

--- Original Message ---
From:"Harry M" <hhm_74115@...>
Sent:Fri 5/23/08 3:24 pm
To:<GPSL@yahoogroups.com>
Subj:[GPSL] Fairfield Inn WiFi

FYI

I spoke with Ann at the Fairfield Inn and she said they SHOULD have WiFi before GPSL.
The pool will be closed, but the pools at the two hotels across the street will be open for Fairfield guests.

hhm

4332. hello

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-24 14:07:05 UTC
From: Luis Eduardo Pacheco
Topic: 4332 Message: 4332
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4333. Re: [GPSL] Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-24 22:53:07 UTC
From: Mike Manes
Topic: 4327 Message: 4333

Well, there goes 108,000 cuft of Helium ... enough for over 200 @ 3000 gm balloons. Sure hope M. Fournier is successful!
73 de Mike W5VSI

Mark Conner wrote:
> http://www.legrandsaut.org/index.php?Message=main&lang=eng
> <http://www.legrandsaut.org/index.php?Message=main&lang=eng>
>
> This is Michel Fournier's attempt to beat Joe Kittinger's record - now
> appears to be scheduled for Sunday the 25th.
>
> 73 de Mark N9XTN
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4334. Re: [GPSL] Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-24 21:56:13 UTC
From: Joe
Topic: 4327 Message: 4334

Holy COW!

How much does this thing weigh? i know HE has a smaller lift than H2
but like WOW that's over 4 TONS of lift!! what is his launch platform
? A Winnebago!?

Joe

Mike Manes wrote:

>Well, there goes 108,000 cuft of Helium ... enough for over 200 @ 3000 gm
>balloons. Sure hope M. Fournier is successful!
>73 de Mike W5VSI
>
>Mark Conner wrote:
>
>
>>http://www.legrandsaut.org/index.php?Message=main&lang=eng
>><http://www.legrandsaut.org/index.php?Message=main&lang=eng>
>>
>>This is Michel Fournier's attempt to beat Joe Kittinger's record - now
>>appears to be scheduled for Sunday the 25th.
>>
>>73 de Mark N9XTN
>>
>>
>>
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4335. Re: [GPSL] Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-25 00:30:00 UTC
From: Mike Manes
Topic: 4327 Message: 4335

The answers to those questions and more are under the "Equipment" button
on the web site. IIRC, the balloon envelope weighs 2000 lb and the
gondola complete with pilot in a space suit is over 1000 lb.

73 de Mike W5VSI

Joe wrote:
> Holy COW!
>
> How much does this thing weigh? i know HE has a smaller lift than H2
> but like WOW that's over 4 TONS of lift!! what is his launch platform
> ? A Winnebago!?
>
> Joe
>
> Mike Manes wrote:
>> Well, there goes 108,000 cuft of Helium ... enough for over 200 @ 3000 gm
>> balloons. Sure hope M. Fournier is successful!
>> 73 de Mike W5VSI
>>
>> Mark Conner wrote:
>>
>>> http://www.legrandsaut.org/index.php?Message=main&lang=eng
>>> <http://www.legrandsaut.org/index.php?Message=main&lang=eng>
>>>
>>> This is Michel Fournier's attempt to beat Joe Kittinger's record - now
>>> appears to be scheduled for Sunday the 25th.
>>>
>>> 73 de Mark N9XTN
>>>
>>>
>>>
>>>
>>>
>>
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4336. GPSL 2008 Tracker Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-25 14:32:48 UTC
From: wa8rc
Topic: 4336 Message: 4336

I want to make sure I bring the right equipment for tracking to GPSL.
Should I have UHF capability or will all units use 2 meters?

Thanks
Ron Cathcart
WA8RC
Battle Creek, MI

4337. Re: [GPSL] GPSL 2008 Tracker Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-26 01:31:10 UTC
From: Keith Kaiser
Topic: 4336 Message: 4337

All frequencies will be on 2m, I say that now but truth is it has not
been decided yet.

On May 25, 2008, at 9:32 AM, wa8rc wrote:

> I want to make sure I bring the right equipment for tracking to GPSL.
> Should I have UHF capability or will all units use 2 meters?
>
> Thanks
> Ron Cathcart
> WA8RC
> Battle Creek, MI
>
>
>

4338. Re: [GPSL] GPSL 2008 Tracker Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-26 03:11:37 UTC
From: Mike Manes
Topic: 4336 Message: 4338

Careful. With 10+ balloons in the air simultaneously and a max of 4 using
>>GPS-disciplined<< slotting on a given 2m freq, some APRS beacons and backup
beacons may have to go to 70cm. EOSS plans to fly a crossband repeater
with continuous downlink on 147.555 MHz and uplink on 445.975, plus a
backup DF beacon on an unused 2m freq.

Freq coordination for GPSL is a major PIA.

73 de Mike W5VSI, EOSS

Keith Kaiser wrote:
> All frequencies will be on 2m, I say that now but truth is it has not
> been decided yet.
>
> On May 25, 2008, at 9:32 AM, wa8rc wrote:
>
>> I want to make sure I bring the right equipment for tracking to GPSL.
>> Should I have UHF capability or will all units use 2 meters?
>>
>> Thanks
>> Ron Cathcart
>> WA8RC
>> Battle Creek, MI
>>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4339. RE: [GPSL] Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-26 17:25:37 UTC
From: Wayne Helms
Topic: 4327 Message: 4339

Anyone no the outcome of this jump?

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Saturday, May 24, 2008 7:30 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Record parachute jump attempt this weekend

The answers to those questions and more are under the "Equipment" button on the web site. IIRC, the balloon envelope weighs 2000 lb and the gondola complete with pilot in a space suit is over 1000 lb.

73 de Mike W5VSI

Joe wrote:
> Holy COW!
>
> How much does this thing weigh? i know HE has a smaller lift than H2
> but like WOW that's over 4 TONS of lift!! what is his launch platform
> ? A Winnebago!?
>
> Joe
>
> Mike Manes wrote:
>> Well, there goes 108,000 cuft of Helium ... enough for over 200 @ 3000 gm
>> balloons. Sure hope M. Fournier is successful!
>> 73 de Mike W5VSI
>>
>> Mark Conner wrote:
>>
>>> http://www.legrands
<http://www.legrandsaut.org/index.php?Message=main&lang=eng>
aut.org/index.php?Message=main&lang=eng
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aut.org/index.php?Message=main&lang=eng>
>>>
>>> This is Michel Fournier's attempt to beat Joe Kittinger's record - now
>>> appears to be scheduled for Sunday the 25th.
>>>
>>> 73 de Mark N9XTN
>>>
>>>
>>>

>>>
>>>
>>
>>
>

--
Mike Manes mrmanes@gmail. <mailto:mrmanes%40gmail.com> com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4340. Re: [GPSL] Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-26 17:30:34 UTC
From: Luis Eduardo Pacheco
Topic: 4327 Message: 4340
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4341. Re: [GPSL] Record parachute jump attempt this weekend

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 02:37:30 UTC
From: Mike Manes
Topic: 4327 Message: 4341

Per the web site linked below, there's a weather scrub to next Tues.
73 de Mike W5VSI

Wayne Helms wrote:
> Anyone no the outcome of this jump?
>
>
>
> ---
>
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *Mike Manes
> *Sent:* Saturday, May 24, 2008 7:30 PM
> *To:* GPSL@yahoogroups.com
> *Subject:* Re: [GPSL] Record parachute jump attempt this weekend
>
>
>
> The answers to those questions and more are under the "Equipment" button
> on the web site. IIRC, the balloon envelope weighs 2000 lb and the
> gondola complete with pilot in a space suit is over 1000 lb.
>
> 73 de Mike W5VSI
>
> Joe wrote:
>> Holy COW!
>>
>> How much does this thing weigh? i know HE has a smaller lift than H2
>> but like WOW that's over 4 TONS of lift!! what is his launch platform
>> ? A Winnebago!?
>>
>> Joe
>>
>> Mike Manes wrote:
>> > Well, there goes 108,000 cuft of Helium ... enough for over 200 @ 3000 gm
>> > balloons. Sure hope M. Fournier is successful!
>> > 73 de Mike W5VSI
>> >
>> > Mark Conner wrote:
>> >
>> >> http://www.legrandsaut.org/index.php?Message=main&lang=eng
> <http://www.legrandsaut.org/index.php?Message=main&lang=eng>
>> >> <http://www.legrandsaut.org/index.php?Message=main&lang=eng
> <http://www.legrandsaut.org/index.php?Message=main&lang=eng>>
>> >>

>> >> This is Michel Fournier's attempt to beat Joe Kittinger's record - now
>> >> appears to be scheduled for Sunday the 25th.
>> >>
>> >> 73 de Mark N9XTN
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> --
> Mike Manes mrmanes@... <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

4342. RE: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 13:14:23 UTC
From: Earl Foster
Topic: 4304 Message: 4342

Harry,
Just got back from camping in Beavers Bend, OK. So - Did it hold up to 100 mph racing? It held up to 70 mph during my chases.

To: GPSL@yahoogroups.comFrom: hhm_74115@...: Fri, 23 May 2008 13:35:24 -0500Subject: Re: [GPSL] Balloon Recovery Sign

Earl,

I bought 5 - 8.5" x 11" x .3mm sheets at Office depot fo 15$ yesterday. They are white sheets. I printed my Race Car class letters (4")/numbers (8") using my B&W laser printer. Other than a couple smudges that came off with lighter fluid, they look great! I haven't tried printing on them with my old HP. I measured my Skywarn stickers and they are 1mm thick and have a lot more holding power. A good test of these thin ones will be this weekend. I'll be racing so I'll see if they stay on at 100+ mph. That is a normal balloon chase speed, RIGHT? :)

Flying Low!

_____
Keep your kids safer online with Windows Live Family Safety.
http://www.windowslive.com/family_safety/overview.html?ocid=TXT_TAGLM_WL_Refresh_family_safety_052008

4343. French Skydiver's Balloon Takes Off Without Him

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 13:45:51 UTC
From: Mark Conner
Topic: 4343 Message: 4343

I'm guessing this will pretty much end the attempt.

73 de Mark N9XTN

==========

French Skydiver's Balloon Takes Off Without Him
Tuesday , May 27, 2008

NORTH BATTLEFORD, Saskatchewan —

A French skydiver's hope to set a new free-fall record might have come to an end on Tuesday when his ride to the sky left without him.

The helium balloon Michel Fournier was going to use to soar to the stratosphere detached from the capsule he was going to use to jump from 130,000 feet, about 25 miles high.

It happened after the balloon was inflated on the ground at the airport in North Battleford, Saskatchewan. The balloon drifted away into the sky without the capsule.

Fournier appeared disappointed as left the capsule and walked to the hanger. He was hugged by members of his entourage.

The balloon was reported to have cost at least $200,000 and Fournier was said to have already exhausted his finances. His handlers planned a media briefing for later Tuesday.

Fournier, 64, had planned to make the attempt Monday, but had to postpone his plans because of weather conditions.

Attempts in 2002 and 2003 ended when wind gusts shredded his balloon before it even became airborne.

Fournier hoped to break the record for the fastest and longest free fall, the highest parachute jump and the highest balloon flight. He also hopes to bring back data that will help astronauts and others survive in the highest of altitudes.

An army of technicians, data crunchers, balloon and weather specialists arrived recently in North Battleford, a city of 14,000 near the Saskatchewan-Alberta boundary, for the attempt.

Fournier had planned to make the jump in his native France, but the government denied him permission because it believed the project was too dangerous. He then came to North Battleford, an agricultural and transportation hub northwest of Saskatoon.

Spokeswoman Francine Lecompte-Gittens said Monday's postponement was due to unfavorable weather.

Fournier, a former army paratrooper with more than 8,000 jumps under his belt, planned to be three times higher than a commercial jetliner. A mountain climber would have to ascend the equivalent of four Mount Everests stacked one on top of the other.

It was expected to take Fournier 15 minutes just to come down, screaming through thin air at about 900 mph — 1.7 times the speed of sound — smashing through the sound barrier, shock waves buffeting his body, before finally deploying his chute about 6,000 yards above the prairie wheat fields.

4344. Re: [GPSL] French Skydiver's Balloon Takes Off Without Him

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 13:59:50 UTC
From: PAUL VERHAGE
Topic: 4343 Message: 4344

I've had that experience a couple of times. Fortunately, it didn't cost me $200,000.

Paul

>>> Mark Conner <mconner1@...> 5/27/2008 7:45 AM >>>
I'm guessing this will pretty much end the attempt.

73 de Mark N9XTN

==========

French Skydiver's Balloon Takes Off Without Him
Tuesday , May 27, 2008

NORTH BATTLEFORD, Saskatchewan —

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It was expected to take Fournier 15 minutes just to come down, screaming through thin air at about 900 mph — 1.7 times the speed of sound — smashing through the sound barrier, shock waves buffeting his body, before finally deploying his chute about 6,000 yards above the prairie wheat fields.

Yahoo! Groups Links

4345. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 17:42:40 UTC
From: Harry M
Topic: 4304 Message: 4345

Hey Earl,

Yep, they held on just fine. I put some double-sided scotch tape on the front and rear vertical edge of the one on the drivers side because that was the side on the flagman/starter and I wanted it to stay put. The one on the passenger door was just stuck magnetically and it stayed put. Top speed was 105 mph with a surface wind of 15-25 mph. You can see the pics here... http://www.myspace.com/kc5trb click on "View My: Pics" and then "Dodge '03 SRT-4". You'll probly have to log in to MySpace to view them. The ones I made are the black on white (last 3 pics). While you're there look at the videos. The pics and videos are Hallett 05/24/08.

* Chris (KB0YRZ) you'll appreciate the videos! ;-) *

If I decide to make color ones I'll probly take them to Kinkos and use a color laser printer.

73 Harry

> Just got back from camping in Beavers Bend, OK. So - Did it hold up to
> 100 mph racing? It held up to 70 mph during my chases.

4347. Re: [GPSL] Balloon Recovery Sign

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 18:06:13 UTC
From: Harry M
Topic: 4304 Message: 4347

TYPO!

The date of the pics & videos is 05/25/08 not 05/24/08

4348. Re: [GPSL] French Skydiver's Balloon Takes Off Without Him

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 20:56:35 UTC
From: Mike Manes
Topic: 4343 Message: 4348

Wotta bummer, and a waste of good Helium :={. And not an entirely unfamiliar event even for us bums in ARHAB, eh?

"Things should be made as light as possible, but not more so (particularly with attachments on the payload string)"

73 de Mike W5VSI

Mark Conner wrote:
> I'm guessing this will pretty much end the attempt.
>
> 73 de Mark N9XTN
>
> ==========
>
> French Skydiver's Balloon Takes Off Without Him
> Tuesday , May 27, 2008
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>

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>
> Fournier had planned to make the jump in his native France, but the government denied him permission because it believed the project was too dangerous. He then came to North Battleford, an agricultural and transportation hub northwest of Saskatoon.
>
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>
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>
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>
> ---
>
> Yahoo! Groups Links
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Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4349. Re: [GPSL] French Skydiver's Balloon Takes Off Without Him

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 20:08:25 UTC
From: Joe
Topic: 4343 Message: 4349

MAN i WONDER WHAT TH RATE OF CLIMB THAT BABY HAD.

Mike Manes wrote:

>Wotta bummer, and a waste of good Helium :={. And not an entirely unfamiliar
>event even for us bums in ARHAB, eh?
>
>"Things should be made as light as possible, but not more so (particularly
>with attachments on the payload string)"
>
>73 de Mike W5VSI
>
>Mark Conner wrote:
>
>
>>I'm guessing this will pretty much end the attempt.
>>
>>73 de Mark N9XTN
>>
>>==========
>>
>>French Skydiver's Balloon Takes Off Without Him
>>Tuesday , May 27, 2008
>>
>>
>>NORTH BATTLEFORD, Saskatchewan ?
>>
>>A French skydiver's hope to set a new free-fall record might have come to an end on
Tuesday when his ride to the sky left without him.
>>
>>The helium balloon Michel Fournier was going to use to soar to the stratosphere detached
from the capsule he was going to use to jump from 130,000 feet, about 25 miles high.
>>
>>It happened after the balloon was inflated on the ground at the airport in North
Battleford, Saskatchewan. The balloon drifted away into the sky without the capsule.
>>
>>Fournier appeared disappointed as left the capsule and walked to the hanger. He was
hugged by members of his entourage.
>>
>>The balloon was reported to have cost at least $200,000 and Fournier was said to have
already exhausted his finances. His handlers planned a media briefing for later Tuesday.
>>
>>Fournier, 64, had planned to make the attempt Monday, but had to postpone his plans
because of weather conditions.
>>

>>Attempts in 2002 and 2003 ended when wind gusts shredded his balloon before it even became airborne.
>>
>>Fournier hoped to break the record for the fastest and longest free fall, the highest parachute jump and the highest balloon flight. He also hopes to bring back data that will help astronauts and others survive in the highest of altitudes.
>>
>>An army of technicians, data crunchers, balloon and weather specialists arrived recently in North Battleford, a city of 14,000 near the Saskatchewan-Alberta boundary, for the attempt.
>>
>>Fournier had planned to make the jump in his native France, but the government denied him permission because it believed the project was too dangerous. He then came to North Battleford, an agricultural and transportation hub northwest of Saskatoon.
>>
>>Spokeswoman Francine Lecompte-Gittens said Monday's postponement was due to unfavorable weather.
>>
>>Fournier, a former army paratrooper with more than 8,000 jumps under his belt, planned to be three times higher than a commercial jetliner. A mountain climber would have to ascend the equivalent of four Mount Everests stacked one on top of the other.
>>
>>It was expected to take Fournier 15 minutes just to come down, screaming through thin air at about 900 mph ? 1.7 times the speed of sound ? smashing through the sound barrier, shock waves buffeting his body, before finally deploying his chute about 6,000 yards above the prairie wheat fields.
>>
>>----------
>>
>>Yahoo! Groups Links
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>
>

4350. Re: Been There, Done That

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 21:25:21 UTC
From: Mike Manes
Topic: 4350 Message: 4350

From the CNN video, it looks like the Huch clutch released before the lift line was attached to the parachute (if that's the orange thing Fournier's walking past towards the end of video.

http://www.cnn.com/2008/WORLD/americas/05/27/freefall.skydiver/index.html#cnnSTCVideo

BTW, the videographer gets 10 demerits for staying focused on the talking head when the balloon released.

73 de Mike W5VSI, EOSS

Nick Hanks wrote:
> Balloon “slipped away.”
>
> http://www.cnn.com/2008/WORLD/americas/05/27/freefall.skydiver/index.html
>
> Nick
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4351. Re: [GPSL] French Skydiver's Balloon Takes Off Without Him

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 21:28:38 UTC
From: Mike Manes
Topic: 4343 Message: 4351

That figure was just the price of the balloon. Cheap compared to the
4000 m^3 (108,000 cuft) of Helium required for a complete fill. You
run the numbers :={.

73 de Mike W5VSI

PAUL VERHAGE wrote:
> I've had that experience a couple of times. Fortunately, it didn't cost
> me $200,000.
>
> Paul
>
> >>> Mark Conner <mconner1@...> 5/27/2008 7:45 AM >>>
> I'm guessing this will pretty much end the attempt.
>
> 73 de Mark N9XTN
>
> ==============
>
> French Skydiver's Balloon Takes Off Without Him
> Tuesday , May 27, 2008
>
>
> NORTH BATTLEFORD, Saskatchewan —
>
> A French skydiver's hope to set a new free-fall record might have come
> to an end on Tuesday when his ride to the sky left without him.
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> The helium balloon Michel Fournier was going to use to soar to the
> stratosphere detached from the capsule he was going to use to jump from
> 130,000 feet, about 25 miles high.
>
> It happened after the balloon was inflated on the ground at the airport
> in North Battleford, Saskatchewan. The balloon drifted away into the sky
> without the capsule.
>
> Fournier appeared disappointed as left the capsule and walked to the
> hanger. He was hugged by members of his entourage.
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> said to have already exhausted his finances. His handlers planned a
> media briefing for later Tuesday.
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> postpone his plans because of weather conditions.

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> before it even became airborne.
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> fall, the highest parachute jump and the highest balloon flight. He also
> hopes to bring back data that will help astronauts and others survive in
> the highest of altitudes.
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> arrived recently in North Battleford, a city of 14,000 near the
> Saskatchewan-Alberta boundary, for the attempt.
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> government denied him permission because it believed the project was too
> dangerous. He then came to North Battleford, an agricultural and
> transportation hub northwest of Saskatoon.
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> to unfavorable weather.
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> belt, planned to be three times higher than a commercial jetliner. A
> mountain climber would have to ascend the equivalent of four Mount
> Everests stacked one on top of the other.
>
> It was expected to take Fournier 15 minutes just to come down, screaming
> through thin air at about 900 mph — 1.7 times the speed of sound —
> smashing through the sound barrier, shock waves buffeting his body,
> before finally deploying his chute about 6,000 yards above the prairie
> wheat fields.
>
> ---
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4352. Re: [GPSL] French Skydiver's Balloon Takes Off Without Him

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-27 21:20:13 UTC
From: wb8elk@aol.com
Topic: 4343 Message: 4352

Joe...I had something similar happen once with a 54,000 cubic foot zero pressure balloon....we had 150 pounds of nozzle lift and our 100 pound rocket fell off at liftoff onto the boat deck pointing at us and making a hissing sound....some of us considered jumping overboard until we realized it was the nitrous escaping safely.

The only payload attached at that point was my 10 pound ATV transmitter system and the command/control link.....150 pounds of lift with a 10 pound payload...wow, what a wild ride that was.....we were 100 miles out to sea in the Gulf of Mexico...it splashed down next to a tugboat 11 miles away and they immediately recovered it and we got it back....turned out to be from the same company of the tugboat that was towing our barge....small world even miles out to sea.

Although pricey....it was considerably less cost than $200,000.

If it was indeed a premature cutdown (we've had similar problems with both premature and non-functioning cutdowns in the past - these were commercial cutdown devices and were not cheap)....it's fortunate for him that it cut down prior to him lifting off since that could've been deadly unless he was high enough for the parachute to deploy. I remember one test I observed of a new superpressure balloon with Nylon 6 material that prematurely activated the cutdowns due to the static electricity generated by the Nylon balloon envelope.

- Bill WB8ELK

**********Get trade secrets for amazing burgers. Watch "Cooking with Tyler Florence" on AOL Food.
(http://food.aol.com/tyler-florence?video=4&?NCID=aolfod00030000000002)

4353. Fournier done in by cutaway device

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-28 15:31:48 UTC
From: Mark Conner
Topic: 4353 Message: 4353

http://www.canada.com/saskatoonstarphoenix/news/story.html?id=d286718b-065b-4bb4-b631-713f81912f2e&p=1

NORTH BATTLEFORD -- A misfiring fuse about the size of a felt pen thwarted Michel Fournier's third attempt to skydive from space, his team says.

When Fournier's massive helium balloon launched without him early Tuesday, the launch team believes a "freak accident" caused some equipment to strike the ground, triggering a small explosion and separating the balloon from the capsule and its parachutes, spokesperson Francine Gittins told a room packed full of reporters and Fournier's supporters late Tuesday afternoon.

"I'm not about to give up," Gittins translated for Fournier, the 64-year-old French adventurer who wants to freefall from 40 kilometres above Earth.

"Unexpected freak accidents do happen."

Balloon experts working on the project who have 25 to 30 years experience in the field have never seen such a problem, Gittins said.

The former French army colonel insists he will try again, likely in August in North Battleford, he said.

"If you don't believe in what you're doing, you might as well give up," Gittins translated for Fournier.

When he returns, he'll use the same balloon design and he'll bring two, despite costing $500,000 each.

"Why change then, the balloon has been tested today, and it is working great," Gittins translated for Fournier.

After Monday's launch was aborted due to wind, Tuesday's attempt seemed off to a promising start.

Shortly after 2 a.m., Fournier was tucked into his silver capsule on the tarmac at the North Battleford airport and breathing pure oxygen to prevent decompression sickness.

The sky was pristine and the tattered airport flag clung lifelessly to its pole. It was a perfect day for Fournier to freefall faster than the speed of sound and break four world records -- the highest skydive and manned balloon flight, and the longest and fastest human freefall.

At 4:11 a.m., the gush of helium from tanks on a tractor trailer was audible from hundreds of metres away.

Slowly, two tubes fed life into the top of Fournier's translucent white balloon, and 45 minutes later, it sat in a teardrop shape, clamped into a winch at the base.

Just after 5 a.m., one truck honk sounded and a small helium balloon floated into the sky. Moments later, two honks sounded, and the massive balloon was released from the spool pinning it down.

Fournier's supporters let out hurrahs: Launch time was finally here. Their glee lived for just seconds.

There was a pause as the balloon floated skyward and Fournier's capsule didn't move.

"No. It's not possible. It's not possible," a member of Fournier's team said in French.

The assembled crowd of journalists and spectators watched the adventurer's balloon undulate into the sky like a swimming jellyfish.

Half an hour later, the balloon appeared as a bright white golf tee against the blue sky; then it was a speck; then it was gone.

The Russian-made apparatus broke into pieces as it fell from the sky.

At 7:12 a.m., information was posted to Fournier's website saying his team had retrieved the balloon's shredded remains about 40 kilometres south of the Battlefords.

Ironically, it was likely just as supporters let out the jubilant cry that the fuse blew and grounded Fournier's third attempt at the stunt.

On Tuesday afternoon, French science journalist Michel Chevaler pointed to diagrams and explained how a group of mechanical parts join together to form the "flight chain." This mechanism attaches the bottom of the helium balloon to the tops of three parachutes, which are fastened to the capsule carrying Fournier.

The parts slot together but are held by a cable. Underneath the cable lie five explosive bolts that can cut that tie when detonated, Chevaler explained in French. All five are triggered in different ways, and the many options are a safety precaution, he said. The bolt that blew was one controlled by radio from the ground.

Had Fournier ballooned to the edge of the stratosphere, he would have pushed a button on a timer to set off one of those bolts, which would have separated the balloon from the capsule long after he had dived away.

Fournier became aggravated when asked what he says to suggestions he could have pushed the button himself to purposefully abort the launch.

It was like having a "hammer over his head" when he climbed out of the capsule after another failed attempt, Gittins translated for him. At several points in the media briefing, Fournier became flushed, squeezed his eyes and gulped to stop tears falling from his moist eyes.

Fournier's previous attempts at the super jump were in North Battleford in 2002 and 2003.

4354. Re: Canon A570IS for $131 & N0KKZ Intervalometer mod

Yahoo group: GPSL (2002 — 2008)
Date: 2008-05-29 05:57:03 UTC
From: Mike Manes
Topic: 4066 Message: 4354

Hi Chris,

I passed the A570 "SamCam" that Rick developed the intervalometer on back to
him this evening so he can write a CDHK script for your flight.

73 de Mike W5VSI

Christopher J Koehler wrote:
> Who can I talk to about this? I would like to ask a few questions? Please
> include a phone number if possible.
>
> Thank you.
>
> Chris Koehler
> Director
> Colorado Space Grant Consortium
> University of Colorado at Boulder
> 303-492-4750 (office) 303-378-4765 (cell)
> spacegrant.colorado.edu
>
> -----Original Message-----
> From: Mike Manes [mailto:mrmanes@...]
> Sent: Friday, March 07, 2008 9:29 PM
> To: Rick von Glahn N0KKZ; Christopher J Koehler
> Cc: GPSL Balloon Reflector
> Subject: Canon A570IS for $131 & N0KKZ Intervalometer mod
>
> Hi,
>
> The Canon A570IS that Rick installed the intervalometer CDHK software
> on can be had for $131 on the web:
>
> http://www.everyprice.com/item.asp?item_id=161824&partner=g123&keyword=canon
> _a570_digital_camera&gclid=CMvOrPDU_JECFSbHIgodSnfE3w&ZipCode=80128&submit=C
> alculate
>
> What a huge URL! You might have to piece it together.
>
> See Rick's code and dox along with a neat video at:
> http://www.eoss.org/hardware/canon_a570is.htm
> Single-button payload prep!
>
> 73 de Mike W5VSI

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

4355. W5GB-9 appears to be on a large balloon somewhere over NM or AZ

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-01 10:16:01 UTC
From: wb8elk@aol.com
Topic: 4355 Message: 4355

While looking at the APRS propagation page to see if any band openings (a massively large tropo event covering the entire state of Texas was evident), I noticed the telltale sign of a high altitude balloon over Arizona/New Mexico that was being copied as far away as Blythe, CA.....it appears to be an APRS transmitter onboard a large scientific balloon launched from Holloman in NM and shows up as W5GB-9 (the NMSU, Las Cruces Radio Club)....it appears to have been up since 1400z yesterday...the last transmission I see was at 0908z. Their GPS appears to have failed early on in the flight as the altitude hasn't reported above 12000m and it is now showing a position over Brazil moving at 586 mph....but the digipeaters receiving it show it near Arizona.

I can find no other info on the flight and can't find the NMSU radio club's website....if anyone has any more details on this flight, it'd be greatly appreciated.

They may have cut the balloon down since I haven't seen anything since 0908z.

73s de Bill WB8ELK

**********Get trade secrets for amazing burgers. Watch "Cooking with Tyler Florence" on AOL Food.
(http://food.aol.com/tyler-florence?video=4&?NCID=aolfod00030000000002)

4356. QRZ Down?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 00:48:06 UTC
From: Rick von Glahn
Topic: 4356 Message: 4356

I needed to look up a callsign and couldn't get through. I tracerouted it and the DNS server I am using failed (OpenDNS). I dug around and found an actual IP address, that failed too. Is it just me or ...

73 -- Rick, N0KKZ

4357. Re: [GPSL] QRZ Down?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 00:52:41 UTC
From: Greg Williams
Topic: 4356 Message: 4357

Same issue from here on two different networks. Site's down apparently.

You can try Buckmaster at http://hamcall.net/call

Greg Williams
K4HSM

4358. RE: [GPSL] QRZ Down?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 01:01:05 UTC
From: Doug, KA0O
Topic: 4356 Message: 4358

Not your imagination today. It is definitely down!

~Doug, KA0O

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Rick von Glahn
Sent: Sunday, June 01, 2008 7:48 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] QRZ Down?

I needed to look up a callsign and couldn't get through. I tracerouted it and the DNS server I am using failed (OpenDNS). I dug around and found an actual IP address, that failed too. Is it just me or ...

73 -- Rick, N0KKZ

No virus found in this incoming message.
Checked by AVG.
Version: 8.0.100 / Virus Database: 269.24.4/1476 - Release Date: 5/31/2008 12:25 PM

4359. RE: [GPSL] QRZ Down?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 01:02:04 UTC
From: Rick von Glahn
Topic: 4356 Message: 4359

Ok Greg, thanks. I use QRZ 99.99999% of the time and so forgot Buckmasters db was out there and available. Should of just Googled ham call and it would probably ... yep second hit in google not counting a QRZ related second hit page.

Thanks for the corroboration.

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Greg Williams
> Sent: Sunday, June 01, 2008 6:53 PM
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] QRZ Down?
>
> Same issue from here on two different networks. Site's down
> apparently.
>
> You can try Buckmaster at http://hamcall.net/call
>
>
> Greg Williams
> K4HSM
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
> No virus found in this incoming message.
> Checked by AVG.
> Version: 8.0.100 / Virus Database: 269.24.4/1476 - Release Date:
> 5/31/2008 12:25 PM

4360. RE: [GPSL] QRZ Down?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 02:09:25 UTC
From: Rick von Glahn
Topic: 4356 Message: 4360

Ok, it's back up and running now. That was strange. But that's the wild and wooly net right?

73 -- Rick, N0KKZ

> -----Original Message-----
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> Rick von Glahn
> Sent: Sunday, June 01, 2008 7:02 PM
> To: GPSL@yahoogroups.com
> Subject: RE: [GPSL] QRZ Down?
>
> Ok Greg, thanks. I use QRZ 99.99999% of the time and so forgot
> Buckmasters
> db was out there and available. Should of just Googled ham call and it
> would
> probably ... yep second hit in google not counting a QRZ related second
> hit
> page.
>
> Thanks for the corroboration.
>
> 73 -- Rick, N0KKZ
>
>
> > -----Original Message-----
> > From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of
> > Greg Williams
> > Sent: Sunday, June 01, 2008 6:53 PM
> > To: GPSL@yahoogroups.com
> > Subject: Re: [GPSL] QRZ Down?
> >
> > Same issue from here on two different networks. Site's down
> > apparently.
> >
> > You can try Buckmaster at http://hamcall.net/call
> >
> >
> > Greg Williams
> > K4HSM
> >
> > ------------------------------------
> >
> > Yahoo! Groups Links
> >

> >
> >
> > No virus found in this incoming message.
> > Checked by AVG.
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> > 5/31/2008 12:25 PM
>
>
> ------------------------------------
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> Yahoo! Groups Links
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>
>
> No virus found in this incoming message.
> Checked by AVG.
> Version: 8.0.100 / Virus Database: 269.24.4/1476 - Release Date:
> 5/31/2008 12:25 PM

4361. airstrike

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 12:33:39 UTC
From: K. Mark Caviezel
Topic: 4361 Message: 4361

http://www.youtube.com/watch?v=tzJVp4ux4Bo&eurl=http://www.avweb.com/eletter/archives/avflash/1134-full.html

I'd be curious to know what type of material they use for the pylons, as the small airplane completely shredded it when it made a direct hit. (About 1/2 way through the clip.) This might be great material for ARHAB payloads.

best regards,

- Mark Caviezel

4362. Re: [GPSL] airstrike

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 20:24:45 UTC
From: wb8elk@aol.com
Topic: 4361 Message: 4362

Hi Mark,

Looks like it's made out of something like nylon (or perhaps a paper material) and is inflated with air as they deflate and collapse immediately after the pilot hits one of the pylons.

- Bill WB8ELK

**********Get trade secrets for amazing burgers. Watch "Cooking with Tyler Florence" on AOL Food.
(http://food.aol.com/tyler-florence?video=4?&NCID=aolfod00030000000002)

4363. Re: [GPSL] airstrike

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 22:05:54 UTC
From: Mike Manes
Topic: 4361 Message: 4363

Well, payloads you don't plan on recovering, anyway.
73 de Mike W5VSI

K. Mark Caviezel wrote:
> http://www.youtube.com/watch?v=tzJVp4ux4Bo&eurl=http://www.avweb.com/eletter/archives/avflash/1134-full.html
>
> I'd be curious to know what type of material they use for the pylons, as the small airplane completely shredded it when it made a direct hit. (About 1/2 way through the clip.) This might be great material for ARHAB payloads.
>
> best regards,
>
> - Mark Caviezel
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4364. [Fwd: Re: [Ballooning] W5GB-9 appears to be on a large balloon somewhere over NM or...]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-02 22:56:44 UTC
From: Mike Manes
Topic: 4364 Message: 4364

Sure makes a sound argument for avoiding static-sensitive pyrotechnic squibs
for release devices!
73 de Mike W5VSI

-------- Original Message --------
Subject: Re: [Ballooning] W5GB-9 appears to be on a large balloon
somewhere over NM or...
Date: Mon, 2 Jun 2008 17:43:43 -0300
From: Luis Eduardo Pacheco <stratocat.iespana.es@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com
References: <cc7.32c5d55b.3574727e@aol.com>
<484343C1.4030904@...> <000901c8c444$453a5490$6801a8c0@Notebook>
<008e01c8c448$be987110$6401a8c0@hppav>
<001e01c8c466$9fd67740$6801a8c0@Notebook>
<d31406550806020941w4577a9ej7684f4cc5fffae7d@...>
<6F514BDB5733463D81D4C6F138B9ED77@AzleComm>

Yes ... they use a gondola, filled only with pounds and pounds of fine
steel shot as ballast. Thus at launch they stress the balloon to their
limits. Is the standard procedure with a new balloon before hang beneath
it a payload worth a pair million bucks.

No one wants also a catastrophic failure as ocurred in the past. Aside
the security is much imrpoved too, the agency is very afraid of damaging
third party in any sense. After each flight the balloon carcass is
disposed in a secure place. As far as I know even they dont want a
collapsed gas bag travelling in the wind at ground level provoking a car
accident having a NASA sign on it nor killing a cow that eated plastic :-)

Back in the old days...on June 6, 1989, a NASA stratospheric balloon
launched from Columbia Scientific Balloon Facility (then known as
National Scientific Balloon Facility) in Palestine, Texas, suffered an
uncommanded payload release while flying at 120,000 feet over a
thunderstorm near Graham, Texas. Months after the accident, a
post-flight investigation concluded that a lightning bolt traveling up
from the clouds provoked the incident. The payload hit the ground at an
estimated speed of 700 mph (1,100 kph). No one was harmed, but the
incident forced the agency to change its policy, forbidding the flying
of balloons over thunderstorms. More details in
http://stratocat.com.ar/fichas-e/1989/PAL-19890609.htm

Best regards
Luis Eduardo Pacheco
StratoCat - (english version: http://stratocat.com.ar/indexe.html)

Historical recopilation project on the use of stratospheric balloons in
the scientific research, the military field and the aerospace activity

2008/6/2, Paul Finch <dpaulfinch@azlecomm.com
<mailto:dpaulfinch@...>>:

WOW, 8000 pounds, it that correct!!!?????

Paul

From: Ballooning@yahoogroups.com
<mailto:Ballooning@yahoogroups.com>
[mailto:Ballooning@yahoogroups.com
<mailto:Ballooning@yahoogroups.com>] *On Behalf Of *Luis Eduardo Pacheco
Sent: Monday, June 02, 2008 11:41 AM
To: Ballooning@yahoogroups.com <mailto:Ballooning@yahoogroups.com>
Subject: Re: [Ballooning] W5GB-9 appears to be on a large balloon
somewhere over NM or...

Hi!

This is the official NASA info on regard the flight.

This was a flight qualification test of the new A34.43-3 balloon
design with a fully loaded payload, 8,000 pound suspended weight.
Part of the payload was a piggyback instrument, BalloonSat, being
flown for NMSU. The BalloonSat instrument is a set of
photomultiplier detectors to measure the earth's background
radiation at 450-nm. It will characterize that background for
further cosmic ray studies. The BalloonSat configuration will also
provide a test of the engineering concepts for a university
nanosatellite payload in a near-space environment. BalloonSat was
developed by NMSU under a US Air Force program.

By the way...¿can I post the pictures on my website too..? I'm
planning tonight to update the news page with the balloon flight.

Best regards
Luis Eduardo Pacheco
StratoCat - (english version: http://stratocat.com.ar/indexe.html)
Historical recopilation project on the use of
stratospheric balloons in the scientific research,
the military field and the aerospace activity

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4365. Address

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-04 17:40:00 UTC
From: PAUL VERHAGE
Topic: 4365 Message: 4365

Nuts and Volts magazine is sending copies of their magazine to GPSL. I can't carry them with me, so I'd like them sent directly to someone hosting GPSL this year.

What home address should they use?

Thanks,
Paul

4366. Re: [GPSL] Address

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-04 18:19:34 UTC
From: G_Harlan_ATVQ
Topic: 4365 Message: 4366

Paul,

Let me know where to ship the copies of ATVQ as well.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups.com
Sent: Wednesday, June 04, 2008 12:40 PM
Subject: [GPSL] Address

Nuts and Volts magazine is sending copies of their magazine to GPSL. I can't carry them with me, so I'd like them sent directly to someone hosting GPSL this year.

What home address should they use?

Thanks,
Paul

4367. Re: [Ballooning] Sky Diving from The Edge of Space

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-05 19:04:58 UTC
From: Mike Manes
Topic: 4367 Message: 4367

Yup. A gutsy flight, particularly in light of the fact that the dood that tried it earlier ended up in an uncontrollable spin and bought the farm. This work was part of pre-NASA efforts to put a man in space, and was investigating various means of getting him back home.

Joe's record for a record free-fall altitude and speed still stands today, and it's the one that French parachutist, M. Fournier, hoped to break last week; alas, the cutdown device fired during the launch sequence from Alberta CN, leaving him and his gondola on the deck.

Now, the tail end of that video is baloney. Joe landed in in the NM desert, sans surfboard.

BTW, I met Joe a few years ago at a manned gas balloon event. Real nice gent, and a ham, to boot. His call is N4HDP (Hot Dog Pilot), and he was running a theme restaurant, Rosie O'Grady's, in Kissimmee FL at the time.

73 de Mike W5VSI, EOSS

Chris Maness wrote:
> This guy has nards of steel. Gotta give credit where credit is due.
>
> http://www.youtube.com/watch?v=5BOK1aMIhp4&feature=related
>
> Joe Kittinger Hits The Speed Of Sound Without A Vehicle diving from a
> balloon at 102 thousand feet above earth.
>
> ------------------------------------
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>
> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:

>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4368. Re: [GPSL] Address

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-06 11:14:15 UTC
From: Troy Campbell
Topic: 4365 Message: 4368

All,

You can send them to:

Cindy Campbell
6933 N Mercier
Kansas City, MO 64118

Troy

--- On Wed, 6/4/08, G_Harlan_ATVQ <atvq@...> wrote:
From: G_Harlan_ATVQ <atvq@...>
Subject: Re: [GPSL] Address
To: GPSL@yahoogroups.com
Date: Wednesday, June 4, 2008, 1:19 PM

Paul,

Let me know where to ship the copies of ATVQ as
well.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan
Technologies - publisher of Amateur Television Quarterly
ATVQ@hampubs. com
815-398-2683 -
voice
815-398-2688 - fax
http://www.hampubs. com

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups. com
Sent: Wednesday, June 04, 2008 12:40 PM
Subject: [GPSL] Address

Nuts and Volts magazine is sending copies of their magazine to GPSL.
I can't carry them with me, so I'd like them sent directly to someone hosting
GPSL this year.

What home address should they use?

Thanks,
Paul

4369. Re: [GPSL] Address

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-06 13:40:12 UTC
From: G_Harlan_ATVQ
Topic: 4365 Message: 4369

Will do.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@...
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs.com

----- Original Message -----
From: Troy Campbell
To: GPSL@yahoogroups.com
Sent: Friday, June 06, 2008 6:14 AM
Subject: Re: [GPSL] Address

All,

You can send them to:

Cindy Campbell
6933 N Mercier
Kansas City, MO 64118

Troy

--- On Wed, 6/4/08, G_Harlan_ATVQ <atvq@...> wrote:

From: G_Harlan_ATVQ <atvq@...>
Subject: Re: [GPSL] Address
To: GPSL@yahoogroups.com
Date: Wednesday, June 4, 2008, 1:19 PM

Paul,

Let me know where to ship the copies of ATVQ as well.

Thanks.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
ATVQ@hampubs. com
815-398-2683 - voice
815-398-2688 - fax
http://www.hampubs. com

----- Original Message -----
From: PAUL VERHAGE
To: GPSL@yahoogroups. com
Sent: Wednesday, June 04, 2008 12:40 PM
Subject: [GPSL] Address

Nuts and Volts magazine is sending copies of their magazine to GPSL.
I can't carry them with me, so I'd like them sent directly to someone
hosting GPSL this year.

What home address should they use?

Thanks,
Paul

4370. Re: [GPSL] Digest Number 1149

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-06 13:49:17 UTC
From: K. Mark Caviezel
Topic: 4370 Message: 4370

Re: [Ballooning] Sky Diving from The Edge of Space

Posted by: "Mike Manes"
mrmanes@...

w5vsi2002

Thu Jun 5, 2008 11:05 am (PDT)

Yup. A gutsy flight, particularly in light of the fact that the dood that

tried it earlier ended up in an uncontrollable spin and bought the farm.

>>>>>>>>>>>> Who was that? Dave Hall= never flew, Cheryl Sterns = never flew, Nick Piantenida = flew three times, died 4 months after his last flight, but not because of an uncontrolable spin.

- Mark Caviezel

4371. Re: [GPSL] Digest Number 1149

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-06 23:09:35 UTC
From: wb8elk@aol.com
Topic: 4370 Message: 4371

Yup. A gutsy flight, particularly in light of the fact that the dood that tried it earlier ended up in an uncontrollable spin and bought the farm.

I think you are referring to a previous jump by Kittinger where he went into an uncontrolled spin with the parachute shroud line wrapped around his neck...he almost lost consciousness but did survive that descent (I believe that one was from about 70,000 feet or so) to later make the big jump shown in the video.

- Bill WB8ELK

**********Get trade secrets for amazing burgers. Watch "Cooking with Tyler Florence" on AOL Food.
(http://food.aol.com/tyler-florence?video=4?&NCID=aolfod00030000000002)

4372. BRAQ fast release device / separatuer

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-07 01:10:45 UTC
From: Mike Manes
Topic: 4372 Message: 4372

Bonjour, monsieurs,

Please forgive my use of English - my French was just barely adequate to give me an understanding of how your fast release device operates, as shown on your web page:

http://raqi.ca/braq/modules/separateur/separateur.htm

Very clever! And apparently much lighter and easier to build than the one that I developed for EOSS:

http://www.eoss.org/hardware/quick_release/index.htm

I do have some questions, if you don't mind:

I have never seen the off-the-shelf brass pieces that you are using, and I'm not sure where I might find a "quincaillerie" here in Baja Canada. Could you elucidate a little?

I found it necessary to use an anaeroid cell to keep the EOSS release device locked through the launch sequence and in upper air turbulence below 70k'. Have you found that necessary for your device?

73 de Mike W5VSI
CTO EOSS

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4373. Re: [GPSL] Digest Number 1149

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-07 02:26:26 UTC
From: Mike Manes
Topic: 4370 Message: 4373

Yeah, I saw that as well. But I seem to recall from "The Pre-Astronauts" that there was one fatal accident during the Man High program before Joe's jump.
73 de Mike W5VSI

wb8elk@... wrote:
> Yup. A gutsy flight, particularly in light of the fact that the dood
> that
> tried it earlier ended up in an uncontrollable spin and bought the farm.
>
> I think you are referring to a previous jump by Kittinger where he went
> into an uncontrolled spin with the parachute shroud line wrapped around
> his neck...he almost lost consciousness but did survive that descent (I
> believe that one was from about 70,000 feet or so) to later make the big
> jump shown in the video.
>
> - Bill WB8ELK
>
>
>
> ---
> Get trade secrets for amazing burgers. Watch "Cooking with Tyler
> Florence" on AOL Food
> <http://food.aol.com/tyler-florence?video=4?&NCID=aolfod00030000000002>.
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4374. Days Inn, Liberty MO

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-07 13:06:04 UTC
From: Roger Hammond
Topic: 4374 Message: 4374

Keith / Troy,

Have you heard anything good or bad about the Days Inn that's close to the college? It hasn't exactly gotten rave reviews on the net, but the price is right.

Just curious,

Rog KCØMWM

4375. Re: BRAQ fast release device / separatuer

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-07 13:31:09 UTC
From: Hank
Topic: 4372 Message: 4375

> I have never seen the off-the-shelf brass pieces that you
> are using, and I'm not sure where I might find a "quincaillerie"
> here in Baja Canada.

Mike and I traded a few offlist emails on this puzzle already.

The quinc (thank's to Google) turns out to be a hardware store.

I just took a better look at those parts, and now I'm thinking
the grooved ends might be barbs for fitting into some kind of
flexible tubing.

Whether it would be for water and plumbing, or for air, I
wouldn't hazard a guess.

Hank

4376. fatality related to stratospheric ballooning

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-07 20:31:12 UTC
From: K. Mark Caviezel
Topic: 4376 Message: 4376

Posted by: "Mike Manes"
mrmanes@...

w5vsi2002

Fri Jun 6, 2008 6:26 pm (PDT)

Yeah, I saw that as well. But I seem to recall from "The Pre-Astronauts" that

there was one fatal accident during the Man High program before Joe's jump.

73 de Mike W5VSI

>>>>>>> from Mark >>>>>>>>>>> As far as I know, there were no fatalities in the Man High program. Maybe you're recalling Victor Prather, a US Navy officer who died of drowning after landing the Strato-Lab gondola on the Gulf of Mexico. That mission featured no skydiving or free-fall. The accident was in 1961, the year after Kittinger's highest Excelsior jump.

best regards,

- Mark Caviezel

4377. Re: [GPSL] fatality related to stratospheric ballooning

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-08 05:29:33 UTC
From: Mike Manes
Topic: 4376 Message: 4377

Could be

K. Mark Caviezel wrote:
>
> Posted by: "Mike Manes" mrmanes@...
> <http://us.mc523.mail.yahoo.com/mc/compose?to=mrmanes@...&Subject=%20Re%3A%20Digest%20Number%201149>
> w5vsi2002 <http://profiles.yahoo.com/w5vsi2002>
>
>
> Fri Jun 6, 2008 6:26 pm (PDT)
>
> Yeah, I saw that as well. But I seem to recall from "The Pre-Astronauts"
> that
> there was one fatal accident during the Man High program before Joe's jump.
> 73 de Mike W5VSI
>
> >>>>>>> from Mark >>>>>>>>>>> As far as I know, there were no
> fatalities in the Man High program. Maybe you're recalling Victor
> Prather, a US Navy officer who died of drowning after landing the
> Strato-Lab gondola on the Gulf of Mexico. That mission featured no
> skydiving or free-fall. The accident was in 1961, the year after
> Kittinger's highest Excelsior jump.
>
> best regards,
>
> - Mark Caviezel
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4378. Re: Rép. : BRAQ fast release devi ce / separatuer

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-09 02:41:25 UTC
From: Mike Manes
Topic: 4378 Message: 4378

Bonjour Michel,

Et merci beaucoup pour votre info!

Again - I shall not agonize you further avec mon Francias tres mal!

There were a number of other balloonatics on the GPSL reflector who were wondering about those brass pieces. You have defined them quite well!

I hope you don't mind my copying GPSL on this email.

It's interesting that you keep your parachute packed in a bag during ascent. Most of the others attach the balloon to the top (apex) of the parachute and the payload line to the bottom of the shroud lines, using a "spreader ring" to hold the shroud lines apart to ensure rapid inflation on descent.

I take it then that the separation device remains closed by simple friction until tension is applied to the line? Or must the release wire be actively moved to open the device? I could not tell from the video how that part worked.

The EOSS fast release is held closed whenever line tension exceeds about 1.4 kg (3 lb) and is opened by a spring set for that tension. A locking arm is engaged to keep the device closed before launch, and that arm is moved out of the way by an anaeroid cell on ascent above 70,000 ft. We did this because we have observed some pretty strong turbulence when passing directly through the jet stream. That is fairly rare, however.

One advantage, and the primary purpose of the EOSS device, is to separate the balloon line immediately upon burst to prevent any fouling of the parachute or payload string by latex shards. It does that very well. Previously, we waited to get an indication of burst and then sent the DTMF command to burn the line, but too often, that was too late to prevent fouling.

We did include a commandable release feature in the event of a "floater" or to avoid landing in an undesirable area. That did add considerably to the complexity, however. We've not yet used it, however.

Another advantage is that there is no need to rebuild the line burner each flight or to replace its batteries. Flight preparation is just a matter of tying on a new balloon line to a ring and clipping the ring into the jaws. Voila'! Fait complet!

Congratulations on your successful flights! I look forward to seeing the pictures and videos.

73 de Mike W5VSI
CTO EOSS

Michel Graveline wrote:
> Bonjour Mike
>
> I try the release for a second time this weekend, and it was not a
> success. I am putting my parachute in a nylon bag and a small
> nylon sewing tread, is attached to the ballon rope, wich pull the
> parachute of the bag when I cut the rope with the DTMF controler.
>
> This time as I was going to leave the ballon bust, being separated with
> the release mecanism, and by doing that, pulling the parachute out of
> the bag.
>
> I was able to install a video camera and film everything.
> http://raqi.ca/braq/histo/braq08-3/divers/Eclatement.wmv
>
> http://raqi.ca/braq/histo/braq08-3/braq08-3.htm (the full report page)
>
> I have to split to movie into individual frames, to analyse what realy
> happened. It look like the nylon thread got entangle in the release
> lever, preventing it from dropping.
>
> The first time I try the device, the air was very calm, not blowing at
> more than 30 miles/hr.
>
> This weekend, it was another story, it was windy at groud level and at
> 20 to 40kfeets, it was around 100 miles /hr
>
> Air turbulance, does not seem to be a problem, and the device remain
> locked even when I did not want :-)
>
> I will get back to you with future trial result, in two weeks
>
> The part are sold for PEX plastic water tubing.
> One is the plug and the other is an adapter from 1/2" copper to 1/2"
> QPex tubing
> they are $0.85 and $0.95 each.
>
> http://www.pexinfo.com/#fittings some more informations
>
> --- En date de : *Ven, 6.6.08, Mike Manes /<mrmanes@...>/* a écrit :
>
> De: Mike Manes <mrmanes@...>
> Objet: BRAQ fast release device / separatuer
> À: ve2wmg@...
> Cc: "EOSS Launch Team Reflector" <EOSS_LT@yahoogroups.com>, "GPSL
> Balloon Reflector" <GPSL@yahoogroups.com>
> Date: vendredi 6 Juin 2008, 21 h 10
>
> Bonjour, monsieurs,
>
> Please forgive my use of English - my French was just barely adequate to give

> me an understanding of how your fast release device operates, as shown on your
> web page:
>
> http://raqi.ca/braq/modules/separateur/separateur.htm
>
> Very clever! And apparently much lighter and easier to build than the one that
> I developed for EOSS:
>
> http://www.eoss.org/hardware/quick_release/index.htm
>
> I do have some questions, if you don't mind:
>
> I have never seen the off-the-shelf brass pieces that you are using, and
> I'm
> not sure where I might find a "quincaillerie" here in Baja Canada.
> Could you
> elucidate a little?
>
> I found it necessary to use an anaeroid cell to keep the EOSS release device
> locked through the launch sequence and in upper air turbulence below 70k'.
> Have you found that necessary for your device?
>
> 73 de Mike W5VSI
> CTO EOSS
>
> --
> Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
> --
> Devenez un meilleur amigo grâce à *Yahoo! Courriel*
> <http://cf.promos.yahoo.com/courriel/visiteguidee2/>

--
Mike Manes mrmanes@gmail.com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4379. Fw: [GPSL] VHF Communications

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-10 01:22:40 UTC
From: Gene Harlan
Topic: 4379 Message: 4379

Tried to send direct, but it bounced.

----- Original Message -----
From: Gene Harlan
To: Keith Kaiser
Sent: Sunday, June 08, 2008 10:03 PM
Subject: Re: [GPSL] VHF Communications

Keith,

I still have some left and will be happy to send them for GPSL. Just give me an address to ship to.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

----- Original Message -----
From: Keith Kaiser
To: Gene Harlan
Sent: Sunday, February 17, 2008 10:05 AM
Subject: Re: [GPSL] VHF Communications

Gene,

How about asking if they would like to be sponsors of GPSL 2008? They could send enough copies (25-30) for everyone to have one, and I would be happy to list them as a sponsor on our web page (superlaunch.org). Or you could just work out some other arrangement good with them.

Keith Kaiser
Director
Near Space Ventures, Inc.
(816) 590-3154

On Feb 16, 2008, at 10:41 PM, Gene Harlan wrote:

For those of you that have seen VHF Communications before, you know that it is a great technical publication. It is a quarterly publication covering VHF, UHF, and microwaves. There are many construction articles primarily for the higher frequencies. I learn something every time I read an issue.

Harlan Technologies is the USA distributor, and we will be happy to take your subscriptions. Subscriptions are $44.00 per year (2008 rate).

If you are not familiar with the publications, the publisher Andy Barter has sent a few sample issues to try and get the USA subscription interest up. If you think that you might be interested in subscribing but just not sure, send me your mailing address and I will be happy to send a sample to help you decide if you would like to subscribe.

When they are gone, that's it. First come, first to get the samples.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

4380. [Fwd: [Ballooning] UTARC 10m beacon test underway]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-10 05:01:36 UTC
From: Mike Manes
Topic: 4380 Message: 4380

-------- Original Message --------
Subject: [Ballooning] UTARC 10m beacon test underway
Date: Mon, 09 Jun 2008 19:39:24 -0400
From: gregwilliams@... <gregwilliams@...>
Reply-To: Ballooning@yahoogroups.com
To: ballooning@yahoogroups.com

28.215 LSB

AA4UT RTTY beacon, being tested for flight this Saturday at Knoxville, TN hamfest.

Please listen for it and if you copy send me a report.

Sample telemetry:
RYRYRY AA4UT/B
GPGGA,232714.000,3558.7504,N,08401.2469,W,1,09,1.2,345.7,M,-32.1,M,,0
BATT 09.34 VOLTS TEMP P28C 7/9$7!")s8
75-0

You can download a RTTY listening program at:
http://dtrc.utarc.org - download and use DTRC It will send your telemetry readings to Univ of Tenn's server and display for anyone wishing to confirm reception.

http://dtrc.utarc.org/dtrcpeek.php?call=K4HSM - my telemetry relay

http://dtrc.utarc.org/dtrcpeek.php - Takes you to list of ppl on DTRC sending info.

Thanks for any help you can provide. I don't hear much on 10m atm so I don't think we'll get many reports as this is less than 1 watt, but as gray-line hits you might get lucky.

We'll keep the beacon running a couple of hours or so.

Thanks
Greg Williams
K4HSM
Knoxville, TN

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4381. Re: [GPSL] [Fwd: [Ballooning] UTARC 10m beacon test underway]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-10 04:05:51 UTC
From: Greg Williams
Topic: 4380 Message: 4381

Beacon was turned off around 9PM.

We're planning to launch about 10:30AM Saturday. I'll have more
information NLT Wednesday on freq, balloon envelope, and launch time.

Greg Williams, K4HSM

4382. Lastest Article

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-10 20:36:51 UTC
From: PAUL VERHAGE
Topic: 4382 Message: 4382

Gene, I wanted to check that you got my last article.

Thanks,
Paul

4383. UTARC UX-24 balloon launch scheduled for the Knoxville Hamfest

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-11 03:14:55 UTC
From: Greg Williams
Topic: 4383 Message: 4383

UTARC will be participating in the Knoxville Hamfest for the third straight year with a balloon launch Saturday, June 14.

The flight will be a simple demonstration of RTTY on 10 meters. It will not be compliant with the DTRC tracking through the Spirit of Knoxville web site, however DTRC can be used to relay the telemetry back to UTARC's servers for data validation.

Plans are to launch NET 10:30 Eastern time, compliant with hamfest forums and presentations not conflicting at that time.

A latex balloon will be used to send the payload up to altitude, then burst and plummet back to earth.

Frequency will be 28.215MHz LSB

Recovery is optional. There will NOT be 2m APRS this flight.

As always, things may change as the next 72 hours progress, so stay tuned.

You can download a RTTY listening program at:
http://dtrc.utarc.org <http://dtrc.utarc.org> - download and use DTRC It will send your telemetry readings to Univ of Tenn's server and display for anyone wishing to confirm reception.

http://dtrc.utarc.org/dtrcpeek.php <http://dtrc.utarc.org/dtrcpeek.php> - Takes you to list of ppl on DTRC sending info.

--

Gregory S. Williams
gregwilliams(at)knology.net
k4hsm(at)knology.net

http://www.etskywarn.net
http://www.twiar.org
http://www.icebearnation.com

4384. eMail Problems

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-13 14:57:46 UTC
From: Keith Kaiser
Topic: 4384 Message: 4384

To all,

I apologize to anyone who has sent me e-Mails in the past couple of weeks a number of issues have contributed to not being able to receive or respond to them. For reasons that are still unknown my gmail account was disabled, I'm trying to work through the Google processes and get it reinstated but up till now I've had no luck. This has caused me to have to reactivate a number of my older e-Mail accounts so at this point if you need to reach me please use kkaiser@....

kkaiser@... is the oldest account I still have but it still works and right now the easiest for me to check. You may get an e-Mail from me at some other address and whatever that is is OK too, so keep an eye out.

4385. eMail Problems

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-13 15:06:20 UTC
From: Keith Kaiser
Topic: 4384 Message: 4385

To all,

I apologize to anyone who has sent me e-Mails in the past couple of weeks a number of issues have contributed to not being able to receive or respond to them. For reasons that are still unknown my gmail account was disabled, I'm trying to work through the Google processes and get it reinstated but up till now I've had no luck. This has caused me to have to reactivate a number of my older e-Mail accounts so at this point if you need to reach me please use kkaiser@....

kkaiser@... is the oldest account I still have but it still works and right now the easiest for me to check. You may get an e-Mail from me at some other address and whatever that is is OK too, so keep an eye out.

4386. GPS Antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-15 02:31:05 UTC
From: Joe
Topic: 4386 Message: 4386

Hey guys
Just found this on E bay

a semi hockey puck gps antenna, but interesting, LOW current draw, 12 ma and works way below 5 vdc, says goes to 2.5 vdc.

way cool, anyone know about these?

the E bay ad is at,
http://tinyurl.com/4ckex2

Joe WB9SBD

4387. Re: [GPSL] GPS Antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-15 04:53:29 UTC
From: Mike Manes
Topic: 4386 Message: 4387

Here are the specs:
http://www.gpsgeek.com/products/amplified-28db-smb-f-external-gps-antenna-for-magellan-roadmate-lowrance-iway-thales-navigation-and-furuno-gps-receivers

Joe wrote:
> Hey guys
> Just found this on E bay
>
> a semi hockey puck gps antenna, but interesting, LOW current draw, 12
> ma and works way below 5 vdc, says goes to 2.5 vdc.
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>
> Joe WB9SBD
> *

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4388. Re: GPS Antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-15 04:23:31 UTC
From: Hank
Topic: 4386 Message: 4388

>LOW current draw, 12 ma and works way below 5 vdc,
>says goes to 2.5 vdc.

Joe,

I don't know anything about this particular product,
but I can tell you that it's nothing special, specwise or
pricewise.

One I saw a while back on ebay, and it's there tonight,
specs 6-12 mA with 12 being a max, and the same low voltage
operating ability. It would work on my handheld which
sources the ext. antenna with about 3 volts.

This kind of performance (low voltage and current) is
commonplace now for putting an external antenna on a
handheld.

Hank

4389. Re: GPS Antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-15 04:37:09 UTC
From: Hank
Topic: 4386 Message: 4389

> specs 6-12 mA with 12 being a max

FWIW, it's actually 6-11 mA.

I haven't bought one, but was thinking about it to get
better performance in thick woods. The GPS is a fairly
old, but good Garmin "EMap."

4390. RE: [GPSL] Re: GPS Antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-15 14:43:23 UTC
From: Earl Foster
Topic: 4386 Message: 4390

I use that antenna with my Garmin GPS-15. Both work ideally with 3.3VDC

To: GPSL@yahoogroups.comFrom: n1ltv@...: Sun, 15 Jun 2008 04:37:09 +0000Subject: [GPSL] Re: GPS Antenna

> specs 6-12 mA with 12 being a maxFWIW, it's actually 6-11 mA. I haven't bought one, but was thinking about it to getbetter performance in thick woods. The GPS is a fairlyold, but good Garmin "EMap."

_____
Enjoy 5 GB of free, password-protected online storage.
http://www.windowslive.com/skydrive/overview.html?ocid=TXT_TAGLM_WL_Refresh_skydrive_062008

4391. Re: [GPSL] GPS Antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-15 19:41:32 UTC
From: Michael Gray
Topic: 4386 Message: 4391

Synergy Systems offers a number of active GPS antennas. Differnt
mounting and connector options. They offer a 10% ham/educational
discount as well.

http://www.synergy-gps.com/content/view/25/48/

Mike Manes wrote:
> Here are the specs:
> http://www.gpsgeek.com/products/amplified-28db-smb-f-external-gps-antenna-for-magellan-roadmate-lowrance-iway-thales-navigation-and-furuno-gps-receivers
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> Joe wrote:
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>>
>> way cool, anyone know about these?
>>
>> the E bay ad is at,
>> *http://tinyurl.com/4ckex2
>>
>> Joe WB9SBD
>> *
>

4392. BASE 24 - 18 June 1300 UTC

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-17 17:42:11 UTC
From: BASE
Topic: 4392 Message: 4392

BASE 24 is go for flight tomorrow morning. Launch has been move to Crawfordsville High School (Crawfordsville, Indiana) with an anticipated landing southeast of Columbus, Indiana.

Two radios broadcasting APRS information will use 144.39 MHz (call signs W9YJ-11 and W9YJ-12). Live data downlink on 900 MHz spread spectrum radio.

Experiments to be flown:

Relative Photometric Measurements of Absorption Lines of Carbon Dioxide, Water Vapor, and Ozone

Polarization of Skylight - powered by a solar cell

Compact Dual Axis Coincidence Geiger Counters

Three video cameras - two DXG 506V and one Aiptek

Details will be posted on the website:

www.depauw.edu/acad/physics/base

Howard

4393. BASE 24 recovered

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-18 20:06:57 UTC
From: BASE
Topic: 4393 Message: 4393

BASE 24 was launched at 13:06 UTC. Max altitude 88,300 feet. We watched the burst from Hope, Indiana town square. Observed final 5,000 feet of the descent. Recovered payload in a soybean field narrowly missing power lines and just short of a small grove of tall trees. Flight was 86 miles at a heading of 131 degrees.

More details tomorrow on the website: www.depauw.edu/acad/physics/base

Howarf

4394. WB8ELK balloon to fly simplex repeater for Field Day from Huntsville AL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-24 22:03:09 UTC
From: wb8elk@aol.com
Topic: 4394 Message: 4394

I've finalized the payload frequency...I'll be flying a simplex FM voice repeater on 144.36 MHz....I'll be attempting to link into the Ft. Wayne IN balloon (KB9ZNZ-11) that will be flying a crossband repeater with 144.36 input and 446.025 MHz output at the same time.

I'll also be flying the new HF transmitter board with onboard GPS on 28.175 MHz in the following formats: RTTY, Hellscreiber and DominoEX5 at the top of each EVEN minute. I'm hoping to work some E-Skip with this on 10m since the band has been wide open on Es just about every day.

Location: Huntsville AL - NSSTC building
Launch Time: between 1:00 pm to 2:00 pm CDT on June 28th

Simplex repeater - 144.36 MHz (20 seconds record/playback)
HF transmitter - 28.175 MHz (RTTY, Hellscreiber, DominoEX5)

Potentially long duration latex flight.

- Bill WB8ELK

**********Gas prices getting you down? Search AOL Autos for fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

4395. Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-25 01:25:16 UTC
From: Joe
Topic: 4395 Message: 4395

For the life of me I remember someone removing the magnet from this hockey puck receiver,

but i can't seem to find it now.

who did it?

how did they do it?

did it effect it's operation?

Joe

4396. RE: [GPSL] Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-25 03:38:12 UTC
From: Marty Griffin
Topic: 4395 Message: 4396

Here ya go, good luck.
- Marty, WA0GEH

Great. I figured someone must have tried this before. It is always nice to know what something looks like inside before go in. I am looking forward to seeing the photos. :)

Thanks.
73 - Brek - KC0YOE

saxdru <dru@...> wrote:
We have striped down at least one GPS-18LVC out here in Maryland. Without the casing and the magnets it is indeed significantly lighter. The internals come out looking like a standard (but oddly shaped) Garmin engine (completely enclosed like the GPS-15 or 25) with a ceramic patch antenna mounted on the top.

I will try to get pictures and the actual weight out tomorrow when i can get back to the lab.

73s,
Dru Ellsberry
KB3MRQ
MdSGC

--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:
>
> Anybody ever take one of the little Garmin hockey pucks apart. I'm thinking a good portion of their weight is the magnet meant to stick them to the vehicle. Do they need that magnet?
>
> I'm wanting to build an ultralight APRS system for a solar balloon. I am thinking about using the Garmin GPS 18 LVC, a tiny tracker 300 trying to mount an APRS inside the solar envelope. The air inside should be warm right. That is why solar balloons work. So, I figure I could ditch all the insulation on the APRS package.
>
> Any thoughts anyone has would be greatly appreciated.
>
> 73 - Brek - KC0YOE
>
>

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Tuesday, June 24, 2008 7:25 PM
To: GPSL@yahoogroups.com

Subject: [GPSL] Garmin 18 LVC Magent

For the life of me I remember someone removing the magnet from this hockey puck receiver,

but i can't seem to find it now.

who did it?

how did they do it?

did it effect it's operation?

Joe

Yahoo! Groups Links

4397. Re: [GPSL] Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-25 14:25:28 UTC
From: Joe
Topic: 4395 Message: 4397

Us also, hope they appear soon as well as any after effects on
performance.

of course the water resistant properties is Nil, but not a concern.

Joe

Marty Griffin wrote:

>Here ya go, good luck.
>- Marty, WA0GEH
>
>
>Great. I figured someone must have tried this before. It is always nice to
>know what something looks like inside before go in. I am looking forward to
>seeing the photos. :)
>
>Thanks.
>73 - Brek - KC0YOE
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>saxdru <dru@...> wrote:
>We have striped down at least one GPS-18LVC out here in Maryland.
>Without the casing and the magnets it is indeed significantly lighter.
>The internals come out looking like a standard (but oddly shaped)
>Garmin engine (completely enclosed like the GPS-15 or 25) with a
>ceramic patch antenna mounted on the top.
>
>I will try to get pictures and the actual weight out tomorrow when i
>can get back to the lab.
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>73s,
>Dru Ellsberry
>KB3MRQ
>MdSGC
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>--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:
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>thinking a good portion of their weight is the magnet meant to stick
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>>I'm wanting to build an ultralight APRS system for a solar

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>>
>balloon. I am thinking about using the Garmin GPS 18 LVC, a tiny
>tracker 300 trying to mount an APRS inside the solar envelope. The
>air inside should be warm right. That is why solar balloons work.
>So, I figure I could ditch all the insulation on the APRS package.
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>>Any thoughts anyone has would be greatly appreciated.
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>>73 - Brek - KC0YOE
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>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
>Sent: Tuesday, June 24, 2008 7:25 PM
>To: GPSL@yahoogroups.com
>Subject: [GPSL] Garmin 18 LVC Magent
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>Joe
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4398. Solar balloon internal tracker

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-26 00:05:31 UTC
From: K. Mark Caviezel
Topic: 4398 Message: 4398

Brek:
Sounds like a good plan.
I put up a solar balloon in conjunction with the 2nd Annual International Solar Balloon Day (nominally June 21, but I had to delay a day..... clouds!)
Here is a video of the very slow departure:

http://www.youtube.com/watch?v=XQfRX3pFnV0

Payload weight on launch was 5.5 lbs, decreased to 2.5 lbs with sand jettison. Most of the flight was between 50k and 54k feet.

best regards,

- mark ng0x

4399. Re: [GPSL] Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-26 01:33:06 UTC
From: Mike Manes
Topic: 4395 Message: 4399

Yeah ... it NEVER rains in WI, does it? :=}
73 de Mike W5VSI

Joe wrote:
> Us also, hope they appear soon as well as any after effects on
> performance.
>
> of course the water resistant properties is Nil, but not a concern.
>
> Joe
>
> Marty Griffin wrote:
>
>> Here ya go, good luck.
>> - Marty, WA0GEH
>>
>>
>> Great. I figured someone must have tried this before. It is always nice to
>> know what something looks like inside before go in. I am looking forward to
>> seeing the photos. :)
>>
>> Thanks.
>> 73 - Brek - KC0YOE
>>
>> saxdru <dru@...> wrote:
>> We have striped down at least one GPS-18LVC out here in Maryland.
>> Without the casing and the magnets it is indeed significantly lighter.
>> The internals come out looking like a standard (but oddly shaped)
>> Garmin engine (completely enclosed like the GPS-15 or 25) with a
>> ceramic patch antenna mounted on the top.
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>> I will try to get pictures and the actual weight out tomorrow when i
>> can get back to the lab.
>>
>> 73s,
>> Dru Ellsberry
>> KB3MRQ
>> MdSGC
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>> --- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:
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>>> Anybody ever take one of the little Garmin hockey pucks apart. I'm
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>> thinking a good portion of their weight is the magnet meant to stick
>> them to the vehicle. Do they need that magnet?
>>
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>>> I'm wanting to build an ultralight APRS system for a solar
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>>>
>> balloon. I am thinking about using the Garmin GPS 18 LVC, a tiny
>> tracker 300 trying to mount an APRS inside the solar envelope. The
>> air inside should be warm right. That is why solar balloons work.
>> So, I figure I could ditch all the insulation on the APRS package.
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>>> Any thoughts anyone has would be greatly appreciated.
>>>
>>> 73 - Brek - KC0YOE
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>> -----Original Message-----
>> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
>> Sent: Tuesday, June 24, 2008 7:25 PM
>> To: GPSL@yahoogroups.com
>> Subject: [GPSL] Garmin 18 LVC Magent
>>
>> For the life of me I remember someone removing the magnet from this
>> hockey puck receiver,
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>> but i can't seem to find it now.
>>
>> who did it?
>>
>> how did they do it?
>>
>> did it effect it's operation?
>>
>> Joe
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>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4400. Re: [GPSL] Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-26 00:44:53 UTC
From: Joe
Topic: 4395 Message: 4400

Nah,
We just have weak lakes that can't hold their water. what a mess!
Luckily I'm about 800 feet above in elevation to the nearest lake or river.

BUT

the other day was one of those days where the most common saying was,

"You want to go where?" Hmmmm, "You can't get there from here"

The Rail industry is trashed. Over 300 miles of track just gone.
thousands in questionable service.

Anyway it was cool to se them using the WWII Ducks to rescue people.
that was way cool!

Have you seen that message yet about stripping down that GPS? I
haven't yet.

Joe

Mike Manes wrote:

>Yeah ... it NEVER rains in WI, does it? :=}
>73 de Mike W5VSI
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>Joe wrote:
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>
>>Us also, hope they appear soon as well as any after effects on
>>performance.
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>>of course the water resistant properties is Nil, but not a concern.
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>>Joe
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>>Marty Griffin wrote:
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>>>Here ya go, good luck.
>>>- Marty, WA0GEH
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>>>Great. I figured someone must have tried this before. It is always nice to
>>>know what something looks like inside before go in. I am looking forward to
>>>seeing the photos. :)

>>>
>>>Thanks.
>>>73 - Brek - KC0YOE
>>>
>>>saxdru <dru@...> wrote:
>>>We have striped down at least one GPS-18LVC out here in Maryland.
>>>Without the casing and the magnets it is indeed significantly lighter.
>>>The internals come out looking like a standard (but oddly shaped)
>>>Garmin engine (completely enclosed like the GPS-15 or 25) with a
>>>ceramic patch antenna mounted on the top.
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>>>I will try to get pictures and the actual weight out tomorrow when i
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>>>73s,
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4401. Re: [GPSL] Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-26 02:48:48 UTC
From: Mike Manes
Topic: 4395 Message: 4401

Yeah, I did see Hank Riley's reply to the reflector. IIRC, the case and magnet was stripped off to reveal the patch ant and receiver underneath it. Seems to have worked OK.

Keep yer feet dry!

73 de Mike W5VSI

Joe wrote:
> Nah,
> We just have weak lakes that can't hold their water. what a mess!
> Luckily I'm about 800 feet above in elevation to the nearest lake or river.
>
> BUT
>
> the other day was one of those days where the most common saying was,
>
> "You want to go where?" Hmmmm, "You can't get there from here"
>
> The Rail industry is trashed. Over 300 miles of track just gone.
> thousands in questionable service.
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> Anyway it was cool to se them using the WWII Ducks to rescue people.
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> Have you seen that message yet about stripping down that GPS? I
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4402. Re: [GPSL] Garmin 18 LVC Magent

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-26 01:55:26 UTC
From: Joe
Topic: 4395 Message: 4402

Yeah i just bit the bullett and ripped it apart. fo the most part it's easy. and by the layout i know it will function exactly the same.

The hardest part os that molded rubber part right where it comes out of the puck!

LOTS of micro surgery with a scalpel to get that baby apart.

Joe

Mike Manes wrote:

>Yeah, I did see Hank Riley's reply to the reflector. IIRC, the case and
>magnet was stripped off to reveal the patch ant and receiver underneath it.
>Seems to have worked OK.
>
>Keep yer feet dry!
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>73 de Mike W5VSI
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>>The Rail industry is trashed. Over 300 miles of track just gone.
>>thousands in questionable service.
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>>that was way cool!
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>>>>performance.
>>>>
>>>>of course the water resistant properties is Nil, but not a concern.
>>>>
>>>>Joe
>>>>
>>>>Marty Griffin wrote:
>>>>
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>>>>
>>>>>Here ya go, good luck.
>>>>>- Marty, WA0GEH
>>>>>
>>>>>
>>>>>Great. I figured someone must have tried this before. It is always nice to
>>>>>know what something looks like inside before go in. I am looking forward to
>>>>>seeing the photos. :)
>>>>>
>>>>>Thanks.
>>>>>73 - Brek - KC0YOE
>>>>>
>>>>>saxdru <dru@...> wrote:
>>>>>We have striped down at least one GPS-18LVC out here in Maryland.
>>>>>Without the casing and the magnets it is indeed significantly lighter.
>>>>>The internals come out looking like a standard (but oddly shaped)
>>>>>Garmin engine (completely enclosed like the GPS-15 or 25) with a
>>>>>ceramic patch antenna mounted on the top.
>>>>>
>>>>>I will try to get pictures and the actual weight out tomorrow when i
>>>>>can get back to the lab.
>>>>>
>>>>>73s,
>>>>>Dru Ellsberry
>>>>>KB3MRQ
>>>>>MdSGC
>>>>>
>>>>>--- In GPSL@yahoogroups.com, Brek Brixius <gofly2007@...> wrote:

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>>>>>
>>>>>>Anybody ever take one of the little Garmin hockey pucks apart. I'm
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>>>>>>
>>>>>thinking a good portion of their weight is the magnet meant to stick
>>>>>them to the vehicle. Do they need that magnet?
>>>>>
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>>>>>
>>>>>>I'm wanting to build an ultralight APRS system for a solar
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>>>>>balloon. I am thinking about using the Garmin GPS 18 LVC, a tiny
>>>>>tracker 300 trying to mount an APRS inside the solar envelope. The
>>>>>air inside should be warm right. That is why solar balloons work.
>>>>>So, I figure I could ditch all the insulation on the APRS package.
>>>>>
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>>>>>>Any thoughts anyone has would be greatly appreciated.
>>>>>>
>>>>>>73 - Brek - KC0YOE
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>>>>>-----Original Message-----

>>>>>From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
>>>>>Sent: Tuesday, June 24, 2008 7:25 PM
>>>>>To: GPSL@yahoogroups.com
>>>>>Subject: [GPSL] Garmin 18 LVC Magent
>>>>>
>>>>>For the life of me I remember someone removing the magnet from this
>>>>>hockey puck receiver,
>>>>>
>>>>>but i can't seem to find it now.
>>>>>
>>>>>who did it?
>>>>>
>>>>>how did they do it?
>>>>>
>>>>>did it effect it's operation?
>>>>>
>>>>>Joe
>>>>>
>>>>>------------------------------------
>>>>>
>>>>>Yahoo! Groups Links
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>>Yahoo! Groups Links
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4403. Fw: Undeliverable mail: Re: Near Space Ventures Balloon Launc

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-26 19:13:27 UTC
From: Ralph Wallio, W0RPK
Topic: 4403 Message: 4403

Keith -- E-mail to keith.kaiser@... is bouncing. -- Ralph W0RPK

Failed to deliver to 'keith.kaiser@...'
SMTP module(domain @167.142.229.65:gmail.com) reports:
host gmail-smtp-in.l.google.com says:
550 5.2.1 The email account that you tried to reach is disabled. 9si2762978qbw.14

4404. Re: [GPSL] Fw: Undeliverable mail: Re: Near Space Ventures Balloon Launc

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-27 01:01:33 UTC
From: Keith Kaiser
Topic: 4403 Message: 4404

Ralph please change my e-Mail in your system to this address wa0tjt@gmail.com
.

On Jun 26, 2008, at 2:13 PM, Ralph Wallio, W0RPK wrote:

> Keith -- E-mail to keith.kaiser@... is bouncing. -- Ralph W0RPK
>
> Failed to deliver to 'keith.kaiser@...'
> SMTP module(domain @167.142.229.65:gmail.com) reports:
> host gmail-smtp-in.l.google.com says:
> 550 5.2.1 The email account that you tried to reach is disabled.
> 9si2762978qbw.14
>
>
>

4405. WB8ELK Field Day balloon HF frequency change

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-27 22:23:54 UTC
From: wb8elk@aol.com
Topic: 4405 Message: 4405

While testing my 10m transmitter, I heard the VE3TEN propagation come through loud and clear right on the transmit frequency I had announced earlier...therefore, I'm moving it down 3 kHz to 28.172 MHz (on USB, it's best heard at 28.171 MHz).

Format: starting at top of each EVEN minute: RTTY, Hellscreiber and DominoEX5.

The simplex voice repeater will still be on 144.36 MHz...20 seconds record and playback.

Not certain if I'll put an APRS beacon on it, but if I do it will be WB8ELK-11 on 144.39....probably only every 1 or 2 minutes so as not to interfere with the simplex repeater too much.

Launch time: around 2:00 pm CDT Saturday June 28th
Huntsville AL - NSSTC building near UAH campus

- Bill WB8ELK

**********Gas prices getting you down? Search AOL Autos for fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

4406. Articles due July 1st - ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-28 14:08:00 UTC
From: Gene Harlan
Topic: 4406 Message: 4406

Another reminder that articles for the Summer issue of Amateur Television Quarterly are due by July 1st (or before). Thanks to those that have already submitted theirs.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

4407. WB8ELK Field Day balloon flight recap

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-29 08:31:27 UTC
From: wb8elk@aol.com
Topic: 4407 Message: 4407

Although fairly high surface winds, we managed a takeoff at 3:57 pm CDT...we decided to wait until the Blue Angels had finished their performance at the airshow since the prediction showed a possibility of flying near the Huntsville Airport if it got high enough into the strong easterly stratospheric winds.

We didn't fly the HF telemetry transmitter on 10m and instead put two APRS trackers onboard in addition to the simplex voice repeater.....WB8ELK-11 using a Garmin GPS18-LVC with Microtrak 300 and N4XWC-11 using the Deluo GPS receiver/Microtrak300 to see where it would die out.....the simplex repeater worked great throughout the flight (Alinco DJ-S11T with modified half wave dipole and the new Argent Data simplex repeater module)....the audio quality was superb with this new module.

We had simplex repeater contacts with Field Day sites in Georgia, Tennessee, Kentucky (W4HTB at KY4BG FD site) and a couple of contacts as far away as Mt. Vernon, Illinois where I worked Bob KA9UVY at 300 miles and Shannon KC9BIE in her mobile.

We made it to 115,078 feet and sure enough on it's descent it went directly across the Huntsville Airport but fortunately high above it....the payload landed just 400 feet inside the west gate of the Redstone Arsenal and is still transmitting it's position as I type this (12 hours after the launch)....the simplex repeater is still operating as well. Monday I'll see if I can get the base MP's interested in some balloon recovery exercises.

Landing location: 34d 38.79m 86d 42.94m

We had watched the ozonesonde launched at 1:00 pm CDT come right back to us after flying 16 miles east and we watched the burst directly over the building....we estimated a landing near Monte Sano mountain. Since we were frustrated over not being to recover the simplex repeater payload from the Arsenal, Shane N4XWC, Dick W1TV and I decided to try to find the ozonesonde.....after wandering the mountain until sunset, we gave up and returned to the Huntsville Field Day site and about 2 miles away, we heard the ozonesonde loud and clear on 403 MHz...we DF'ed it to the top of the roof of the Inergi building on Governor's Drive in downtown Huntsville....no payloads recovered, but at least we know where they are.

- Bill WB8ELK

PS.....the Byonics Deluo GPS receiver flown on N4XWC-11 died out at 78,856 feet, which is a lot higher than I expected it would shut down...it never did track again after locking up but the transmitter kept sending out the last know position.

**********Gas prices getting you down? Search AOL Autos for fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

4408. BASE 25

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-29 19:49:01 UTC
From: BASE
Topic: 4408 Message: 4408

Dear Friends,

BASE 25 - a 1200 gram balloon with 900 MHz spread spectrum live data downlink and APRS signal every two minutes at 144.39MHz - using call sign W9YJ-11 will carry the photometric atmospheric composition monitor and polarization measurement experiments. The launch is scheduled for 1500 UTC on 30 June from Northmont Schools in Crawfordsville, IN. We may launch up to an hour earlier if ready and necessary. Additional details at: www.depauw.edu/acad/physics/base

Howard

4409. Final Helium or Hydrogen orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 00:05:07 UTC
From: dlkaiser23
Topic: 4409 Message: 4409

We found a supply for helium and are taking orders for helium and hydrogen for GPSL.

The cost of helium will be $132/bottle, including delivery charges.

The cost for hydrogen will be $56/bottle, including delivery charges.

Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through, but for now i just need a final count for gas so we know what to order in total.

We need you to pre-pay for your gas, either through PayPal or send a check to Keith Kaiser at
6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until July 9, 2008.

Please let me know if you have any questions or concerns.

Deb Kaiser

4410. Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 00:12:08 UTC
From: dlkaiser23
Topic: 4410 Message: 4410

Lunch on Friday at William Jewell College will be "create your own sandwich and soup bar" catered for $10/person. I need a final count of the number of people in your group who will want to order lunch.

Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through, but for now i need a list of names of those who want to eat at the college so i can give them
a final estimate for the number to expect.

We need you to pre-pay for your lunches, either through PayPal or send a check to Keith Kaiser at 6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until July 9, 2008.

Please let me know if you have any questions or concerns.

Thank you.
Deb Kaiser

4411. GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 05:02:39 UTC
From: Nicholas Stich
Topic: 4411 Message: 4411

I know that frequency coordination is going to be handled by somebody in our group (NSV) but I thought I would start the discussion.

I would like to get my packages setup and tested, thus I would like to settle on a frequency and time slot.

I would like to use two 2M APRS systems and a 70cm unit. I would like to suggest a 6 second slot, which would allow up to 10 balloons/packages to be on one frequency.

I would 144.99 with slot 13-18 & 18-24. I am open to suggestions on the 70cm band ?

The Balloon will be flown as N Stich - K0NMS. I also plan on flying my balloon on hydrogen.

Suggestion & Comments Welcome.

Best Regards,
Nick

4412. Re: [GPSL] Final Helium or Hydrogen orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 07:05:43 UTC
From: wb8elk@aol.com
Topic: 4409 Message: 4412

1 bottle of helium for WB8ELK

- Bill WB8ELK

**********Gas prices getting you down? Search AOL Autos for
fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

4413. Re: [GPSL] Articles due July 1st - ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 14:12:49 UTC
From: PAUL VERHAGE
Topic: 4406 Message: 4413

Gene, I'd like to confirm you have my PCB article.

Paul

>>> "Gene Harlan" <atvq@...> 06/28/08 8:08 AM >>>
Another reminder that articles for the Summer issue of Amateur Television Quarterly are due by July 1st (or before). Thanks to those that have already submitted theirs.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

4414. Re: [GPSL] Final Helium or Hydrogen orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 14:22:55 UTC
From: PAUL VERHAGE
Topic: 4409 Message: 4414

One bottle of helium for NearSys and two lunches. I'll study the folks launching with hydrogen so I can begin to use it.

Thanks,
Paul

>>> "dlkaiser23" <dlkaiser@...> 06/29/08 6:05 PM >>>
We found a supply for helium and are taking orders for helium and hydrogen for GPSL.

The cost of helium will be $132/bottle, including delivery charges.

The cost for hydrogen will be $56/bottle, including delivery charges.

Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through, but for now i just need a final count for gas so we know what to order in total.

We need you to pre-pay for your gas, either through PayPal or send a check to Keith Kaiser at
6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until July 9, 2008.

Please let me know if you have any questions or concerns.

Deb Kaiser

Yahoo! Groups Links

4415. Re: [GPSL] Articles due July 1st - ATVQ

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 15:07:51 UTC
From: G_Harlan_ATVQ
Topic: 4406 Message: 4415

Paul,

Yes, I have part 1 of 2.

Thanks for checking.

Gene

----- Original Message -----
From: "PAUL VERHAGE" <paul.verhage@...>
To: <GPSL@yahoogroups.com>
Sent: Monday, June 30, 2008 9:12 AM
Subject: Re: [GPSL] Articles due July 1st - ATVQ

Gene, I'd like to confirm you have my PCB article.

Paul

>>> "Gene Harlan" <atvq@...> 06/28/08 8:08 AM >>>
Another reminder that articles for the Summer issue of Amateur Television
Quarterly are due by July 1st (or before). Thanks to those that have already
submitted theirs.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

Yahoo! Groups Links

4416. about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 18:16:58 UTC
From: Hank
Topic: 4416 Message: 4416

Same gas tank fittings for hydrogen as for helium?

Can the same regulator be used as for helium?

Hank

4417. Re: [GPSL] about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 18:19:25 UTC
From: Joe
Topic: 4416 Message: 4417

no

Hank wrote:

>Same gas tank fittings for hydrogen as for helium?
>
>Can the same regulator be used as for helium?
>
>Hank
>
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>
>Yahoo! Groups Links
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4418. RE: [GPSL] Final Helium or Hydrogen orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 18:34:09 UTC
From: Patterson, David
Topic: 4409 Message: 4418

Taylor University HARP would like one tank of He and two tanks of H2, and will have four in attendance:

Elliot Chalfant
Jeff Dailey
Zach Palmer
David Patterson

Thanks!

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of dlkaiser23
Sent: Sun 6/29/2008 8:05 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Final Helium or Hydrogen orders

We found a supply for helium and are taking orders for helium and hydrogen for GPSL.

The cost of helium will be $132/bottle, including delivery charges.

The cost for hydrogen will be $56/bottle, including delivery charges.

Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through, but for now i just need a final count for gas so we know what to order in total.

We need you to pre-pay for your gas, either through PayPal or send a check to Keith Kaiser at
6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until July 9, 2008.

Please let me know if you have any questions or concerns.

Deb Kaiser

4419. Re: [GPSL] BASE 25

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 18:47:41 UTC
From: BASE
Topic: 4408 Message: 4419

BASE 25 was successfully completed today. Launch at 14:55 UTC. Surface winds were between 20 and 30 miles per hour. Average ascent rate of 1100 feet/min. Maximum altitude of 97,800 feet. Landing at 17:09 UTC. Recovered by the resident filling his outdoor swimming pool. Landing site was in a raspberry patch (berries not yet ripe). Great circle distance of 32 miles at a heading of 184 degrees from the Northmont School launch site.

Data analysis has begun and additional information should be on the website (www.depauw.edu/acad/physics/base) within the next 24 hours.

Howard

--- On Sun, 6/29/08, BASE <basedepauw@...> wrote:
From: BASE <basedepauw@...>
Subject: [GPSL] BASE 25
To: "Balloon_Sked" <Balloon_Sked@yahoogroups.com>, "Ralph Wallio, W0RPK" <W0RPK@...>, "Ballooning Group" <ballooning@yahoogroups.com>, "Great Plains Superlaunch" <gpsl@yahoogroups.com>
Date: Sunday, June 29, 2008, 3:49 PM

Dear Friends,

BASE 25 - a 1200 gram balloon with 900 MHz spread spectrum live data downlink and APRS signal every two minutes at 144.39MHz - using call sign W9YJ-11 will carry the photometric atmospheric composition monitor and polarization measurement experiments. The launch is scheduled for 1500 UTC on 30 June from Northmont Schools in Crawfordsville, IN. We may launch up to an hour earlier if ready and necessary. Additional details at: www.depauw.edu/ acad/physics/ base

Howard

4420. Re: about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 19:43:21 UTC
From: Hank
Topic: 4416 Message: 4420

That's what I hoped would not be the case, but suspected otherwise by something I read on the internet. Not sure, but I think a group of gases, all of them inert, share the same fittings as helium. For example, argon is one of them.

Users new to hydrogen should keep this fact in mind that helium fittings will not go.

Hank
==========

> no

> >Same gas tank fittings for hydrogen as for helium?
> >
> >Can the same regulator be used as for helium?

4421. RE: [GPSL] Re: about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 19:55:47 UTC
From: Fraser, Don
Topic: 4416 Message: 4421

Hank;

And in searching for a Hydrogen regulator it appears that it shares left-hand thread with a number of flammable gases.. Depending on flow rates and input, output pressures, the costs for a new one ranged from $150 to $500 of so.

I used google> hydrogen gas regulator

Don Fraser
HP SWD R&D, Colorado Lab
Desk Phone: 719.548.3272
Cell Phone: 719.930.7761

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Hank
Sent: Monday, June 30, 2008 1:43 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: about using hydrogen

That's what I hoped would not be the case, but suspected
otherwise by something I read on the internet. Not sure,
but I think a group of gases, all of them inert, share the
same fittings as helium. For example, argon is one of them.

Users new to hydrogen should keep this fact in mind that
helium fittings will not go.

Hank
==========

> no

> >Same gas tank fittings for hydrogen as for helium?
> >
> >Can the same regulator be used as for helium?

4422. Re: [GPSL] Re: about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 20:01:48 UTC
From: Joe
Topic: 4416 Message: 4422

that could be the common factor?

inert and non flammable right had thread,

flammable lefty just to make a double blind redundant fool proof safety factor so someone can not even by accident hook up to the wrong type of tank.

that very well could be

Joe & NSS

Hank wrote:

>That's what I hoped would not be the case, but suspected
>otherwise by something I read on the internet. Not sure,
>but I think a group of gases, all of them inert, share the
>same fittings as helium. For example, argon is one of them.
>
>Users new to hydrogen should keep this fact in mind that
>helium fittings will not go.
>
>Hank
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>>>Same gas tank fittings for hydrogen as for helium?
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>>>Can the same regulator be used as for helium?
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4423. Re: [GPSL] Re: about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 20:43:13 UTC
From: BASE
Topic: 4416 Message: 4423

Dear friends,

The left handed threads are not just for flammable, but includes other nasty things (e.g., highly corrosive like the halogen gases (fluorine, chlorine, etc.)). It is a final safety barrier. Of course, one could still get in trouble by changing the input nipple on the regulator.

Howard

--- On Mon, 6/30/08, Joe <nss@...> wrote:
From: Joe <nss@mwt.net>
Subject: Re: [GPSL] Re: about using hydrogen
To: GPSL@yahoogroups.com
Date: Monday, June 30, 2008, 4:01 PM

that could be the common factor?

inert and non flammable right had thread,

flammable lefty just to make a double blind redundant fool proof safety

factor so someone can not even by accident hook up to the wrong type of

tank.

that very well could be

Joe & NSS

Hank wrote:

>That's what I hoped would not be the case, but suspected

>otherwise by something I read on the internet. Not sure,

>but I think a group of gases, all of them inert, share the

>same fittings as helium. For example, argon is one of them.

>

>Users new to hydrogen should keep this fact in mind that

>helium fittings will not go.

>

>Hank

>========== ========= ========= ========= ========= ====

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>>>Same gas tank fittings for hydrogen as for helium?

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>>>Can the same regulator be used as for helium?

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>Yahoo! Groups Links

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4425. Helium and Hydrogen fittings

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 20:54:16 UTC
From: K. Mark Caviezel
Topic: 4425 Message: 4425

Ouch, helium prices are sky high!

Helium (and Argon, and Nitrogen) bottles have a CGA 380 inert gas fitting.

Hydrogen (and Ethylene, and Ethane, and Methane) bottles have a CGA 350 flammable gas fitting. You'll need a CGA 350 nut and nipple to convert a helium regulator to hydrogen, for those of you using regulators.

I strongly recommend use of a six point box end 11/16" wrench to remove the nipple from the regulator. I also recommend a 1 1/8" wrench (not an adjustable one) for installing the nipple nut onto the bottle.

- Mark

4426. Re: [GPSL] Helium and Hydrogen fittings

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 21:08:03 UTC
From: Joe
Topic: 4425 Message: 4426

Hi Mark,

Now this part is really funny. And I have yet to understand it either.
the regulator we have is stone age, It's got to be close to 50.
Yet no tools needed, we have ever since we forgot the large wrench as
you state below, we just hooked it up and went finger tight expeting it
to leakl sooo badly, funny, nothing.
The only time we ever had a leak at the bottle connection was that one
time where it had this huge ding in the fitting, and then a latex glove
fixed that,

funny huh?

K. Mark Caviezel wrote:

> Ouch, helium prices are sky high!
>
> Helium (and Argon, and Nitrogen) bottles have a CGA 380 inert gas
> fitting.
>
> Hydrogen (and Ethylene, and Ethane, and Methane) bottles have a CGA
> 350 flammable gas fitting. You'll need a CGA 350 nut and nipple to
> convert a helium regulator to hydrogen, for those of you using
> regulators.
>
> I strongly recommend use of a six point box end 11/16" wrench to
> remove the nipple from the regulator. I also recommend a 1 1/8"
> wrench (not an adjustable one) for installing the nipple nut onto the
> bottle.
>
> - Mark
>
>
>

4427. Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 21:28:58 UTC
From: wa8rc
Topic: 4427 Message: 4427

2 lunches for Ron & Tim Cathcart, already paid thru paypal link.
Looking forward to meeting you all during GPSL 2008...

While I am posting here I have a basic question. What are people using for the balloon load line. Far 101 says 50lb test and I will be using a flight termination unit IE hot wire cutter. Kite sting is easy to find in 50 lb test rating, and it is polyester braid material. Before I order a bunch of this stuff I wanted to confirm it would melt when using the hot wire cut down method. Open to suggestions if others are using something different.

Thanks

Ron Cathcart
WA8RC
Battle Creek, MI

4428. Fwd: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 21:44:30 UTC
From: Brian Short, KCØBS
Topic: 4428 Message: 4428
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4429. Re: Fwd: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 21:59:45 UTC
From: Joe
Topic: 4428 Message: 4429

What I would like to know is what is everyone flying?

Modes, freqs etc.?
Joe & NSS

Brian Short, KC?BS wrote:

> I would be happy to serve as central coordination point if you
> like.....everyone should send me:
>
> 1) Primary Tracking Freq requested:
> a) Do you have Freq agile equip?
> b) callsign & SSID
>
> 2) Alt Tracking Freq requested:
> a) Do you have Freq agile equip?
> b) callsign & SSID
>
> 3) Other Mode Freq requested:
> Mode:
> a) Do you have Freq agile equip?
> b) callsign
>
> 4) Other Mode Freq requested 2:
> Mode:
> a) Do you have Freq agile equip?
> b) callsign
>
> send it to kcshorty@... <mailto:kcshorty@...>
>
> 73
>
>
> On Mon, Jun 30, 2008 at 12:02 AM, Nicholas Stich <NStich@...
> <mailto:NStich@...>> wrote:
>
> I know that frequency coordination is going to be handled by
> somebody in our group (NSV) but I thought I would start the
> discussion.
>
> I would like to get my packages setup and tested, thus I would like
> to settle on a frequency and time slot.
>
> I would like to use two 2M APRS systems and a 70cm unit. I would
> like to suggest a 6 second slot, which would allow up to 10
> balloons/packages to be on one frequency.

>
> I would 144.99 with slot 13-18 & 18-24. I am open to suggestions on
> the 70cm band ?
>
> The Balloon will be flown as N Stich - K0NMS. I also plan on flying
> my balloon on hydrogen.
>
> Suggestion & Comments Welcome.
>
> Best Regards,
> Nick
>
>
>
>
> --
> Brian L Short, PMP--KC?BS
> JOCO ARES EC ks0jc.com <http://ks0jc.com>, k0ham.com
> <http://k0ham.com>, ksrepeater.com <http://ksrepeater.com>, kcaprs.org
> <http://kcaprs.org>
>
>
>
> --
> Brian L Short, PMP--KC?BS
> JOCO ARES EC ks0jc.com <http://ks0jc.com>, k0ham.com
> <http://k0ham.com>, ksrepeater.com <http://ksrepeater.com>, kcaprs.org
> <http://kcaprs.org>

4430. Re: Fwd: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 22:00:21 UTC
From: Brian Short, KCØBS
Topic: 4428 Message: 4430
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4431. Re: Fwd: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 22:19:58 UTC
From: Joe
Topic: 4428 Message: 4431

Not gonna be there, sorry, just not possible, a few know why.

Joe

Brian Short, KC?BS wrote:

> Well, tell me what you are flying, and I will compile the list and
> share it!
>
>
> On Mon, Jun 30, 2008 at 4:59 PM, Joe <nss@...
> <mailto:nss@...>> wrote:
>
> What I would like to know is what is everyone flying?
>
> Modes, freqs etc.?
> Joe & NSS
>
>
>
> Brian Short, KC?BS wrote:
>
> > I would be happy to serve as central coordination point if you
> > like.....everyone should send me:
> >
> > 1) Primary Tracking Freq requested:
> > a) Do you have Freq agile equip?
> > b) callsign & SSID
> >
> > 2) Alt Tracking Freq requested:
> > a) Do you have Freq agile equip?
> > b) callsign & SSID
> >
> > 3) Other Mode Freq requested:
> > Mode:
> > a) Do you have Freq agile equip?
> > b) callsign
> >
> > 4) Other Mode Freq requested 2:
> > Mode:
> > a) Do you have Freq agile equip?
> > b) callsign
> >
> > send it to kcshorty@... <mailto:kcshorty%40gmail.com>
> <mailto:kcshorty@... <mailto:kcshorty%40gmail.com>>
>

> >
> > 73
> >
> >
> > On Mon, Jun 30, 2008 at 12:02 AM, Nicholas Stich <NStich@...
> <mailto:NStich%40aol.com>
> > <mailto:NStich@... <mailto:NStich%40aol.com>>> wrote:
> >
> > I know that frequency coordination is going to be handled by
> > somebody in our group (NSV) but I thought I would start the
> > discussion.
> >
> > I would like to get my packages setup and tested, thus I would like
> > to settle on a frequency and time slot.
> >
> > I would like to use two 2M APRS systems and a 70cm unit. I would
> > like to suggest a 6 second slot, which would allow up to 10
> > balloons/packages to be on one frequency.
> >
> > I would 144.99 with slot 13-18 & 18-24. I am open to suggestions on
> > the 70cm band ?
> >
> > The Balloon will be flown as N Stich - K0NMS. I also plan on flying
> > my balloon on hydrogen.
> >
> > Suggestion & Comments Welcome.
> >
> > Best Regards,
> > Nick
> >
> >
> >
> >
> > --
> > Brian L Short, PMP--KC?BS
> > JOCO ARES EC ks0jc.com <http://ks0jc.com> <http://ks0jc.com>,
> k0ham.com <http://k0ham.com>
> > <http://k0ham.com>, ksrepeater.com <http://ksrepeater.com>
> <http://ksrepeater.com>, kcaprs.org <http://kcaprs.org>
> > <http://kcaprs.org>
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> > JOCO ARES EC ks0jc.com <http://ks0jc.com> <http://ks0jc.com>,
> k0ham.com <http://k0ham.com>
> > <http://k0ham.com>, ksrepeater.com <http://ksrepeater.com>
> <http://ksrepeater.com>, kcaprs.org <http://kcaprs.org>

> > <http://kcaprs.org>
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> --
> Brian L Short, PMP--KC?BS
> JOCO ARES EC ks0jc.com <http://ks0jc.com>, k0ham.com
> <http://k0ham.com>, ksrepeater.com <http://ksrepeater.com>, kcaprs.org
> <http://kcaprs.org>

4432. RE: [GPSL] Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 23:15:52 UTC
From: Roger Hammond
Topic: 4410 Message: 4432

CNNSP - 2 for lunch

Rog KCØMWM

4433. Re: [GPSL] Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-06-30 23:16:32 UTC
From: wb8elk@aol.com
Topic: 4410 Message: 4433

WB8ELK - 2 lunch orders

**********Gas prices getting you down? Search AOL Autos for
fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

4434. Re: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 04:36:59 UTC
From: Mike Manes
Topic: 4411 Message: 4434

Hi Nick,

EOSS will have 147.555 and 445.975 in use for its crossband repeater, and it's rockbound there. We plan on using 144.340 for APRS, and we can slot. But we may also have a digi running there (alias EOSS) as well as approximately slotted telemetry, so 6-sec slots may be a bit tight. We'll also have a DF beacon/cmd on 145.600 running 30/30 on/off and ATV on 426.5 MHz DSB AM.

Suggest 144.36 and 144.39 slotted at 15 sec, with 144.39 used for non-slotted beacons (some digi is likely to hear most beacons, even if some collide). Might check if 144.99 is in use for a cluster or BBS in the KC area.

73 de Mike W5VSI
CTO EOSS

Nicholas Stich wrote:
> I know that frequency coordination is going to be handled by
> somebody in our group (NSV) but I thought I would start the
> discussion.
>
> I would like to get my packages setup and tested, thus I would like
> to settle on a frequency and time slot.
>
> I would like to use two 2M APRS systems and a 70cm unit. I would
> like to suggest a 6 second slot, which would allow up to 10
> balloons/packages to be on one frequency.
>
> I would 144.99 with slot 13-18 & 18-24. I am open to suggestions on
> the 70cm band ?
>
> The Balloon will be flown as N Stich - K0NMS. I also plan on flying
> my balloon on hydrogen.
>
> Suggestion & Comments Welcome.
>
> Best Regards,
> Nick
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4435. Re: [GPSL] about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 05:30:07 UTC
From: Mike Manes
Topic: 4416 Message: 4435

Per Harry, no and yes.
73 de Mike W5VSI

Hank wrote:
> Same gas tank fittings for hydrogen as for helium?
>
> Can the same regulator be used as for helium?
>
> Hank
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4436. Re: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 04:34:36 UTC
From: wb8elk@aol.com
Topic: 4411 Message: 4436

Some of my payload frequencies planned for GPSL:

WB8ELK balloon:

- APRS #1: WB8ELK-11 (fixed on 144.39)
- APRS #2: WB8ELK-12 (can go any frequency with this one)

- ATV: 439.25 MHz

- HF: 28.173 MHz (RTTY, Hellscreiber, DominoEX5)

==========

Bill WB8ELK

**********Gas prices getting you down? Search AOL Autos for
fuel-efficient used cars. (http://autos.aol.com/used?ncid=aolaut00050000000007)

4437. Re: [GPSL] Re: about using hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 05:40:02 UTC
From: Mike Manes
Topic: 4416 Message: 4437

Perhaps our He regulator can be fitted with a hydrogen (left-hand thread) tank fitting?

Any special characteristics for a hydrogen 2-stage regulator vs. one for He?

73 de Mike W5VSI

Fraser, Don wrote:
> Hank;
>
> And in searching for a Hydrogen regulator it appears that it shares
> left-hand thread with a number of flammable gases.. Depending on flow
> rates and input, output pressures, the costs for a new one ranged from
> $150 to $500 of so.
>
> I used google> hydrogen gas regulator
>
>
> Don Fraser
> HP SWD R&D, Colorado Lab
> Desk Phone: 719.548.3272
> Cell Phone: 719.930.7761
>
>
>
> ---
> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf Of
> *Hank
> *Sent:* Monday, June 30, 2008 1:43 PM
> *To:* GPSL@yahoogroups.com
> *Subject:* [GPSL] Re: about using hydrogen
>
> That's what I hoped would not be the case, but suspected
> otherwise by something I read on the internet. Not sure,
> but I think a group of gases, all of them inert, share the
> same fittings as helium. For example, argon is one of them.
>
> Users new to hydrogen should keep this fact in mind that
> helium fittings will not go.
>
> Hank
> ==========
>
> > no
>
> > > >Same gas tank fittings for hydrogen as for helium?

> > >
> > >Can the same regulator be used as for helium?
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4438. Re: [GPSL] Helium and Hydrogen fittings

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 05:53:19 UTC
From: Mike Manes
Topic: 4425 Message: 4438

The NWS guidance dox say to use a regulator between the tank and the fill hose, but we abandoned our He regulator some time ago, since it tended to freeze up in humid environs, and have have been controlling the fill flow thru a 1/2 rubber air hose just using the tank valve.

So, is a regulator really necessary? Is it there to prevent that oft-reported ignition when cracking the tank valve? I'm told that ignition produces just a benign "pop" when flow is into to a constrained system, since it consumes just the little O2 present near the the tank outlet and doesn't propagate farther.

73 de Mike W5VSI

K. Mark Caviezel wrote:
> Ouch, helium prices are sky high!
>
> Helium (and Argon, and Nitrogen) bottles have a CGA 380 inert gas fitting.
>
> Hydrogen (and Ethylene, and Ethane, and Methane) bottles have a CGA 350
> flammable gas fitting. You'll need a CGA 350 nut and nipple to
> convert a helium regulator to hydrogen, for those of you using
> regulators.
>
> I strongly recommend use of a six point box end 11/16" wrench to remove
> the nipple from the regulator. I also recommend a 1 1/8" wrench (not an
> adjustable one) for installing the nipple nut onto the bottle.
>
> - Mark
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4439. Re: [GPSL] Helium and Hydrogen fittings

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 05:56:48 UTC
From: Mike Manes
Topic: 4425 Message: 4439

I have mess of teflon thread tape if one doesn't want to waste a latex glove :=}.
Mike

Joe wrote:
> Hi Mark,
>
> Now this part is really funny. And I have yet to understand it either.
> the regulator we have is stone age, It's got to be close to 50.
> Yet no tools needed, we have ever since we forgot the large wrench as
> you state below, we just hooked it up and went finger tight expeting it
> to leakl sooo badly, funny, nothing.
> The only time we ever had a leak at the bottle connection was that one
> time where it had this huge ding in the fitting, and then a latex glove
> fixed that,
>
> funny huh?
>
> K. Mark Caviezel wrote:
>
>> Ouch, helium prices are sky high!
>>
>> Helium (and Argon, and Nitrogen) bottles have a CGA 380 inert gas
>> fitting.
>>
>> Hydrogen (and Ethylene, and Ethane, and Methane) bottles have a CGA
>> 350 flammable gas fitting. You'll need a CGA 350 nut and nipple to
>> convert a helium regulator to hydrogen, for those of you using
>> regulators.
>>
>> I strongly recommend use of a six point box end 11/16" wrench to
>> remove the nipple from the regulator. I also recommend a 1 1/8"
>> wrench (not an adjustable one) for installing the nipple nut onto the
>> bottle.
>>
>> - Mark
>>
>>
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>

>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4440. Re: [GPSL] Lunch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 06:12:49 UTC
From: Mike Manes
Topic: 4427 Message: 4440

Hi Ron,

FAR 101 states "an IMPACT FORCE of 50 pounds" [emphasis supplied] ... don't make the common mistake of confusing that with tensile strength, which is measured using a gradually applied stress. Quite a few balloonists who have made that error and used 50# fishing line have observed their balloons soar skyward at an astounding rate, unburdened by the payload string left behind at the launch site.

I have never found a definition, ad hoc or otherwise, for "impact strength", but it's implicit that the intent here is to ensure that the payload line will break if it's hit by an aircraft. Some back-of-envelope calculations show that such a collision at 150 MPH would accelerate a 6 lb payload to over 20 G's using woven nylon line. So stick with 240 lb woven nylon, and grant that even the best knot will cut the tensile strength in half.

Scuba shops carry a variety of woven (eschew twisted!) natural nylon line - with warrants that no nylons were harmed in their production :=}.

Oh, and use double-loop bowlines - easy on the line and easy to untie after being pulled tight.

73 de Mike W5VSI
CTO EOSS

wa8rc wrote:
> 2 lunches for Ron & Tim Cathcart, already paid thru paypal link.
> Looking forward to meeting you all during GPSL 2008...
>
> While I am posting here I have a basic question. What are people using
> for the balloon load line. Far 101 says 50lb test and I will be using a
> flight termination unit IE hot wire cutter. Kite sting is easy to find
> in 50 lb test rating, and it is polyester braid material. Before I
> order a bunch of this stuff I wanted to confirm it would melt when
> using the hot wire cut down method. Open to suggestions if others are
> using something different.
>
> Thanks
>
> Ron Cathcart
> WA8RC
> Battle Creek, MI
>
>
>
> ------------------------------------

>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4442. Taylor Freq. Use

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 12:40:47 UTC
From: Jeff Dailey
Topic: 4442 Message: 4442

Taylor U. will be flying two ballloons at GPSL.
1) 900 Mhz Spread Spectrum Command Uplink / Downlink, 2.4 Ghz POD Network, 900 Mhz Spread Spectrum HALO Network, APRS 144.39 KB9ZNZ-11.
2) 900 Mhz Spread Spectrum BUSAT Uplink / 900Mhz Spread Spectrum HALO Network, APRS 144.39 KB9ZNZ-10.
We will have two extra HALO Pods with us for other teams to fly, 900 Mhz Spread Spectrum HALO Network, APRS 144.39 KB9ZNZ-5, KB9ZNZ-6
Jeff Dailey

4443. Re: Fwd: [GPSL] GPSL Frequency & Time Slots

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-01 19:59:48 UTC
From: BASE
Topic: 4428 Message: 4443

BASE (DePauw):

Primary tracking: 900 MHz spread spectrum. We've flown with Taylor before with no cross-talk problems.

Secondary tracking - frequency fixed 144.39 MHz using W9YJ-11

Pod-to-Pod on 2.4 Ghz (shouldn't cause any problems)

Howard

--- On Mon, 6/30/08, Brian Short, KCØBS <kcshorty@...> wrote:
From: Brian Short, KCØBS <kcshorty@...>
Subject: Fwd: [GPSL] GPSL Frequency & Time Slots
To: wa0tjt@..., gpsl@yahoogroups.com
Date: Monday, June 30, 2008, 5:44 PM

I would be happy to serve as central coordination point if you like.....everyone should send me:

1) Primary Tracking Freq requested:
a) Do you have Freq agile equip?

b) callsign & SSID

2) Alt Tracking Freq requested: a) Do you have Freq agile equip?

b) callsign & SSID

3) Other Mode Freq requested:
Mode: a) Do you have Freq agile equip?

b) callsign

4) Other Mode Freq requested 2:

Mode: a) Do you have Freq agile equip?

b) callsign

send it to kcshorty@gmail. com

73

On Mon, Jun 30, 2008 at 12:02 AM, Nicholas Stich <NStich@...> wrote:

I know that frequency coordination is going to be handled by

somebody in our group (NSV) but I thought I would start the

discussion.

I would like to get my packages setup and tested, thus I would like

to settle on a frequency and time slot.

I would like to use two 2M APRS systems and a 70cm unit. I would

like to suggest a 6 second slot, which would allow up to 10

balloons/packages to be on one frequency.

I would 144.99 with slot 13-18 & 18-24. I am open to suggestions on

the 70cm band ?

The Balloon will be flown as N Stich - K0NMS. I also plan on flying

my balloon on hydrogen.

Suggestion & Comments Welcome.

Best Regards,

Nick

--
Brian L Short, PMP--KCØBS
JOCO ARES EC ks0jc.com, k0ham.com, ksrepeater.com, kcaprs.org

--
Brian L Short, PMP--KCØBS
JOCO ARES EC ks0jc.com, k0ham.com, ksrepeater.com, kcaprs.org

4444. EOSS GPSL Freq Request

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-02 03:21:30 UTC
From: Nick Hanks
Topic: 4444 Message: 4444

Brian,

EOSS requests the following frequencies for use during the 2008 GPSL flight.

1) Primary tracking freq requested: 144.34 MHZ
a) Do you have freq agile equip? Yes (Can change to freq that GPSL ground I-gates will be using or 144.39 MHz to use Kansas City APRS digipeaters)

b) Call sign & SSID: AEØSS-11

2) Alt tracking freq requested: 147.555 MHz Down, 445.975 MHz Up
(Crossband repeater and APRS Beacon in one package). Don□t expect this freq to be I-gated

a) Do you have freq agile equip? No

b) Call sign & SSID: W0WYX

3) Other mode freq requested: 426.25 MHz Down
a) Mode: ATV

b) Do you have freq agile equip? No

c) Call sign: W5VSI

4) Other mode freq requested 2: CW Beacon 145.600 MHz
a) Mode: CW (Sends □DE AE0SS□and then tone) once every minute for 30 sec.

b) Do you have freq agile equip? Yes

c) Call sign: AE0SS

Thanks for coordinating frequency use for GPSL. Very helpful.

73,

Nick

NØLP

EOSS GPSL Coordinator

4445. Re: EOSS GPSL Freq Request

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-02 18:00:04 UTC
From: Mike Manes
Topic: 4444 Message: 4445

Might also get input on APRS time slotting capabilities. Some beacons will initialize GPS time only on the first valid RMC or GGA, and then use RC or piezo clock afterwards, so they can drift quite a few seconds over a couple of hours, especially at temperature extremes. Other beacons use much more stable clocks, while others update slot timing every RMC or GGA frame.

Best to allow some slop between slot assignments to accommodate this drift.

73 de Mike W5VSI
CTO EOSS

Nick Hanks wrote:
> Brian,
>
>
>
> EOSS requests the following frequencies for use during the 2008 GPSL flight.
>
>
>
> 1) Primary tracking freq requested: 144.34 MHZ
> a) Do you have freq agile equip? Yes (Can change to freq that GPSL
> ground I-gates will be using or 144.39 MHz to use Kansas City APRS
> digipeaters)
>
> b) Call sign & SSID: AEØSS-11
>
> 2) Alt tracking freq requested: 147.555 MHz Down, 445.975 MHz Up
> (Crossband repeater and APRS Beacon in one package). Don’t expect this
> freq to be I-gated
>
> a) Do you have freq agile equip? No
>
> b) Call sign & SSID: W0WYX
>
> 3) Other mode freq requested: 426.25 MHz Down
> a) Mode: ATV
>
> b) Do you have freq agile equip? No
>
> c) Call sign: W5VSI
>
> 4) Other mode freq requested 2: CW Beacon 145.600 MHz
> a) Mode: CW (Sends “DE AE0SS”and then tone) once every minute for
> 30 sec.
>

> b) Do you have freq agile equip? Yes
>
> c) Call sign: AE0SS
>
>
>
> Thanks for coordinating frequency use for GPSL. Very helpful.
>
>
>
>
>
> 73,
>
>
>
> Nick
>
> NØLP
>
> EOSS GPSL Coordinator
>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4446. First Totex failure Ever?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-02 17:53:08 UTC
From: Joe
Topic: 4446 Message: 4446

Hi All,

Witht he conversation of all the lists on long duration ballooning. And how the latex ones are supposedbly to rot pretty fast . so when we made our last order for some smaller balloons for more versatile flight profiles on odd windy days, we added 300 and 600 gram balloons to the supply.

but i threw into the mix a tiny 100 gram balloon.

Ive read from a totex web site how they are made, where the thick neck portion isn't made at the same time as the rest of the balloon but they are joined together while making the balloon itself.
it is a cute balloon, Barely inflated diameter of 13"

burst of 77"

so I decided to make a test. I made a 5/8ths wave vertical for 80 meters. 150 to 160 feet tall, and inflated the balloon to about 36'"diameter.
And launched it yesterday at 3 Pm local time.

It was a blast to use! for one.

killer sigs on 80, like everything was 20+ and more, sadlt lightnigng was also, well s 9 non stop,, but was a blast. anyway that is not pertenent to this story.

I finally went to bed a bout midnight,, having,, just too much fun playing with it.

When i got up this morning and went out to look at it, hmm no balloon! did it pop?

Follow the antenna laying across the ground anf find the what is left of balloon.

It did not POP. but the neck portion cleanly seperated from the balloon portion, as if they had a poor connection.

a perfect and clean end, I stuffed a image in the photos section, as seen here.

http://ph.groups.yahoo.com/group/GPSL/photos/view/cdd9?b=2&m=f&o=0

After 20 years, and all those flights, this is the first time a seperation like this has happened to us.

I'm going to see if I can locate the envelope.

it should have defaleted fairly quickly, and there was no or very little wind yesterday so hopeing it shouldn't have gone far.

Joe

4447. Re: [GPSL] First Totex failure Ever?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-02 20:26:56 UTC
From: Mike Manes
Topic: 4446 Message: 4447

Hi Joe,

EOSS experienced a premature burst of a Totex 3000 gm a few years ago. It was carrying about 22 lb - lighter than typical - and it flat out burst at about 65K'. We've seen Totex 3000's carrying 25 lb make over 100K', and every other one has made over 85K'. We've experienced one "leaker" that lost lift gradually and floated at 45K' until we commanded a cutdown.

So yeah, nobody makes perfect latex, but Totex has been very, very good to us over the years.

The photo is a tad overexposed, so can't tell for sure, but it looks like the reinforced neck extends just halfway up the shard - the rest looks like envelope material, although I agree that the separated end sure looks clean. So maybe it did burst after hitting the deck after cooling overnight and/or catching a gust of wind? That happened to us one FD years ago.

73 de Mike W5VSI, EOSS

Joe wrote:
> Hi All,
>
> Witht he conversation of all the lists on long duration ballooning. And
> how the latex ones are supposedbly to rot pretty fast . so when we made
> our last order for some smaller balloons for more versatile flight
> profiles on odd windy days, we added 300 and 600 gram balloons to the
> supply.
>
> but i threw into the mix a tiny 100 gram balloon.
>
> Ive read from a totex web site how they are made, where the thick neck
> portion isn't made at the same time as the rest of the balloon but they
> are joined together while making the balloon itself.
> it is a cute balloon, Barely inflated diameter of 13"
>
> burst of 77"
>
> so I decided to make a test. I made a 5/8ths wave vertical for 80
> meters. 150 to 160 feet tall, and inflated the balloon to about
> 36'"diameter.
> And launched it yesterday at 3 Pm local time.
>
> It was a blast to use! for one.
>
> killer sigs on 80, like everything was 20+ and more, sadlt lightnigng
> was also, well s 9 non stop,, but was a blast. anyway that is not

> pertenent to this story.
>
> I finally went to bed a bout midnight,, having,, just too much fun
> playing with it.
>
> When i got up this morning and went out to look at it, hmm no
> balloon! did it pop?
>
> Follow the antenna laying across the ground anf find the what is left
> of balloon.
>
> It did not POP. but the neck portion cleanly seperated from the balloon
> portion, as if they had a poor connection.
>
> a perfect and clean end, I stuffed a image in the photos section, as
> seen here.
>
> http://ph.groups.yahoo.com/group/GPSL/photos/view/cdd9?b=2&m=f&o=0
>
>
> After 20 years, and all those flights, this is the first time a
> seperation like this has happened to us.
>
> I'm going to see if I can locate the envelope.
>
> it should have defaleted fairly quickly, and there was no or very little
> wind yesterday so hopeing it shouldn't have gone far.
>
> Joe
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4448. Re: [GPSL] First Totex failure Ever?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-02 20:06:15 UTC
From: Joe
Topic: 4446 Message: 4448

No way this hit the deck,

The wire was aluminum fence wire. it was incredibly lightweight, even
if the balloon lost 505 of it's lift it still would have had 200% lift.

so that's not an option.

Winds were nothing all evening and called for dead calm all night, and
when woke up this am it still was dead calm. soo a gust shouldn't be
it either

DON'T GET ME WRONG!! Paul and the Totex balloons are the best out
there. i used many a Kaysam, and they honestly deserved to go out of
business!

Joe

Mike Manes wrote:

> Hi Joe,
>
> EOSS experienced a premature burst of a Totex 3000 gm a few years
> ago. It was
> carrying about 22 lb - lighter than typical - and it flat out burst at
> about
> 65K'. We've seen Totex 3000's carrying 25 lb make over 100K', and
> every other
> one has made over 85K'. We've experienced one "leaker" that lost lift
> gradually and floated at 45K' until we commanded a cutdown.
>
> So yeah, nobody makes perfect latex, but Totex has been very, very
> good to us
> over the years.
>
> The photo is a tad overexposed, so can't tell for sure, but it looks like
> the reinforced neck extends just halfway up the shard - the rest looks
> like
> envelope material, although I agree that the separated end sure looks
> clean.
> So maybe it did burst after hitting the deck after cooling overnight
> and/or catching a gust of wind? That happened to us one FD years ago.
>
> 73 de Mike W5VSI, EOSS
>
> Joe wrote:
>
>> Hi All,

>>
>> Witht he conversation of all the lists on long duration ballooning.
>> And how the latex ones are supposedbly to rot pretty fast . so when
>> we made our last order for some smaller balloons for more versatile
>> flight profiles on odd windy days, we added 300 and 600 gram
>> balloons to the supply.
>>
>> but i threw into the mix a tiny 100 gram balloon.
>>
>> Ive read from a totex web site how they are made, where the thick
>> neck portion isn't made at the same time as the rest of the balloon
>> but they are joined together while making the balloon itself.
>> it is a cute balloon, Barely inflated diameter of 13"
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>> so I decided to make a test. I made a 5/8ths wave vertical for 80
>> meters. 150 to 160 feet tall, and inflated the balloon to about
>> 36'"diameter.
>> And launched it yesterday at 3 Pm local time.
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>> lightnigng was also, well s 9 non stop,, but was a blast. anyway
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>> balloon! did it pop?
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>> Follow the antenna laying across the ground anf find the what is
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>> It did not POP. but the neck portion cleanly seperated from the
>> balloon portion, as if they had a poor connection.
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>> a perfect and clean end, I stuffed a image in the photos section, as
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>> http://ph.groups.yahoo.com/group/GPSL/photos/view/cdd9?b=2&m=f&o=0
>>
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>> After 20 years, and all those flights, this is the first time a
>> seperation like this has happened to us.
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>> I'm going to see if I can locate the envelope.
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>> it should have defaleted fairly quickly, and there was no or very
>> little wind yesterday so hopeing it shouldn't have gone far.
>>
>> Joe
>>
>>
>> ------------------------------------
>>
>> Yahoo! Groups Links
>>
>>
>>
>>
>

4449. Re: [GPSL] First Totex failure Ever?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-03 00:27:45 UTC
From: Mike Manes
Topic: 4446 Message: 4449

OK, then, you mighta got a lemon after all. Might be worth another shot?
Coulda been some dood with a 22?

That FD vertical we did was a 5/8 wave at 160m made from #24 AWG hookup
wire. We needed two balloons to keep it up - one at the midpoint of
the wire - don't recall the size, tho. And, man, it was a real humdinger
while it lasted! BTW, it's NEVER calm along the foothills where we were
sited.

Mike

Joe wrote:
> No way this hit the deck,
>
> The wire was aluminum fence wire. it was incredibly lightweight, even
> if the balloon lost 505 of it's lift it still would have had 200% lift.
>
> so that's not an option.
>
> Winds were nothing all evening and called for dead calm all night, and
> when woke up this am it still was dead calm. soo a gust shouldn't be
> it either
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> DON'T GET ME WRONG!! Paul and the Totex balloons are the best out
> there. i used many a Kaysam, and they honestly deserved to go out of
> business!
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> Joe
>
> Mike Manes wrote:
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>> Hi Joe,
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>> ago. It was
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>> one has made over 85K'. We've experienced one "leaker" that lost lift
>> gradually and floated at 45K' until we commanded a cutdown.
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>> So yeah, nobody makes perfect latex, but Totex has been very, very
>> good to us
>> over the years.
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>> The photo is a tad overexposed, so can't tell for sure, but it looks like
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>> envelope material, although I agree that the separated end sure looks
>> clean.
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>> and/or catching a gust of wind? That happened to us one FD years ago.
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>> 73 de Mike W5VSI, EOSS
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>>> Hi All,
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>>> flight profiles on odd windy days, we added 300 and 600 gram
>>> balloons to the supply.
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>>> but i threw into the mix a tiny 100 gram balloon.
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>>> neck portion isn't made at the same time as the rest of the balloon
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>>> meters. 150 to 160 feet tall, and inflated the balloon to about
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>>> And launched it yesterday at 3 Pm local time.
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>>> It was a blast to use! for one.
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>>> When i got up this morning and went out to look at it, hmm no
>>> balloon! did it pop?
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>>> Follow the antenna laying across the ground anf find the what is
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>>> It did not POP. but the neck portion cleanly seperated from the

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>>> Joe
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>>> Yahoo! Groups Links
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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4450. Re: [GPSL] First Totex failure Ever?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-03 00:31:46 UTC
From: Joe
Topic: 4446 Message: 4450

Not that that was a big deal, being it cost a whopping 7 bucks i think
7 or 9 he he he,

Oh i plan on doing it again, why two balloons/ what size and what did
it weigh/

The aliminum fence wire is fantastic,

don't remember the gauge off the top of my head, but one year we made a
full wave loop for 80 for a field day, fed with more of the same line
made into 450 ohm line. put it up as a diamond fashon. base of
diamond was at 100 feet. that was a fun antenna too,

all BIG signals, and every contact was a one caller!

Joe

Mike Manes wrote:

> OK, then, you mighta got a lemon after all. Might be worth another shot?
> Coulda been some dood with a 22?
>
> That FD vertical we did was a 5/8 wave at 160m made from #24 AWG hookup
> wire. We needed two balloons to keep it up - one at the midpoint of
> the wire - don't recall the size, tho. And, man, it was a real humdinger
> while it lasted! BTW, it's NEVER calm along the foothills where we were
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>
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> Joe wrote:
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>> Joe
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>>> 65K'. We've seen Totex 3000's carrying 25 lb make over 100K', and
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>>> lift gradually and floated at 45K' until we commanded a cutdown.
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>>> So yeah, nobody makes perfect latex, but Totex has been very, very
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>>> over the years.
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>>> the reinforced neck extends just halfway up the shard - the rest
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>>> envelope material, although I agree that the separated end sure
>>> looks clean.
>>> So maybe it did burst after hitting the deck after cooling overnight
>>> and/or catching a gust of wind? That happened to us one FD years ago.
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>>> 73 de Mike W5VSI, EOSS
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>>> Joe wrote:
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>>>> ballooning. And how the latex ones are supposedbly to rot pretty
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>>>> neck portion isn't made at the same time as the rest of the
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>>>> Follow the antenna laying across the ground anf find the what is
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>>>> It did not POP. but the neck portion cleanly seperated from the
>>>> balloon portion, as if they had a poor connection.
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>>>> http://ph.groups.yahoo.com/group/GPSL/photos/view/cdd9?b=2&m=f&o=0
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>>>> After 20 years, and all those flights, this is the first time a
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>>>> it should have defaleted fairly quickly, and there was no or very
>>>> little wind yesterday so hopeing it shouldn't have gone far.
>>>>
>>>> Joe
>>>>
>>>>
>>>> ------------------------------------
>>>>
>>>> Yahoo! Groups Links
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>

4451. Cluster Flight July 5

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-03 14:34:50 UTC
From: hhm_74115@cox.net
Topic: 4451 Message: 4451

Cluster balloon flight on July 5th 2008
Lawn Chair Larry would be proud!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

4452. Cluster Flight July 5

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-03 14:35:08 UTC
From: hhm_74115@cox.net
Topic: 4451 Message: 4452

Cluster balloon flight on July 5th 2008
Lawn Chair Larry would be proud!

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

4453. NSTAR will not be flying at GPSL this year

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-03 18:28:37 UTC
From: Mark Conner
Topic: 4453 Message: 4453
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4454. Re: [GPSL] NSTAR will not be flying at GPSL this year

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-04 02:35:40 UTC
From: PAUL VERHAGE
Topic: 4453 Message: 4454

NearSys will need help tracking. I won't have my tracking gear set up in time.

Pau

>>> "Mark Conner" <mconner1@...> 07/03/08 12:28 PM >>>
Hi all,

Due to a variety of circumstances, NSTAR will not be participating in the 2008 GPSL. We hope to be at the 2009 event, though, and we'll certainly miss seeing all the participants this year.

If it works out Wayne KE6DZD and I may come to KC on the morning of the launch to help other teams launch and chase, but that's pretty iffy right now.

73 de Mark N9XTN

4455. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-04 18:10:14 UTC
From: Mike Manes
Topic: 4455 Message: 4455

Hi Bruce,

The primary cause of flight string oscillation during ascent is wind shear, i.e., variations in horizontal wind velocity vs. altitude. This is Ma Nature's work, so there's nothing you can do to eliminate the cause. But, in that light, you could try two things that might mitigate the effects:

1. Shorten the flight string to minimize the shear differences between the top and bottom of the string, or

2. Rebuild your payload package to make it long (vertically) and skinny and round so as to minimize the lateral drag area and coefficient. This approach will also help immensely in stabilizing the descending payload string, since the it will let the payload housing serve as kind of a plumb bob.

Going to multiple packages will make things worse in that regard, although it's a great way to manage EMC issues such as desense of GPS receivers by beacon xmtrs, etc.

I know of no way to absolutely eliminate the "Sammy Kay" effect, other than to get up into the stratosphere where wind shear is minimal. Unless someone else knows a solution, you'll have to live with it.

73 de Mike W5VSI
CTO EOSS

Bruce Coates wrote:
> Hi
>
> We're preparing for our third flight and have been racking our brains
> about what, if anything, can be done to stabilize the payload as it
> ascends. On each flight it seems to start swinging in a circular motion
> below the balloon. Ideally we would like to minimize this movement but
> we're not sure how. Some ideas are:
>
> - Separate the single payload into smaller packages and therefore
> distribute the mass at the payload end of the line.
> - Use some type of swivel between the balloon and/or parachute and/or
> payload.
> - Use a spreader on the lines between payload and balloon.
> - Install fins on the payload
> - Use hundreds of pounds of motion sensors and computerized stabilizing
> systems. (ok that's crazy)
>
> To see our current configuration, check out
> http://sarl.ca/ve5aa/balloon.html. I also have a video clip of the lift

> off that shows the motion of the payload. I can send a copy to anyone
> interested.
>
> 73, Bruce
> VE5BNC
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4456. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-04 21:47:41 UTC
From: Joe
Topic: 4455 Message: 4456

Hi Bruce,

That was one weird motion.

We here at NSS has never had one rotate in a matter of a cone's motion
like that. Strange.

I'd suspect the long arms
and as long as you can get train would slow it down.

Bjut maybe not because i would not call that a pendulum motion. that
is moving in one direction only. something we have never had happen on
any of our flights.

Joe

Bruce Coates wrote:

>Hi Mike
>
>In our case, the only motion we're trying to minimize is the pendulum
>effect. http://sarl.ca/ve5aa/balloon_files/SABRE-2_Pendulum.wmv . The
>motion introduced by turbulence and wind shear is pretty tough to counteract
>and we'll just live with it.
>
>73, Bruce
>
>----- Original Message -----
>From: "Mike Manes" <mrmanes@...>
>To: <Ballooning@yahoogroups.com>
>Cc: "GPSL Balloon Reflector" <GPSL@yahoogroups.com>
>Sent: Friday, July 04, 2008 12:10 PM
>Subject: Re: [Ballooning] Stabilizing the payload
>
>
>
>
>>Hi Bruce,
>>
>>The primary cause of flight string oscillation during ascent is wind
>>shear,
>>i.e., variations in horizontal wind velocity vs. altitude. This is Ma
>>Nature's work, so there's nothing you can do to eliminate the cause. But,
>>in that light, you could try two things that might mitigate the effects:
>>
>>1. Shorten the flight string to minimize the shear differences between the
>>top

>>and bottom of the string, or
>>
>>2. Rebuild your payload package to make it long (vertically) and
>>skinny and round so as to minimize the lateral drag area and coefficient.
>>This approach will also help immensely in stabilizing the descending
>>payload
>>string, since the it will let the payload housing serve as kind of a plumb
>>bob.
>>
>>Going to multiple packages will make things worse in that regard, although
>>it's a great way to manage EMC issues such as desense of GPS receivers by
>>beacon xmtrs, etc.
>>
>>I know of no way to absolutely eliminate the "Sammy Kay" effect, other
>>than
>>to get up into the stratosphere where wind shear is minimal. Unless
>>someone
>>else knows a solution, you'll have to live with it.
>>
>>73 de Mike W5VSI
>>CTO EOSS
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>>Bruce Coates wrote:
>>
>>
>>>Hi
>>>
>>>We're preparing for our third flight and have been racking our brains
>>>about what, if anything, can be done to stabilize the payload as it
>>>ascends. On each flight it seems to start swinging in a circular motion
>>>below the balloon. Ideally we would like to minimize this movement but
>>>we're not sure how. Some ideas are:
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>>>payload.
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>>>systems. (ok that's crazy)
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>>>http://sarl.ca/ve5aa/balloon.html. I also have a video clip of the lift
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>>>interested.
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>>
>>To start sending messages to members of this group,
>>simply send email to
>>
>>Ballooning@yahoogroups.com
>>
>>If you do not wish to belong to Ballooning, you may
>>unsubscribe by sending an email to
>>
>>Ballooning-unsubscribe@yahoogroups.com
>>
>>You may also visit the eGroups web site to modify your
>>subscriptions:
>>
>>http://groups.yahoo.com/group/Ballooning
>>
>>To email the list Owner, just send a message to the
>>following address:
>>
>>Ballooning-owner@yahoogroups.com
>>
>>
>>Regards,
>>
>>Moderator, Ballooning
>>
>>
>>Yahoo! Groups Links
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>
>Ballooning@yahoogroups.com
>

>If you do not wish to belong to Ballooning, you may
>unsubscribe by sending an email to
>
>Ballooning-unsubscribe@yahoogroups.com
>
>You may also visit the eGroups web site to modify your
>subscriptions:
>
>http://groups.yahoo.com/group/Ballooning
>
>To email the list Owner, just send a message to the
>following address:
>
>Ballooning-owner@yahoogroups.com
>
>
>Regards,
>
>Moderator, Ballooning
>
>
>Yahoo! Groups Links
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4457. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-05 03:31:46 UTC
From: Mike Manes
Topic: 4455 Message: 4457

Hi Bruce,

What I wanted to convey is that the "pendulum effect" aka "Sammy Kay Effect" ("Swing and sway with Sammy Kay!" for you post-boomers) is mainly caused by wind shear. Joe Mayenshein's long arms primarily slow spinning by adding rotational intertia to the package - but won't help penduluming much.

Mike

Bruce Coates wrote:
> Hi Mike
>
> In our case, the only motion we're trying to minimize is the pendulum
> effect. http://sarl.ca/ve5aa/balloon_files/SABRE-2_Pendulum.wmv . The
> motion introduced by turbulence and wind shear is pretty tough to counteract
> and we'll just live with it.
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> 73, Bruce
>
> ----- Original Message -----
> From: "Mike Manes" <mrmanes@...>
> To: <Ballooning@yahoogroups.com>
> Cc: "GPSL Balloon Reflector" <GPSL@yahoogroups.com>
> Sent: Friday, July 04, 2008 12:10 PM
> Subject: Re: [Ballooning] Stabilizing the payload
>
>
>> Hi Bruce,
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>> shear,
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>> Bruce Coates wrote:
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>>> - Use hundreds of pounds of motion sensors and computerized stabilizing
>>> systems. (ok that's crazy)
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>>> http://sarl.ca/ve5aa/balloon.html. I also have a video clip of the lift
>>> off that shows the motion of the payload. I can send a copy to anyone
>>> interested.
>>>
>>> 73, Bruce
>>> VE5BNC
>>>
>> --
>> Mike Manes mrmanes@... Tel: 303-979-4899
>> "Things should be made as simple as possible, but not more so."
>> A. Einstein
>>
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4458. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-05 03:06:19 UTC
From: Joe
Topic: 4455 Message: 4458

Mike,,

What do you think caused that cone spiral effect they had?

We never had a flight do that, of course we has spin anlong the payload
axis, and a side to side swing like the pendulum of a clock. but we
never had a continous conic shape spin,

except on the trip down we would have a spin like that is the chute
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Joe

Mike Manes wrote:

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>("Swing and sway with Sammy Kay!" for you post-boomers) is mainly caused by
>wind shear. Joe Mayenshein's long arms primarily slow spinning by adding
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>Mike
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>Bruce Coates wrote:
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>>In our case, the only motion we're trying to minimize is the pendulum
>>effect. http://sarl.ca/ve5aa/balloon_files/SABRE-2_Pendulum.wmv . The
>>motion introduced by turbulence and wind shear is pretty tough to counteract
>>and we'll just live with it.
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>>73, Bruce
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>>----- Original Message -----
>>From: "Mike Manes" <mrmanes@...>
>>To: <Ballooning@yahoogroups.com>
>>Cc: "GPSL Balloon Reflector" <GPSL@yahoogroups.com>
>>Sent: Friday, July 04, 2008 12:10 PM
>>Subject: Re: [Ballooning] Stabilizing the payload
>>
>>
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>>>The primary cause of flight string oscillation during ascent is wind
>>>shear,
>>>i.e., variations in horizontal wind velocity vs. altitude. This is Ma
>>>Nature's work, so there's nothing you can do to eliminate the cause. But,
>>>in that light, you could try two things that might mitigate the effects:
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>>>1. Shorten the flight string to minimize the shear differences between the
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>>>2. Rebuild your payload package to make it long (vertically) and
>>>skinny and round so as to minimize the lateral drag area and coefficient.
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>>>it's a great way to manage EMC issues such as desense of GPS receivers by
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4459. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-05 04:40:51 UTC
From: Mike Manes
Topic: 4455 Message: 4459

Hi Joe,

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>>> ----- Original Message -----
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>>> To: <Ballooning@yahoogroups.com>
>>> Cc: "GPSL Balloon Reflector" <GPSL@yahoogroups.com>
>>> Sent: Friday, July 04, 2008 12:10 PM
>>> Subject: Re: [Ballooning] Stabilizing the payload
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4460. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-05 04:01:37 UTC
From: Joe
Topic: 4455 Message: 4460

the video files are shockwave files,,

firefox should play them just fine. I use fox here myself all the time..
and still old netscaps for mail, won't touch IE: Internet exploder or
Out look Viral express.

Can you wantch any you tuve videos? they are all a .flv which is a
streaming shockwave format.

Joe

Mike Manes wrote:

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>tell. I refuse to install the virus-bait WMP on my machine. So all I can
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>>>>To: <Ballooning@yahoogroups.com>
>>>>Cc: "GPSL Balloon Reflector" <GPSL@yahoogroups.com>
>>>>Sent: Friday, July 04, 2008 12:10 PM
>>>>Subject: Re: [Ballooning] Stabilizing the payload
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4461. Re: [Ballooning] Stabilizing the payload

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-05 04:05:01 UTC
From: Joe
Topic: 4455 Message: 4461

yeah if you had a down to the inch accurate GPS with a continous output
and then plotted it, the payload profile would be indeed a ohhh 4 to 6
foot spiral, like a giant cork screw.

Joe

Mike Manes wrote:

>Hi Joe,
>
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>tell. I refuse to install the virus-bait WMP on my machine. So all I can
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>>>>>subscriptions:
>>>>>
>>>>>http://groups.yahoo.com/group/Ballooning
>>>>>
>>>>>To email the list Owner, just send a message to the
>>>>>following address:
>>>>>
>>>>>Ballooning-owner@yahoogroups.com
>>>>>
>>>>>
>>>>>Regards,
>>>>>
>>>>>Moderator, Ballooning
>>>>>
>>>>>
>>>>>Yahoo! Groups Links
>>>>>
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>>>>>----------
>>>>>
>>>>>To start sending messages to members of this group,
>>>>>simply send email to
>>>>>
>>>>>Ballooning@yahoogroups.com
>>>>>
>>>>>If you do not wish to belong to Ballooning, you may
>>>>>unsubscribe by sending an email to
>>>>>
>>>>>Ballooning-unsubscribe@yahoogroups.com
>>>>>
>>>>>You may also visit the eGroups web site to modify your
>>>>>subscriptions:
>>>>>
>>>>>http://groups.yahoo.com/group/Ballooning
>>>>>
>>>>>To email the list Owner, just send a message to the
>>>>>following address:
>>>>>
>>>>>Ballooning-owner@yahoogroups.com

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4462. Oregon Man flying lawn chair lifted by helium balloons TODAY

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-05 23:47:31 UTC
From: Hank
Topic: 4462 Message: 4462

full story at:

http://ap.google.com/article/ALeqM5j037p6KBSOGf46HoBgu15lsCUGUgD91NUPRG2

google "kent couch" for more news coverage

Man flying lawn chair lifted by helium balloons

By JEFF BARNARD ☐ 1 hour ago

BEND, Ore. (AP) ☐ Riding a green lawn chair supported by a rainbow array of more than 150 helium-filled party balloons, Kent Couch took off Saturday in a third bid to fly from central Oregon all the way to Idaho.

Couch kissed his wife and kids goodbye, and patted their shivering Chihuahua, Isabella, before his ground crew gave him a push so he could clear surrounding light poles and a coffee cart.

Then, clutching a big mug of coffee, Couch rose out of the parking lot of his gas station into the bright blue morning sky, cheered by a crowd of spectators.

"If I had the time and money and people, I'd do this every weekend," Couch said before getting into the chair. "Things just look different from up there. You've moving so slowly. The best thing is the peace, the serenity.

"You can hear a dog bark at 15,000 feet."

"He's crazy," said his wife, Susan. "It's never been a dull moment since I married him."

Couch hoped to ride the prevailing wind to the area of McCall, Idaho, about 230 miles east. He travels at about 20 mph.

Late Saturday morning, Couch reported via satellite phone that he had traveled about 100 miles, said Renee Sibley, manager of his gasoline station.

"He was fine, and everything was going good," Sibley said. "He was a little north (of his planned route) but figured he could still make it."

4463. Oregon Man flying lawn chair lands in Idaho!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-06 04:18:51 UTC
From: Hank
Topic: 4462 Message: 4463

full story at:

http://www.topnews.in/lawn-chair-balloonist-arrives-idaho-251228

Washington - An Oregon man reclining on a green lawn chair suspended by giant party ballons landed in a horse pasture outside Cambridge, Idaho, at about 2245 GMT Saturday.

American Kent Couch landed safely after gliding some 378 kilometres on the wind above the desert, according to the Oregonian newspaper.

Although Couch ended the day north of his goal of Boise, Idaho he had a successful trip after being released by a ground crew who helped him steer clear of light poles as he left from the parking lot of a gas station he owns in Bend, Oregon.

--- In GPSL@yahoogroups.com, "Hank" <n1ltv@...> wrote:
>
> full story at:
>
> http://ap.google.com/article/ALeqM5j037p6KBSOGf46HoBgu15lsCUGUgD91NUPR
> G2
>
> google "kent couch" for more news coverage
> ----------
>
> Man flying lawn chair lifted by helium balloons
>
> By JEFF BARNARD ☐ 1 hour ago
>
> BEND, Ore. (AP) ☐ Riding a green lawn chair supported by a rainbow
> array of more than 150 helium-filled party balloons, Kent Couch took
> off Saturday in a third bid to fly from central Oregon all the way to
> Idaho.
>
> Couch kissed his wife and kids goodbye, and patted their shivering
> Chihuahua, Isabella, before his ground crew gave him a push so he
> could clear surrounding light poles and a coffee cart.
>
> Then, clutching a big mug of coffee, Couch rose out of the parking
> lot of his gas station into the bright blue morning sky, cheered by a
> crowd of spectators.
>
> "If I had the time and money and people, I'd do this every weekend,"
> Couch said before getting into the chair. "Things just look different

> from up there. You've moving so slowly. The best thing is the peace,
> the serenity.
>
> "You can hear a dog bark at 15,000 feet."
>
> "He's crazy," said his wife, Susan. "It's never been a dull moment
> since I married him."
>
> Couch hoped to ride the prevailing wind to the area of McCall, Idaho,
> about 230 miles east. He travels at about 20 mph.
>
> Late Saturday morning, Couch reported via satellite phone that he had
> traveled about 100 miles, said Renee Sibley, manager of his gasoline
> station.
>
> "He was fine, and everything was going good," Sibley said. "He was a
> little north (of his planned route) but figured he could still make
> it."
>

4464. RE: [GPSL] Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-06 20:45:14 UTC
From: Nick Hanks
Topic: 4410 Message: 4464

Hi Deb,

Here□s the list of EOSS folks who want to order lunch for Friday.

Benji Campbell

Don Fraser

Marty Griffin

Nick Hanks

Daryl Hartner

Glenn Hetchler

Chris Krengle

Steve Meer

Mike Morgan

Larry Noble

Mike Pappas

Miles Pappas

Rob Wright

Rick von Glahn

Fourteen by my count. I go to the website to prepay.

Thanks for setting this up for us.

73,

Nick Hanks

NØLP

EOSS GPSL Coordinator

_____

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of dlkaiser23
Sent: Sunday, June 29, 2008 18:12
To: GPSL@yahoogroups.com

Subject: [GPSL] Final Lunch Orders

Lunch on Friday at William Jewell College will be "create your own sandwich and soup bar"
catered for $10/person. I need a final count of the number of people in your group who will
want to order lunch.

Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through,
but for now i need a list of names of those who want to eat at the college so i can give them
a final estimate for the number to expect.

We need you to pre-pay for your lunches, either through PayPal or send a check to Keith
Kaiser at 6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until
July 9, 2008.

Please let me know if you have any questions or concerns.

Thank you.
Deb Kaiser

4465. Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-06 23:00:09 UTC
From: dlkaiser23
Topic: 4410 Message: 4465

Have received about 27 lunch orders. Thanks to all who responded so far and a gentle reminder that we need a final count and payment as soon as you can.

Thanks and hope you all have a great 4th!
Deb kaiser

--- In GPSL@yahoogroups.com, "dlkaiser23" <dlkaiser@...> wrote:
>
> Lunch on Friday at William Jewell College will be "create your own sandwich and soup bar"
> catered for $10/person. I need a final count of the number of people in your group who will
> want to order lunch.
>
> Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through,
> but for now i need a list of names of those who want to eat at the college so i can give them
> a final estimate for the number to expect.
>
> We need you to pre-pay for your lunches, either through PayPal or send a check to Keith
> Kaiser at 6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until
> July 9, 2008.
>
> Please let me know if you have any questions or concerns.
>
> Thank you.
> Deb Kaiser
>

4466. Re: NSTAR will not be flying at GPSL this year

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-06 23:26:54 UTC
From: dlkaiser23
Topic: 4453 Message: 4466

PAUL - VERY sorry to hear you won't be able to make GPSL this year. Have a great summer and maybe we will see you on Saturday if you can make it then.

--- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
>
> Hi all,
>
> Due to a variety of circumstances, NSTAR will not be participating in the
> 2008 GPSL. We hope to be at the 2009 event, though, and we'll certainly
> miss seeing all the participants this year.
>
> If it works out Wayne KE6DZD and I may come to KC on the morning of the
> launch to help other teams launch and chase, but that's pretty iffy right
> now.
>
> 73 de Mark N9XTN
>

4467. Re: Final Helium or Hydrogen orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-06 23:31:11 UTC
From: dlkaiser23
Topic: 4409 Message: 4467

David - Do you want 4 lunches then? Thanks.
Deb Kaiser, WODLK

--- In GPSL@yahoogroups.com, "Patterson, David" <dvpatterson@...> wrote:
>
> Taylor University HARP would like one tank of He and two tanks of H2, and will have four in attendance:
>
> Elliot Chalfant
> Jeff Dailey
> Zach Palmer
> David Patterson
>
> Thanks!
>
> - David Patterson
> dvpatterson@...
> "If passion drives you,
> let reason hold the reins."
> ~Benjamin Franklin
>
> _____
>
> From: GPSL@yahoogroups.com on behalf of dlkaiser23
> Sent: Sun 6/29/2008 8:05 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Final Helium or Hydrogen orders
>
>
>
> We found a supply for helium and are taking orders for helium and hydrogen for GPSL.
>
> The cost of helium will be $132/bottle, including delivery charges.
>
> The cost for hydrogen will be $56/bottle, including delivery charges.
>
> Keith will be adding a Paypal button to the Superlaunch.org site that you can pay through,
> but for now i just need a final count for gas so we know what to order in total.
>
> We need you to pre-pay for your gas, either through PayPal or send a check to Keith Kaiser at
> 6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until July 9,
> 2008.
>

> Please let me know if you have any questions or concerns.
>
> Deb Kaiser
>

4468. Re: [GPSL] Re: Final Helium or Hydrogen orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-06 23:35:13 UTC
From: Jeff Dailey
Topic: 4409 Message: 4468

Yes there will be Four for Lunch.
Thank you
Jeff Dailey

----- Original Message ----
From: dlkaiser23 <dlkaiser@...>
To: GPSL@yahoogroups.com
Sent: Sunday, July 6, 2008 6:31:11 PM
Subject: [GPSL] Re: Final Helium or Hydrogen orders

David - Do you want 4 lunches then? Thanks.
Deb Kaiser, WODLK

--- In GPSL@yahoogroups.com, "Patterson, David" <dvpatterson@...> wrote:
>
> Taylor University HARP would like one tank of He and two tanks of H2, and will have four in attendance:
>
> Elliot Chalfant
> Jeff Dailey
> Zach Palmer
> David Patterson
>
> Thanks!
>
> - David Patterson
> dvpatterson@...
> "If passion drives you,
> let reason hold the reins."
> ~Benjamin Franklin
>
> ________________________________
>
> From: GPSL@yahoogroups.com on behalf of dlkaiser23
> Sent: Sun 6/29/2008 8:05 PM
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Final Helium or Hydrogen orders
>
>
>
> We found a supply for helium and are taking orders for helium and hydrogen for GPSL.
>
> The cost of helium will be $132/bottle, including delivery charges.
>
> The cost for hydrogen will be $56/bottle, including delivery charges.
>

> Keith will be adding a Paypal button to the Superlaunch.org site that you can pay
through,
> but for now i just need a final count for gas so we know what to order in total.
>
> We need you to pre-pay for your gas, either through PayPal or send a check to Keith
Kaiser at
> 6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders until July 9,
> 2008.
>
> Please let me know if you have any questions or concerns.
>
> Deb Kaiser
>

Yahoo! Groups Links

4469. Re: [GPSL] Re: NSTAR will not be flying at GPSL this year

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-07 01:17:20 UTC
From: Mark Conner
Topic: 4453 Message: 4469
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4470. ARHAB article in Chicago Tribune

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-07 13:47:16 UTC
From: Mark Conner
Topic: 4470 Message: 4470

http://www.chicagotribune.com/features/lifestyle/chi-0706-peeps-space-insidejul06,0,4436084.story

Features one of the Adler Planetarium's Far Horizons flights.

73 de Mark N9XTN

4471. BASE 26

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-07 17:56:15 UTC
From: BASE
Topic: 4471 Message: 4471

Dear friends,

BASE 26 is being delayed by about 24 hours in anticipation of the passage of a slowing moving cold front. New launch date and time is 10 July at 12:30 UTC. Flight will include photometric measurements of the atmosphere, sky polarization, and cosmic ray telescopes.

Hoping to ascend at 750-800 ft/min. Other information on the website:
www.depauw.edu/acad/physics/base

Have a great day!
Howard

4472. Re: [GPSL] Re: NSTAR will not be flying at GPSL this year

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-08 03:19:41 UTC
From: PAUL VERHAGE
Topic: 4453 Message: 4472

NearSys will have two surprise announcements, also.

Pau

>>> "Mark Conner" <mconner1@...> 07/06/08 7:17 PM >>>
Just so everyone is clear: Paul/NearSys will be at GPSL but needs help
tracking. NSTAR will not fly but may help with launch and chase if we can
make it.

73 de Mark N9XTN

On Sun, Jul 6, 2008 at 6:26 PM, dlkaiser23 <dlkaiser@...> wrote:

> PAUL - VERY sorry to hear you won't be able to make GPSL this year. Have a
> great summer
> and maybe we will see you on Saturday if you can make it then.
>
> --- In GPSL@yahoogroups.com, "Mark Conner" <mconner1@...> wrote:
> >
> > Hi all,
> >
> > Due to a variety of circumstances, NSTAR will not be participating in the
> > 2008 GPSL. We hope to be at the 2009 event, though, and we'll certainly
> > miss seeing all the participants this year.
> >
> > If it works out Wayne KE6DZD and I may come to KC on the morning of the
> > launch to help other teams launch and chase, but that's pretty iffy right
> > now.
> >
> > 73 de Mark N9XTN
> >
>
>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
>

4473. Launch of Balloons Using Hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-09 15:00:25 UTC
From: Nick Hanks
Topic: 4473 Message: 4473

Hi Keith,

Would it be possible for the two groups using hydrogen at GPSL this year to launch first on Saturday morning? That would give the rest of us using helium a chance to observe their launch preparation process and learn from them. After the two H2 balloons went, the rest would fill and launch.

Nick Hanks

NØLP

EOSS GPSL Coordinator

4474. Re: [GPSL] Launch of Balloons Using Hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-09 15:11:43 UTC
From: Jeff Dailey
Topic: 4473 Message: 4474

We can do that with no problem, the first balloon we are launching will be the H2.
Jeff Dailey
Taylor U.

----- Original Message ----
From: Nick Hanks <ndhanks@...>
To: Keith Kaiser <wa0tjt@...>
Cc: GPSL@yahoogroups.com
Sent: Wednesday, July 9, 2008 10:00:25 AM
Subject: [GPSL] Launch of Balloons Using Hydrogen

Hi Keith,

Would it be possible for the two groups using hydrogen at GPSL this year to launch first on Saturday morning? That would give the rest of us using helium a chance to observe their launch preparation process and learn from them. After the two H2 balloons went, the rest would fill and launch.

Nick Hanks
NØLP
EOSS GPSL Coordinator

4475. Re: [GPSL] Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-09 20:01:10 UTC
From: hhm_74115@cox.net
Topic: 4410 Message: 4475

Hi Deb,

Would it be possible for you to post who is paid up for lunch and gas?

Thanks & 73
Harry

Harry - KC5TRB - Tulsa
Oklahoma Research Balloons
http://members.cox.net/hhm_74775/orb/

4476. Re: [GPSL] Launch of Balloons Using Hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-09 22:44:29 UTC
From: Keith Kaiser
Topic: 4473 Message: 4476

I sure don't see a problem with this Nick. Lets bring it up at the pre-launch meeting on Friday afternoon and if everyone is OK with it, we'll do it.
Great idea!

On Jul 9, 2008, at 10:00 AM, Nick Hanks wrote:

>
> Hi Keith,
>
>
>
> Would it be possible for the two groups using hydrogen at GPSL this
> year to launch first on Saturday morning? That would give the rest
> of us using helium a chance to observe their launch preparation
> process and learn from them. After the two H2 balloons went, the
> rest would fill and launch.
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> Nick Hanks
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> NØLP
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> EOSS GPSL Coordinator
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4477. Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-09 23:58:03 UTC
From: dlkaiser@kc.rr.com
Topic: 4410 Message: 4477

Do you have a specific question, Harry? I would prefer not to post
the tracking sheet i am using, as it can quickly become out of date.
Thanks.
Deb

4479. RE: [GPSL] Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 00:28:17 UTC
From: Nick Hanks
Topic: 4410 Message: 4479

Deb,

We would like to see that data also. Understand changing data sheets, especially when dealing with attendance numbers. But could you give us some "rounded estimates" on the number of lunches ordered and the number of balloons you expect to be launched? EOSS is launching one.

Thank you.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of dlkaiser@...
Sent: Wednesday, July 09, 2008 17:58
To: GPSL@yahoogroups.com
Subject: [GPSL] Re: Final Lunch Orders

Do you have a specific question, Harry? I would prefer not to post the tracking sheet i am using, as it can quickly become out of date.
Thanks.
Deb

4480. RE: [GPSL] Launch of Balloons Using Hydrogen

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 00:31:43 UTC
From: Nick Hanks
Topic: 4473 Message: 4480

Good point. So another alternative could be that all the groups using helium that want to watch hydrogen fill and launch could hold off filling until the H2 balloons launch. Then we could all fill and launch. Groups not interested in watching the H2 fills could fill at the same time as the H2 groups.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of J T
Sent: Wednesday, July 09, 2008 18:24
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Launch of Balloons Using Hydrogen

Here's an alternative. If someone wanted to see a hydrogen inflation and launch they could just find one of the groups who will be doing that and observe them. I believe there will be at least three groups using hydrogen. If a helium group isn't interested in watching there's no reason to keep them grounded until after all of the hydrogen flights are launched.

-JT

4481. Hotels for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 07:56:39 UTC
From: wb8elk@aol.com
Topic: 4481 Message: 4481

I'm about to reserve my room and was just wondering which hotels that the different groups are planning to stay?

- Bill WB8ELK

**********Get the scoop on last night's hottest shows and the live music scene in your area - Check out TourTracker.com!
(http://www.tourtracker.com?NCID=aolmus00050000000112)

4482. RE: [GPSL] Hotels for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 11:00:52 UTC
From: Roger Hammond
Topic: 4481 Message: 4482

CNNSP - Comfort Suites

Rog KCØMWM

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Thursday, July 10, 2008 2:57 AM
To: GPSL@yahoogroups.com
Subject: [GPSL] Hotels for GPSL

I'm about to reserve my room and was just wondering which hotels that the different groups are planning to stay?

- Bill WB8ELK

Get the scoop on last night's hottest shows and the live music scene in your area - Check out TourTracker.
<http://www.tourtracker.com?NCID=aolmus00050000000112> com!

4483. RE: [GPSL] Hotels for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 12:55:44 UTC
From: Nick Hanks
Topic: 4481 Message: 4483

A number of EOSS folks are at the Fairfield Inn. There's a special rate available by mentioning "EOSS."

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Thursday, July 10, 2008 01:57
To: GPSL@yahoogroups.com
Subject: [GPSL] Hotels for GPSL

I'm about to reserve my room and was just wondering which hotels that the different groups are planning to stay?

- Bill WB8ELK

Get the scoop on last night's hottest shows and the live music scene in your area - Check out <http://www.tourtracker.com?NCID=aolmus00050000000112> TourTracker.com!

4484. Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 16:34:20 UTC
From: dlkaiser23
Topic: 4410 Message: 4484

Sure - The last time i counted, there were 27 lunches bought and paid for and 3 tanks of helium and 3 tanks of hydrogen. That was a few days ago though.

I am at work now, but will check the numbers again tonight and update everyone.

We are going to cut the gas and lunch orders off next week sometime, so get your orders in as soon as possible. DO NOT DELAY!

I hope this answered your question, but if not, just let me know.

Thanks.

4485. Re: [GPSL] Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 19:32:54 UTC
From: PAUL VERHAGE
Topic: 4410 Message: 4485

What address can we send checks to?

Thanks,
Paul

>>> "dlkaiser@...m" <dlkaiser@...> 07/09/08 5:58 PM >>>
Do you have a specific question, Harry? I would prefer not to post
the tracking sheet i am using, as it can quickly become out of date.
Thanks.
Deb

Yahoo! Groups Links

4486. got the address, thanks

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 19:38:40 UTC
From: PAUL VERHAGE
Topic: 4486 Message: 4486

Never mind, I see it.

Thanks,
Paul

> We need you to pre-pay for your lunches, either through PayPal or send a check to Keith
> Kaiser at 6024 N Ames, Kansas City, MO 64151 if you prefer. We will accept orders
until
> July 9, 2008.
>
> Please let me know if you have any questions or concerns.
>
> Thank you.
> Deb Kaiser
>

Yahoo! Groups Links

4487. Re: [GPSL] Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 19:42:43 UTC
From: PAUL VERHAGE
Topic: 4410 Message: 4487

You shouuld have one He tank and two lunches for NearSys. i'll write the check tonight and put it in the mail in the morning.

Man, it was hot in Moab this year, I'm glad to be back where it will only get into the 80's.

Thanks,
Paul

>>> "dlkaiser23" <dlkaiser@...> 07/10/08 10:34 AM >>>
Sure - The last time i counted, there were 27 lunches bought and paid for and 3 tanks of helium and 3 tanks of hydrogen. That was a few days ago though.

I am at work now, but will check the numbers again tonight and update everyone.

We are going to cut the gas and lunch orders off next week sometime, so get your orders in as soon as possible. DO NOT DELAY!

I hope this answered your question, but if not, just let me know.

Thanks.

Yahoo! Groups Links

4488. Re: [GPSL] Hotels for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 20:11:10 UTC
From: BASE
Topic: 4481 Message: 4488

BASE - DePauw will be at the Super 8.

Howard

--- On Thu, 7/10/08, wb8elk@aol.com <wb8elk@...> wrote:
From: wb8elk@... <wb8elk@...>
Subject: [GPSL] Hotels for GPSL
To: GPSL@yahoogroups.com
Date: Thursday, July 10, 2008, 3:56 AM

I'm about to reserve my room and was just wondering which hotels
that the different groups are planning to stay?

- Bill WB8ELK

Get the scoop on last night's hottest shows and the live music scene in your area - Check out TourTracker. com!

4489. BASE 26 flight complete

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 20:32:13 UTC
From: BASE
Topic: 4489 Message: 4489

BASE 26 was launched from the roof of the Julian Center (Lat: 39.64 deg N Long: -86.86 W)on the DePauw campus at 12:30 UTC today. Maximum altitude of 97,000 feet at 14:19 UTC. Average ascent rate of 880 ft/min. Balloon traveled a serpentine path of 78 miles and landing 43 miles at a heading of 106 degrees from Greencastle just southwest of Franklin, IN. Landing time was 15:02 UTC. We had an excellent visual following of the descent from 7000 feet above sea level. Landing was in a corn field near Youngs Creek (Lat: 39 deg 28.29 min and Long: -86 deg 5.11 min). Thanks to the floods of one month ago, the recovery was simplified by walking through the formerly flooded portions of the field. Some of the corn was just about head high, but not yet tasseled.

Data analysis is underway.

See some of you in Liberty for Superlaunch.

Howard

4490. Re: [GPSL] Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-10 22:32:38 UTC
From: hhm_74115@cox.net
Topic: 4410 Message: 4490

Hi Deb,

I would like to know if I paid and for what.

Thanks!
Harry KC5TRB

4491. Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-11 02:32:08 UTC
From: dlkaiser@kc.rr.com
Topic: 4410 Message: 4491

You can make them payable to "Near Space Ventures, Inc".

You can send the checks to me at 6024 N Ames, KC, MO 64151.

Thanks very much.
Deb Kaiser, W0DLK

4492. Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-11 03:21:55 UTC
From: dlkaiser@kc.rr.com
Topic: 4410 Message: 4492

We have a total order for lunch of 35 (WOW Cool!), not all paid yet, but most. We have orders for:

Helium - 3 bottles - Over 3 different groups. - 1 for Nearsys; 1 for Taylor U and 1 for Bill Brown.

Hydrogen - 4 bottles - NSV ordered 2 bottles and Taylor U ordered 2 bottles

Please let me know if there are any questions. We needed 40 for lunch for the price, so we have enough. I know at LEAST 4 people who have not yet given their orders (you know who you are...***grin***).

Cheers
Deb Kaiser
W0DLK

4493. Re: [GPSL] Re: Final Lunch Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-11 14:44:40 UTC
From: hhm_74115@cox.net
Topic: 4410 Message: 4493

I think I put my order in a few months ago, anyway put me (ORB) in for 1-K-tank of Helium and 1 lunch.

73 Harry KC5TRB

> We have a total order for lunch of 35 (WOW Cool!), not all paid yet,
> but most. We have orders for:
> Helium - 3 bottles - Over 3 different groups. - 1 for Nearsys; 1 for
> Taylor U and 1 for Bill Brown.

4494. Preliminary Frequency Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-15 00:09:40 UTC
From: Keith Kaiser
Topic: 4494 Message: 4494

Aeronauts,

Brian Short has worked up the DRAFT for the frequency assignments for GPSL. Please take a look at it (download it) from the web site at superlaunch.org, in the right hand column on the top of the News and Events listing. If you are not represented be sure to contact Brian (kcshorty@...) and get on the frequency list.

Also if you haven't already done so, order your choice of gas and your lunches, these monies are needed to make deposits and such so please do this just as soon as possible.

Near Space Ventures, Inc. will be holding it's monthly meeting on Wednesday and we hope to wrap up all pre-GPSL activities at this time, so don't wait. If you are a late comer and interested in doing a presentation, please send me an email at this address just as soon as you can. Be sure to tell me what you topic is and approximately how much time you will need.

Thank you to all who have done there part for this annual event, I'm really looking forward to it as I know you are, it will be a great weekend.

73's
-- Keith

4495. Cut-off Date for Lunch and Gas Orders

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-15 02:06:58 UTC
From: dlkaiser23
Topic: 4495 Message: 4495

We will need to cut off the orders as of Thursday, July 17.

Please get your orders in as soon as possible.

Thank you.

4496. RE: [GPSL] Preliminary Frequency Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-15 04:19:29 UTC
From: Nick Hanks
Topic: 4494 Message: 4496

Keith,

Checked out the freq assignment list as you asked. Looks okay. Will 144.34 be I-gated? If not, would like to go to 144.39. We can time slot on that frequency.

Thanks.

Nick Hanks

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Keith Kaiser
Sent: Monday, July 14, 2008 18:10
To: GPSL@yahoogroups.com
Subject: [GPSL] Preliminary Frequency Assignments

Aeronauts,

Brian Short has worked up the DRAFT for the frequency assignments for GPSL. Please take a look at it (download it) from the web site at superlaunch.org, in the right hand column on the top of the News and Events listing. If you are not represented be sure to contact Brian (kcshorty@gmail. <mailto:kcshorty%40gmail.com> com) and get on the frequency list.

Also if you haven't already done so, order your choice of gas and your lunches, these monies are needed to make deposits and such so please do this just as soon as possible.

Near Space Ventures, Inc. will be holding it's monthly meeting on Wednesday and we hope to wrap up all pre-GPSL activities at this time, so don't wait. If you are a late comer and interested in doing a presentation, please send me an email at this address just as soon as you can. Be sure to tell me what you topic is and approximately how much time you will need.

Thank you to all who have done there part for this annual event, I'm really looking forward to it as I know you are, it will be a great weekend.

73's
-- Keith

4497. Re: [GPSL] Preliminary Frequency Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-15 11:05:55 UTC
From: Keith Kaiser
Topic: 4494 Message: 4497

144.34 will be I-gated, but if you want or need a change Nick I think
all you'll have to do is ask Brian.

Thanks for taking a look right away, one less thing to worry about.....

73's!

On Jul 14, 2008, at 11:19 PM, Nick Hanks wrote:

>
> Keith,
>
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>
> Checked out the freq assignment list as you asked. Looks okay.
> Will 144.34 be I-gated? If not, would like to go to 144.39. We can
> time slot on that frequency.
>
>
>
> Thanks.
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>
> Nick Hanks
>
> EOSS GPSL Coordinator
>
>
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> OfKeith Kaiser
> Sent: Monday, July 14, 2008 18:10
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Preliminary Frequency Assignments
>
>
>
> Aeronauts,
>
> Brian Short has worked up the DRAFT for the frequency assignments for
> GPSL. Please take a look at it (download it) from the web site at
> superlaunch.org, in the right hand column on the top of the News and
> Events listing. If you are not represented be sure to contact Brian (kcshorty@...

>) and get on the frequency list.
>
> Also if you haven't already done so, order your choice of gas and your
> lunches, these monies are needed to make deposits and such so please
> do this just as soon as possible.
>
> Near Space Ventures, Inc. will be holding it's monthly meeting on
> Wednesday and we hope to wrap up all pre-GPSL activities at this time,
> so don't wait. If you are a late comer and interested in doing a
> presentation, please send me an email at this address just as soon as
> you can. Be sure to tell me what you topic is and approximately how
> much time you will need.
>
> Thank you to all who have done there part for this annual event, I'm
> really looking forward to it as I know you are, it will be a great
> weekend.
>
> 73's
> -- Keith
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>
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4499. Re: [GPSL] Preliminary Frequency Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-16 02:05:26 UTC
From: Mike Manes
Topic: 4494 Message: 4499

Hi Keith,

The AE0SS-11 APRS beacon is slotted at 0:00 and 0:30 if any others want to put
a slotted beacon on 144.34. And the AE0SS CW/DF (Opt 3) beacon is freq agile,
but there doesn't seem to be any problem with 145.600 for the other GPSL birds.

73 de Mike W5VSI
CTO EOSS

Keith Kaiser wrote:
> Aeronauts,
>
> Brian Short has worked up the DRAFT for the frequency assignments for
> GPSL. Please take a look at it (download it) from the web site at
> superlaunch.org, in the right hand column on the top of the News and
> Events listing. If you are not represented be sure to contact Brian (kcshorty@...
>) and get on the frequency list.
>
> Also if you haven't already done so, order your choice of gas and your
> lunches, these monies are needed to make deposits and such so please
> do this just as soon as possible.
>
> Near Space Ventures, Inc. will be holding it's monthly meeting on
> Wednesday and we hope to wrap up all pre-GPSL activities at this time,
> so don't wait. If you are a late comer and interested in doing a
> presentation, please send me an email at this address just as soon as
> you can. Be sure to tell me what you topic is and approximately how
> much time you will need.
>
> Thank you to all who have done there part for this annual event, I'm
> really looking forward to it as I know you are, it will be a great
> weekend.
>
> 73's
> -- Keith
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

4500. Trimble Copernicus GPS performance on ARHAB balloon flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-16 23:25:13 UTC
From: wb8elk@aol.com
Topic: 4500 Message: 4500

During our recent Kentucky Space 1 balloon flight, the student team used a Trimble Copernicus GPS hooked up to a Byonics Microtrak300. However the Copernicus failed to report position above 29,630 feet on the ascent (the Microtrak300 continued to report the last valid position) and didn't start reporting valid altitude and position again until it dropped below 26,638 feet on the descent.

Any ideas as to whether it's a problem with the Copernicus or with the way the Microtrak300 parses the GPS string? Since the wind speed and direction fields were not reporting, it may be that the Copernicus was not sending out the $GPRMC field or there was a parsing problem.

Has anyone else flown a Trimble Copernicus GPS on an ARHAB flight?

Any ideas on this one would be greatly appreciated.....the Copernicus GPS is advertised by Trimble as being excellent for scientific ballooning use, so this behavior is puzzling.

- Bill WB8ELK

Raw data follows:

```
20080714173908,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/173905h3657.32N/08
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20080714173938,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/173935h3657.27N/08
625.17WO000/000/A=001876
20080714174009,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/174005h3657.20N/08
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20080714174037,KI4KXM-11>APT311,WD4INS-4,WIDE2*,qAR,WX4MET:/174035h3657.12N/08
625.18WO000/000/A=002578
20080714174137,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/174135h3656.95N/08625.
24WO000/000/A=003375
20080714174208,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/174205h3656.86N/08625.
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20080714174237,KI4KXM-11>APT311,NT4UX-3*,WIDE2,qAR,KQ4TV-1:/174235h3656.80N/08
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20080714174507,KI4KXM-11>APT311,NT4UX-3*,WIDE2,qAR,KQ4TV-1:/174505h3656.08N/08
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20080714174537,KI4KXM-11>APT311,NT4UX-3*,WIDE2,qAR,KQ4TV-1:/174535h3655.89N/08
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20080714174607,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/174605h3655.71N/08625.
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311,N4CKV-1,WIDE2*,qAR,N4CKV-2:/174805h3655.04N/08624.92WO000/000/A=010491/Kentucky Space
Balloon-1, I'm Alive!
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20080714175007,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/175005h3654.49N/08
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/08624.46WO000/000/A=013519
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20080714175236,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175235h3654.13N/08623.75W
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O000/000/A=016767
20080714175336,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175335h3654.01N/08623.31W
O000/000/A=017410
20080714175406,KI4KXM-11>APT311,WIDE2-1,qAR,KY4K:/175405h3653.96N/08623.04WO00
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20080714175506,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175505h3653.81N/08622.52W
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20080714175536,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175535h3653.74N/08622.26W
O000/000/A=020038
20080714175606,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175605h3653.68N/08621.97W
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20080714175806,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175805h3653.44N/08620.83W
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20080714175936,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/175935h3653.20N/08619.90W
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20080714180006,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180005h3653.09N/08619.59W

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2WO000/000/A=029630
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18.02WO000/000/A=000000
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20080714180606,KI4KXM-11>APT311,WIDE2-1,qAR,K2HAL-1:/180235h3652.62N/08618.02W
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20080714181006,KI4KXM-11>APT311,WIDE2-1,qAR,KF4IFC:/180235h3652.62N/08618.02WO
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20080714181036,KI4KXM-11>APT311,WIDE2-1,qAR,KF4IFC:/180235h3652.62N/08618.02WO
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20080714181836,KI4KXM-11>APT311,WIDE2-1,qAR,KY4K:/180235h3652.62N/08618.02WO00
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20080714183005,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
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20080714183035,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
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20080714183135,KI4KXM-11>APT311,WIDE2-1,qAR,WB9TLH-12:/180235h3652.62N/08618.0
2WO000/000/A=000000
20080714183205,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
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20080714183235,KI4KXM-11>APT311,WIDE2-1,qAR,WB9TLH-12:/180235h3652.62N/08618.0
2WO000/000/A=000000
20080714183405,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180235h3652.62N/08618.02W
O000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714183435,KI4KXM-11>APT311,WIDE2-1,qAR,KB4JHU-15:/180235h3652.62N/08618.0
2WO000/000/A=000000
20080714183605,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180235h3652.62N/08618.02W
O000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714183636,KI4KXM-11>APT311,N4VDE-3*,WIDE2,qAS,AJ4IS-5:/180235h3652.62N/08
618.02WO000/000/A=000000
20080714183805,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO

000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714183834,KI4KXM-11>APT311,WIDE2-1,qAR,WB9TLH-12:/180235h3652.62N/08618.0
2WO000/000/A=000000
20080714183937,KI4KXM-11>APT311,K0STL-15*,WIDE2,qAS,N0PTN-1:/180235h3652.62N/0
8618.02WO000/000/A=000000
20080714184004,KI4KXM-11>APT311,WIDE2-1,qAR,WB9TLH-12:/180235h3652.62N/08618.0
2WO000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714184034,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
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20080714184204,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
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20080714184234,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180235h3652.62N/08618.02W
O000/000/A=000000
20080714184254,KI4KXM-11>APT311,TCPIP*,qAS,WB8NUT:/180235h3652.62N/08618.02WO0
00/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714184404,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180235h3652.62N/08618.02W
O000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714184434,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180235h3652.62N/08618.02W
O000/000/A=000000
20080714184536,KI4KXM-11>APT311,N4VDE-3*,WIDE2,qAR,KB7TBT:/180235h3652.62N/086
18.02WO000/000/A=000000
20080714184604,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714184704,KI4KXM-11>APT311,WIDE2-1,qAR,WB9TLH-12:/180235h3652.62N/08618.0
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20080714184804,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714184829,KI4KXM-11>APT311,TCPIP*,qAS,WB8NUT:/180235h3652.62N/08618.02WO0
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20080714184905,KI4KXM-11>APT311,K9IU-10,K9IU-12*,qAR,K9IU-14:/180235h3652.62N/
08618.02WO000/000/A=000000
20080714185004,KI4KXM-11>APT311,WIDE2-1,qAR,KY4K:/180235h3652.62N/08618.02WO00
0/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714185034,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
000/000/A=000000
20080714185205,KI4KXM-11>APT311,N9AZZ-2*,WIDE2,qAR,WB0VTM:/180235h3652.62N/086
18.02WO000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714185237,KI4KXM-11>APT311,WA4ZKO-10,WIDE2*,qAR,KC9HAX:/180235h3652.62N/0
8618.02WO000/000/A=000000
20080714185434,KI4KXM-11>APT311,WIDE2-1,qAR,WA4BDS:/180235h3652.62N/08618.02WO
000/000/A=000000
20080714185634,KI4KXM-11>APT311,WIDE2-1,qAR,K2HAL-1:/180235h3652.62N/08618.02W
O000/000/A=000000
20080714185805,KI4KXM-11>APT311,WD4INS-4,WIDE2*,qAR,WX4MET:/180235h3652.62N/08
618.02WO000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714185826,KI4KXM-11>APT311,TCPIP*,qAS,WB8NUT:/180235h3652.62N/08618.02WO0
00/000/A=000000
20080714185905,KI4KXM-11>APT311,WA4ZKO-10,WIDE2*,qAR,KC9HAX:/180235h3652.62N/0
8618.02WO000/000/A=000000
20080714190004,KI4KXM-11>APT311,WIDE2-1,qAR,WB9TLH-12:/180235h3652.62N/08618.0

2WO000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714190034,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4IFC:/180235h3652.62N/08
618.02WO000/000/A=000000
20080714190135,KI4KXM-11>APT311,WA4ZKO-10,WIDE2*,qAR,KC9HAX:/180235h3652.62N/0
8618.02WO000/000/A=000000
20080714190204,KI4KXM-11>APT311,WIDE2-1,qAR,N4CKV-2:/180235h3652.62N/08618.02W
O000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714190234,KI4KXM-11>APT311,NT4UX-3*,WIDE2,qAR,KQ4TV-1:/180235h3652.62N/08
618.02WO000/000/A=000000
20080714190334,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/180235h3652.62N/08618.
02WO000/000/A=000000
20080714190405,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/180235h3652.62N/08
618.02WO000/000/A=000000/Kentucky Space Balloon-1, I'm Alive!
20080714190434,KI4KXM-11>APT311,WD4INS-4,WIDE2*,qAR,WX4MET:/180235h3652.62N/08
618.02WO000/000/A=000000
20080714190520,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,KQ4TV-1:/180235h3652.62N/08
618.02WO000/000/A=000000
20080714190707,KI4KXM-11>APT311,WD4INS-4,WIDE2*,qAR,WX4MET:/190705h3643.44N/08
611.79WO000/000/A=026638
20080714190737,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/190735h3643.32N/08611.
48WO000/000/A=025775
20080714190808,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/190805h3643.22N/08
611.16WO000/000/A=024824/Kentucky Space Balloon-1, I'm Alive!
20080714190837,KI4KXM-11>APT311,N9AZZ-2*,WIDE2,qAR,WB0VTM:/190835h3643.13N/086
10.88WO000/000/A=023899
20080714190909,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/190905h3643.08N/08610.
62WO000/000/A=022961
20080714190937,KI4KXM-11>APT311,WD4INS-4,WIDE2*,qAR,WX4MET:/190935h3643.02N/08
610.37WO000/000/A=022068
20080714191037,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/191035h3642.89N/08609.
82WO000/000/A=020238
20080714191106,KI4KXM-11>APT311,WIDE2-1,qAR,KB4JHU-15:/191105h3642.81N/08609.5
5WO000/000/A=019362
20080714191136,KI4KXM-11>APT311,WIDE2-1,qAR,KG4FZR-7:/191135h3642.74N/08609.31
WO000/000/A=018486
20080714191238,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/191235h3642.64N/08
608.90WO000/000/A=016849
20080714191307,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191305h3642.53N/08
608.70WO000/000/A=015966
20080714191337,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191335h3642.43N/08
608.60WO000/000/A=015008
20080714191407,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191405h3642.34N/08
608.51WO000/000/A=014136/Kentucky Space Balloon-1, I'm Alive!
20080714191437,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4IFC:/191435h3642.23N/08
608.44WO000/000/A=013319
20080714191507,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191505h3642.11N/08
608.35WO000/000/A=012495
20080714191537,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191535h3641.94N/08
608.26WO000/000/A=011675
20080714191607,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191605h3641.77N/08

608.21WO000/000/A=010855/Kentucky Space Balloon-1, I'm Alive!
20080714191637,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191635h3641.61N/08
608.19WO000/000/A=010065
20080714191707,KI4KXM-11>APT311,KF4OWQ-2,WIDE2*,qAR,KF4ZUX:/191705h3641.46N/08
608.17WO000/000/A=009290
20080714191737,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/191735h3641.30N/08608.
16WO000/000/A=008509
20080714191808,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/191805h3641.09N/08608.
16WO000/000/A=007778/Kentucky Space Balloon-1, I'm Alive!
20080714191907,KI4KXM-11>APT311,WD4INS-4,WIDE2*,qAR,WX4MET:/191905h3640.88N/08
608.23WO000/000/A=006262
20080714191937,KI4KXM-11>APT311,N4CKV-1,WIDE2*,qAR,N4CKV-2:/191935h3640.81N/08
608.28WO000/000/A=005455
20080714192009,KI4KXM-11>APT311,NT4UX-2,WIDE2*,qAR,K2HAL-1:/192005h3640.77N/08
608.29WO000/000/A=004615/Kentucky Space Balloon-1, I'm Alive!
20080714192107,KI4KXM-11>APT311,K1LH-3,WIDE2*,qAR,N4WS:/192105h3640.70N/08608.
28WO000/000/A=002978

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4501. Kentucky Space Balloon 1 flight recap

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-16 23:46:34 UTC
From: wb8elk@aol.com
Topic: 4501 Message: 4501

The Kentucky Space balloon flight 1 went beautifully. This was Kentucky Space's first balloon mission payload NSB-1, built by students from several KY universities and colleges... it had APRS on KI4KXM-11 and a 433.84 MHz CW telemetry beacon onboard along with two Canon 570IS cameras which took some amazing photos.

The 1.257 GHz FM ATV transmitter worked just great (thanks to the wee hour payload-building efforts of Hank W4HTB and Shane N4XWC) with snow-free video received at our command center throughout most of the flight. I also had WB8ELK-11 on APRS. Reception reports of the video signal were received by KA9UVY in Mt. Vernon IL, W8RVH in New Carlisle, Ohio and W8ZCF in Cincinnati, Ohio.

The simplex repeater on 144.34 MHz was quite busy with stations working through it from IL, IN, OH, KY, TN, AL and GA....we even had a few mobile stations from 200 plus miles out working through it. The repeater was an Alinco DJ-S11T (modded with a half-wave dipole) and a Radio Shack Simplex Repeater module.

The balloon reached 91,277 feet and landed southeast of Scottsville, KY in a field near a house (36.6774 -86.1376) The owner called me a few minutes after spotting the payloads across from her driveway and the student teams arrived a few minutes later in hot pursuit.

The National Guard and EMA folks brought out their emergency communication vehicles and we had a first rate air-conditioned ground station with every conceivable HF and VHF radio for our use.

- Bill WB8ELK

PS...the HF telemetry module on 28.172 MHz was not flown due to weight limitations but will fly at GPSL 2008.

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(http://www.tourtracker.com?NCID=aolmus00050000000112)

4502. Re: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-17 01:08:02 UTC
From: Kent Ochs
Topic: 4500 Message: 4502

Bill,

I can report that the Adler group has had similar problems using the Garmin GPS-18 (which we all know works at altitude) with the Microtrak300 but at much higher altitudes (usually over 80K). Position reports continue to be received sans Altitude. As the balloon descends, altitude reports are received again. The exact cause of this behavior has yet to be determined. I'm beginning to wonder if the problem is in the Microtrak.

It will be interesting to see what other reports you receive concerning this behavior.

Kent Ochs
W9KAO

----- Original Message ----
From: "wb8elk@..." <wb8elk@...>
To: GPSL@yahoogroups.com
Cc: ballooning@yahoogroups.com; balloon_sked@yahoogroups.com; balloonatics@yahoogroups.com
Sent: Wednesday, July 16, 2008 6:25:13 PM
Subject: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

During our recent Kentucky Space 1 balloon flight, the student team used a
Trimble Copernicus GPS hooked up to a Byonics Microtrak300. However the
Copernicus failed to report position above 29,630 feet on the ascent (the
Microtrak300 continued to report the last valid position) and didn't start
reporting valid altitude and position again until it dropped below 26,638
feet on the descent.

Any ideas as to whether it's a problem with the Copernicus or with the way
the Microtrak300 parses the GPS string? Since the wind speed and direction
fields were not reporting, it may be that the Copernicus was not sending out the
$GPRMC field or there was a parsing problem.

Has anyone else flown a Trimble Copernicus GPS on an ARHAB flight?

Any ideas on this one would be greatly appreciated. ....the Copernicus GPS
is advertised by Trimble as being excellent for scientific ballooning use, so
this behavior is puzzling.

- Bill WB8ELK

Raw data follows:

20080714173908, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/173905h3657. 32N/08625.
19WO000/000/ A=001551
20080714173938, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/173935h3657. 27N/08625.
17WO000/000/ A=001876

20080714174009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/174005h3657. 20N/08625.
17WO000/000/ A=002217/ Kentucky
Space Balloon-1, I'm
Alive!
20080714174037, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /174035h3657. 12N/08625.
18WO000/000/ A=002578
20080714174137, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174135h3656. 95N/08625.
24WO000/000/ A=003375
20080714174208, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174205h3656. 86N/08625.
26WO000/000/ A=003785/ Kentucky
Space Balloon-1, I'm
Alive!
20080714174237, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174235h3656. 80N/08625.
29WO000/000/ A=004192
20080714174337, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174335h3656. 65N/08625.
33WO000/000/ A=005199
20080714174438, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/174435h3656. 29N/08625.
30WO000/000/ A=006344
20080714174507, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174505h3656. 08N/08625.
25WO000/000/ A=006938
20080714174537, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174535h3655. 89N/08625.
24WO000/000/ A=007486
20080714174607, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174605h3655. 71N/08625.
22WO000/000/ A=008090/ Kentucky
Space Balloon-1, I'm
Alive!
20080714174637, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174635h3655. 55N/08625.
18WO000/000/ A=008710
20080714174809, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/174805h3655. 04N/08624.
92WO000/000/ A=010491/ Kentucky
Space Balloon-1, I'm
Alive!
20080714174837, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /174835h3654. 89N/08624.
81WO000/000/ A=011052
20080714174937, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /174935h3654. 61N/08624.
65WO000/000/ A=012223
20080714175007, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /175005h3654. 49N/08624.
56WO000/000/ A=012840/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175037, KI4KXM-11>APT311,N9UMJ- 10,WIDE2* ,qAR,WB9TLH- 12:/175035h3654. 39N/08624.
46WO000/000/ A=013519
20080714175107, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /175105h3654. 29N/08624.
29WO000/000/ A=014169
20080714175136, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175135h3654. 21N/08624. 11WO000/000/
A=014821
20080714175206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175205h3654. 16N/08623.
92WO000/000/ A=015491/ Kentucky
Space Balloon-1, I'm
Alive!

20080714175236, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175235h3654. 13N/08623.
75WO000/000/ A=016144
20080714175306, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175305h3654. 07N/08623.
55WO000/000/ A=016767
20080714175336, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175335h3654. 01N/08623.
31WO000/000/ A=017410
20080714175406, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175405h3653. 96N/08623. 04WO000/000/
A=018063/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175436, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175435h3653. 88N/08622.
78WO000/000/ A=018712
20080714175506, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175505h3653. 81N/08622.
52WO000/000/ A=019345
20080714175536, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175535h3653. 74N/08622.
26WO000/000/ A=020038
20080714175606, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175605h3653. 68N/08621.
97WO000/000/ A=020720/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175636, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/175635h3653. 65N/08621.
71WO000/000/ A=021389
20080714175706, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175705h3653. 61N/08621.
44WO000/000/ A=022081
20080714175736, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /175735h3653. 53N/08621.
15WO000/000/ A=022761
20080714175806, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175805h3653. 44N/08620.
83WO000/000/ A=023433/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175835h3653. 36N/08620. 52WO000/000/
A=024109
20080714175906, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175905h3653. 29N/08620. 22WO000/000/
A=024781
20080714175936, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175935h3653. 20N/08619.
90WO000/000/ A=025444
20080714180006, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180005h3653. 09N/08619.
59WO000/000/ A=026104/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180036, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180035h3652. 98N/08619. 29WO000/000/
A=026796
20080714180106, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180105h3652. 90N/08618.
98WO000/000/ A=027495
20080714180136, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180135h3652. 81N/08618.
65WO000/000/ A=028203
20080714180206, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180205h3652. 72N/08618. 35WO000/000/
A=028915/ Kentucky
Space Balloon-1, I'm
Alive!

20080714180208, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180105h3652. 90N/08618. 98WO000/000/
A=027495
20080714180236, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=029630
20080714180306, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714180337, KI4KXM-11>APT311,W4KCO- 3,WIDE2*, qAS,WA4YYM: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180407, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180437, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180606, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180636, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180739, KI4KXM-11>APT311,WIDE2- 1,qAR,WD9EKA: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180806, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714180936, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4YTM- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181006, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181036, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181137, KI4KXM-11>APT311,W4KCO- 3,WIDE2*, qAR,KG4FZR- 7:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181236, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181406, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181435, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000

20080714181606, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181636, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181805, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714182007, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAS,AJ4IS- 5:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182037, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182205, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182235, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182336, KI4KXM-11>APT311,KB4YTM- 4,WIDE2*, qAR,KB4YTM- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182405, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182435, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182454, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182605, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182635, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182735, KI4KXM-11>APT311,WIDE2- 1,qAo,KD4SN: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714182805, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182835, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000

20080714183005, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183035, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183135, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183205, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183235, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183405, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183435, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183605, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183636, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAS,AJ4IS- 5:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183805, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183834, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183937, KI4KXM-11>APT311,K0STL- 15*,WIDE2, qAS,N0PTN- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184004, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184034, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184204, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184234, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184254, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!

20080714184404, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184434, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184536, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAR,KB7TBT: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184604, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184704, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184804, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184829, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714184905, KI4KXM-11>APT311,K9IU- 10,K9IU-12* ,qAR,K9IU- 14:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185004, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714185034, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185205, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714185237, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185434, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185634, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185805, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714185826, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714185905, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190004, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!

20080714190034, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190135, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190204, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190234, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190334, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190405, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190434, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190520, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,KQ4TV- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190707, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /190705h3643. 44N/08611.
79WO000/000/ A=026638
20080714190737, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /190735h3643. 32N/08611.
48WO000/000/ A=025775
20080714190808, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/190805h3643. 22N/08611.
16WO000/000/ A=024824/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190837, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /190835h3643. 13N/08610.
88WO000/000/ A=023899
20080714190909, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /190905h3643. 08N/08610.
62WO000/000/ A=022961
20080714190937, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /190935h3643. 02N/08610.
37WO000/000/ A=022068
20080714191037, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191035h3642. 89N/08609.
82WO000/000/ A=020238
20080714191106, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/191105h3642. 81N/08609.
55WO000/000/ A=019362
20080714191136, KI4KXM-11>APT311,WIDE2- 1,qAR,KG4FZR- 7:/191135h3642. 74N/08609.
31WO000/000/ A=018486
20080714191238, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/191235h3642. 64N/08608.
90WO000/000/ A=016849
20080714191307, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191305h3642. 53N/08608.
70WO000/000/ A=015966
20080714191337, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191335h3642. 43N/08608.
60WO000/000/ A=015008
20080714191407, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191405h3642. 34N/08608.
51WO000/000/ A=014136/ Kentucky Space Balloon-1,
I'm
Alive!

20080714191437, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /191435h3642. 23N/08608.
44WO000/000/ A=013319
20080714191507, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191505h3642. 11N/08608.
35WO000/000/ A=012495
20080714191537, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191535h3641. 94N/08608.
26WO000/000/ A=011675
20080714191607, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191605h3641. 77N/08608.
21WO000/000/ A=010855/ Kentucky
Space Balloon-1, I'm
Alive!
20080714191637, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191635h3641. 61N/08608.
19WO000/000/ A=010065
20080714191707, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191705h3641. 46N/08608.
17WO000/000/ A=009290
20080714191737, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191735h3641. 30N/08608.
16WO000/000/ A=008509
20080714191808, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191805h3641. 09N/08608.
16WO000/000/ A=007778/ Kentucky
Space Balloon-1, I'm
Alive!
20080714191907, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /191905h3640. 88N/08608.
23WO000/000/ A=006262
20080714191937, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/191935h3640. 81N/08608.
28WO000/000/ A=005455
20080714192009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/192005h3640. 77N/08608.
29WO000/000/ A=004615/ Kentucky
Space Balloon-1, I'm
Alive!
20080714192107, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /192105h3640. 70N/08608.
28WO000/000/ A=002978

Get the scoop on last night's hottest shows and the live music scene in your area - Check out TourTracker. com!

4503. Re: [GPSL] Preliminary Frequency Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-17 00:58:44 UTC
From: Keith Kaiser
Topic: 4494 Message: 4503

144.34 will be I-gated, but if you want or need a chan
On Jul 14, 2008, at 11:19 PM, Nick Hanks wrote:

>
> Keith,
>
>
>
> Checked out the freq assignment list as you asked. Looks okay.
> Will 144.34 be I-gated? If not, would like to go to 144.39. We can
> time slot on that frequency.
>
>
>
> Thanks.
>
>
>
>
>
> Nick Hanks
>
> EOSS GPSL Coordinator
>
>
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> OfKeith Kaiser
> Sent: Monday, July 14, 2008 18:10
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Preliminary Frequency Assignments
>
>
>
> Aeronauts,
>
> Brian Short has worked up the DRAFT for the frequency assignments for
> GPSL. Please take a look at it (download it) from the web site at
> superlaunch.org, in the right hand column on the top of the News and
> Events listing. If you are not represented be sure to contact Brian (kcshorty@...
>) and get on the frequency list.
>
> Also if you haven't already done so, order your choice of gas and your
> lunches, these monies are needed to make deposits and such so please
> do this just as soon as possible.

>
> Near Space Ventures, Inc. will be holding it's monthly meeting on
> Wednesday and we hope to wrap up all pre-GPSL activities at this time,
> so don't wait. If you are a late comer and interested in doing a
> presentation, please send me an email at this address just as soon as
> you can. Be sure to tell me what you topic is and approximately how
> much time you will need.
>
> Thank you to all who have done there part for this annual event, I'm
> really looking forward to it as I know you are, it will be a great
> weekend.
>
> 73's
> -- Keith
>
>
>
>

4504. Final Freq Updates

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-17 01:26:59 UTC
From: Brian Short, KCØBS
Topic: 4504 Message: 4504
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4505. Re: [GPSL] Preliminary Frequency Assignments

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-17 01:54:26 UTC
From: PAUL VERHAGE
Topic: 4494 Message: 4505

NearSys can do either 144.34 or .39. I won't be able to change my transmit times before GPSL and I don't remember what the TT3 was programmed for.

I do have the copies of Nuts and Volts and a BASIC Stamp homework board for a door prize.

Paul

>>> Keith Kaiser <wa0tjt@...> 07/16/08 6:58 PM >>>
144.34 will be I-gated, but if you want or need a chan
On Jul 14, 2008, at 11:19 PM, Nick Hanks wrote:

>
> Keith,
>
>
>
> Checked out the freq assignment list as you asked. Looks okay.
> Will 144.34 be I-gated? If not, would like to go to 144.39. We can
> time slot on that frequency.
>
>
>
> Thanks.
>
>
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>
>
> Nick Hanks
>
> EOSS GPSL Coordinator
>
>
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf
> OfKeith Kaiser
> Sent: Monday, July 14, 2008 18:10
> To: GPSL@yahoogroups.com
> Subject: [GPSL] Preliminary Frequency Assignments
>
>
>
> Aeronauts,
>
> Brian Short has worked up the DRAFT for the frequency assignments for
> GPSL. Please take a look at it (download it) from the web site at

> superlaunch.org, in the right hand column on the top of the News and
> Events listing. If you are not represented be sure to contact Brian (kcshorty@...
>) and get on the frequency list.
>
> Also if you haven't already done so, order your choice of gas and your
> lunches, these monies are needed to make deposits and such so please
> do this just as soon as possible.
>
> Near Space Ventures, Inc. will be holding it's monthly meeting on
> Wednesday and we hope to wrap up all pre-GPSL activities at this time,
> so don't wait. If you are a late comer and interested in doing a
> presentation, please send me an email at this address just as soon as
> you can. Be sure to tell me what you topic is and approximately how
> much time you will need.
>
> Thank you to all who have done there part for this annual event, I'm
> really looking forward to it as I know you are, it will be a great
> weekend.
>
> 73's
> -- Keith
>
>
>
>

Yahoo! Groups Links

4506. Re: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-17 02:35:11 UTC
From: Meer, Stephen
Topic: 4500 Message: 4506

EOSS has flown a Garmin-18 many times as part of our B-LAN system with no altitude, or any other issues. Unit flys connected to an Atmel CPU running our code reporting all NEMA sentences native to the unit.

Seems to point to things beyond the GPS units at this point.

/s/Stephen Meer, K0SCC

This message has been sent via the Intrado Wireless Information Network.

----- Original Message -----
From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
Sent: Wed Jul 16 19:08:02 2008
Subject: Re: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

Bill,

I can report that the Adler group has had similar problems using the Garmin GPS-18 (which we all know works at altitude) with the Microtrak300 but at much higher altitudes (usually over 80K). Position reports continue to be received sans Altitude. As the balloon descends, altitude reports are received again. The exact cause of this behavior has yet to be determined. I'm beginning to wonder if the problem is in the Microtrak.

It will be interesting to see what other reports you receive concerning this behavior.

Kent Ochs
W9KAO

----- Original Message ----
From: "wb8elk@aol.com" <wb8elk@aol.com>
To: GPSL@yahoogroups.com
Cc: ! ballooning@yahoogroups.com; balloon_sked@yahoogroups.com; balloonatics@yahoogroups.com
Sent: Wednesday, July 16, 2008 6:25:13 PM
Subject: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

During our recent Kentucky Space 1 balloon flight, the student team used a Trimble Copernicus GPS hooked up to a Byonics Microtrak300. However the Copernicus failed to report position above 29,630 feet on the ascent (the Microtrak300 continued to report the last valid position) and didn't start reporting valid altitude and position again until it dropped below 26,638 feet on the descent.

Any ideas as to whether it's a problem with the Copernicus or with the way the Microtrak300 parses the GPS string? Since the wind speed and direction fields were not reporting, it may be that the Copernicus was not sending out the $GPRMC field or there was a parsing problem.

Has anyone else flown a Trimble Copernicus GPS on an ARHAB flight?

Any ideas on this one would be greatly appreciated. ....the Copernicus GPS is advertised by Trimble as being excellent for scientific ballooning use, so this behavior is puzzling.

- Bill WB8ELK

Raw data follows:

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20080714174009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/174005h3657. 20N/08625. 17WO000/000/ A=002217/ Kentucky Space Balloon-1, I'm Alive!
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20080714175136, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175135h3654. 21N/08624. 11WO000/000/ A=014821
20080714175206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175205h3654. 16N/08623. 92WO000/000/ A=015491/ Kentucky Space Balloon-1, I'm Alive!
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20080714175336, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175335h3654. 01N/08623.
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20080714175536, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175535h3653. 74N/08622.
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20080714175736, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /175735h3653. 53N/08621.
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20080714180106, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180105h3652. 90N/08618.
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20080714180136, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180135h3652. 81N/08618.
65WO000/000/ A=028203
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02WO000/000/ A=000000
20080714185205, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
20080714185237, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185434, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
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20080714185634, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185805, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
20080714185826, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714185905, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190004, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
20080714190034, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190135, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190204, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
20080714190234, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190334, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190405, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
20080714190434, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190520, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,KQ4TV- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190707, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /190705h3643. 44N/08611.
79WO000/000/ A=026638
20080714190737, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /190735h3643. 32N/08611.
48WO000/000/ A=025775

20080714190808, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/190805h3643. 22N/08611.
16WO000/000/ A=024824/ Kentucky Space Balloon-1, I'm Alive!
20080714190837, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /190835h3643. 13N/08610.
88WO000/000/ A=023899
20080714190909, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /190905h3643. 08N/08610.
62WO000/000/ A=022961
20080714190937, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /190935h3643. 02N/08610.
37WO000/000/ A=022068
20080714191037, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191035h3642. 89N/08609.
82WO000/000/ A=020238
20080714191106, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/191105h3642. 81N/08609.
55WO000/000/ A=019362
20080714191136, KI4KXM-11>APT311,WIDE2- 1,qAR,KG4FZR- 7:/191135h3642. 74N/08609.
31WO000/000/ A=018486
20080714191238, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/191235h3642. 64N/08608.
90WO000/000/ A=016849
20080714191307, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191305h3642. 53N/08608.
70WO000/000/ A=015966
20080714191337, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191335h3642. 43N/08608.
60WO000/000/ A=015008
20080714191407, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191405h3642. 34N/08608.
51WO000/000/ A=014136/ Kentucky Space Balloon-1, I'm Alive!
20080714191437, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /191435h3642. 23N/08608.
44WO000/000/ A=013319
20080714191507, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191505h3642. 11N/08608.
35WO000/000/ A=012495
20080714191537, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191535h3641. 94N/08608.
26WO000/000/ A=011675
20080714191607, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191605h3641. 77N/08608.
21WO000/000/ A=010855/ Kentucky Space Balloon-1, I'm Alive!
20080714191637, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191635h3641. 61N/08608.
19WO000/000/ A=010065
20080714191707, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191705h3641. 46N/08608.
17WO000/000/ A=009290
20080714191737, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191735h3641. 30N/08608.
16WO000/000/ A=008509
20080714191808, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191805h3641. 09N/08608.
16WO000/000/ A=007778/ Kentucky Space Balloon-1, I'm Alive!
20080714191907, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /191905h3640. 88N/08608.
23WO000/000/ A=006262
20080714191937, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/191935h3640. 81N/08608.
28WO000/000/ A=005455
20080714192009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/192005h3640. 77N/08608.
29WO000/000/ A=004615/ Kentucky Space Balloon-1, I'm Alive!
20080714192107, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /192105h3640. 70N/08608.
28WO000/000/ A=002978

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4507. Re: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-20 05:25:23 UTC
From: Mike Manes
Topic: 4500 Message: 4507

Does the MicroTrak PLL stay locked at low temps?
73 de Mike W5VSI, CTO EOSS

Meer, Stephen wrote:
> EOSS has flown a Garmin-18 many times as part of our B-LAN system with no altitude, or any
other issues. Unit flys connected to an Atmel CPU running our code reporting all NEMA
sentences native to the unit.
>
> Seems to point to things beyond the GPS units at this point.
>
> /s/Stephen Meer, K0SCC
>
>
>
>
> ***This message has been sent via the Intrado Wireless Information Network.***
>
> ----- Original Message -----
> From: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
> To: GPSL@yahoogroups.com <GPSL@yahoogroups.com>
> Sent: Wed Jul 16 19:08:02 2008
> Subject: Re: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?
>
> Bill,
>
> I can report that the Adler group has had similar problems using the Garmin GPS-18 (which we all know works at altitude) with the Microtrak300 but at much higher altitudes
(usually over 80K). Position reports continue to be received sans Altitude. As the balloon
descends, altitude reports are received again. The exact cause of this behavior has yet
to be determined. I'm beginning to wonder if the problem is in the Microtrak.
>
> It will be interesting to see what other reports you receive concerning this behavior.
>
> Kent Ochs
> W9KAO
>
>
> ----- Original Message ----
> From: "wb8elk@..." <wb8elk@...>

> To: GPSL@yahoogroups.com
> Cc: ! ballooning@yahoogroups.com; balloon_sked@yahoogroups.com;
balloonatics@yahoogroups.com
> Sent: Wednesday, July 16, 2008 6:25:13 PM
> Subject: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?
>
>
>
> During our recent Kentucky Space 1 balloon flight, the student team used a Trimble Copernicus GPS hooked up to a Byonics Microtrak300. However the Copernicus failed to report position above 29,630 feet on the ascent (the Microtrak300 continued to report the last valid position) and didn't start reporting valid altitude and position again until it dropped below 26,638 feet on the descent.
>
> Any ideas as to whether it's a problem with the Copernicus or with the way the Microtrak300 parses the GPS string? Since the wind speed and direction fields were not reporting, it may be that the Copernicus was not sending out the $GPRMC field or there was a parsing problem.
>
> Has anyone else flown a Trimble Copernicus GPS on an ARHAB flight?
>
> Any ideas on this one would be greatly appreciated. ....the Copernicus GPS is advertised by Trimble as being excellent for scientific ballooning use, so this behavior is puzzling.
>
> - Bill WB8ELK
>
> Raw data follows:
>
> 20080714173908, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/173905h3657. 32N/08625. 19WO000/000/ A=001551
> 20080714173938, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/173935h3657. 27N/08625. 17WO000/000/ A=001876
> 20080714174009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/174005h3657. 20N/08625. 17WO000/000/ A=002217/ Kentucky Space Balloon-1, I'm Alive!
> 20080714174037, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /174035h3657. 12N/08625. 18WO000/000/ A=002578
> 20080714174137, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174135h3656. 95N/08625. 24WO000/000/ A=003375
> 20080714174208, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174205h3656. 86N/08625. 26WO000/000/ A=003785/ Kentucky Space Balloon-1, I'm Alive!
> 20080714174237, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174235h3656. 80N/08625. 29WO000/000/ A=004192
> 20080714174337, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174335h3656. 65N/08625. 33WO000/000/ A=005199
> 20080714174438, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/174435h3656. 29N/08625. 30WO000/000/ A=006344
> 20080714174507, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174505h3656. 08N/08625. 25WO000/000/ A=006938
> 20080714174537, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174535h3655. 89N/08625. 24WO000/000/ A=007486

> 20080714174607, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174605h3655. 71N/08625.
22WO000/000/ A=008090/ Kentucky Space Balloon-1, I'm Alive!
> 20080714174637, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174635h3655. 55N/08625.
18WO000/000/ A=008710
> 20080714174809, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/174805h3655. 04N/08624.
92WO000/000/ A=010491/ Kentucky Space Balloon-1, I'm Alive!
> 20080714174837, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /174835h3654. 89N/08624.
81WO000/000/ A=011052
> 20080714174937, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /174935h3654. 61N/08624.
65WO000/000/ A=012223
> 20080714175007, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /175005h3654. 49N/08624.
56WO000/000/ A=012840/ Kentucky Space Balloon-1, I'm Alive!
> 20080714175037, KI4KXM-11>APT311,N9UMJ- 10,WIDE2* ,qAR,WB9TLH- 12:/175035h3654.
39N/08624. 46WO000/000/ A=013519
> 20080714175107, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /175105h3654. 29N/08624.
29WO000/000/ A=014169
> 20080714175136, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175135h3654. 21N/08624.
11WO000/000/ A=014821
> 20080714175206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175205h3654. 16N/08623.
92WO000/000/ A=015491/ Kentucky Space Balloon-1, I'm Alive!
> 20080714175236, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175235h3654. 13N/08623.
75WO000/000/ A=016144
> 20080714175306, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175305h3654. 07N/08623.
55WO000/000/ A=016767
> 20080714175336, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175335h3654. 01N/08623.
31WO000/000/ A=017410
> 20080714175406, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175405h3653. 96N/08623.
04WO000/000/ A=018063/ Kentucky Space Balloon-1, I'm Alive!
> 20080714175436, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175435h3653. 88N/08622.
78WO000/000/ A=018712
> 20080714175506, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175505h3653. 81N/08622.
52WO000/000/ A=019345
> 20080714175536, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175535h3653. 74N/08622.
26WO000/000/ A=020038
> 20080714175606, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175605h3653. 68N/08621.
97WO000/000/ A=020720/ Kentucky Space Balloon-1, I'm Alive!
> 20080714175636, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/175635h3653. 65N/08621.
71WO000/000/ A=021389
> 20080714175706, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175705h3653. 61N/08621.
44WO000/000/ A=022081
> 20080714175736, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /175735h3653. 53N/08621.
15WO000/000/ A=022761
> 20080714175806, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175805h3653. 44N/08620.
83WO000/000/ A=023433/ Kentucky Space Balloon-1, I'm Alive!
> 20080714175836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175835h3653. 36N/08620.
52WO000/000/ A=024109
> 20080714175906, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175905h3653. 29N/08620.
22WO000/000/ A=024781
> 20080714175936, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175935h3653. 20N/08619.
90WO000/000/ A=025444

> 20080714180006, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180005h3653. 09N/08619.
59WO000/000/ A=026104/ Kentucky Space Balloon-1, I'm Alive!
> 20080714180036, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180035h3652. 98N/08619.
29WO000/000/ A=026796
> 20080714180106, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180105h3652. 90N/08618.
98WO000/000/ A=027495
> 20080714180136, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180135h3652. 81N/08618.
65WO000/000/ A=028203
> 20080714180206, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180205h3652. 72N/08618.
35WO000/000/ A=028915/ Kentucky Space Balloon-1, I'm Alive!
> 20080714180208, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180105h3652. 90N/08618.
98WO000/000/ A=027495
> 20080714180236, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=029630
> 20080714180306, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714180337, KI4KXM-11>APT311,W4KCO- 3,WIDE2*, qAS,WA4YYM: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714180407, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714180437, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714180606, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714180636, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714180739, KI4KXM-11>APT311,WIDE2- 1,qAR,WD9EKA: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714180806, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714180836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714180936, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4YTM- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714181006, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714181036, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714181137, KI4KXM-11>APT311,W4KCO- 3,WIDE2*, qAR,KG4FZR- 7:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714181206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714181236, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714181406, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714181435, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714181606, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!

> 20080714181636, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714181805, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714181836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714182007, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAS,AJ4IS- 5:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
> 20080714182037, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
> 20080714182205, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky Space Balloon-1, I'm Alive!
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> 20080714184034, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
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> 20080714184234, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
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> 20080714184404, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
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> 20080714184536, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAR,KB7TBT: /180235h3652. 62N/08618.
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> 20080714185205, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /180235h3652. 62N/08618.
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> 20080714185237, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
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> 20080714185634, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
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> 20080714185805, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
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> 20080714185826, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618.
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> 20080714190034, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /180235h3652. 62N/08618.
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> 20080714190405, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/180235h3652. 62N/08618.
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> 20080714190434, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
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> 20080714191136, KI4KXM-11>APT311,WIDE2- 1,qAR,KG4FZR- 7:/191135h3642. 74N/08609.
31WO000/000/ A=018486
> 20080714191238, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/191235h3642. 64N/08608.
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> 20080714191637, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191635h3641. 61N/08608.
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16WO000/000/ A=007778/ Kentucky Space Balloon-1, I'm Alive!
> 20080714191907, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /191905h3640. 88N/08608.
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> 20080714192009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/192005h3640. 77N/08608.
29WO000/000/ A=004615/ Kentucky Space Balloon-1, I'm Alive!
> 20080714192107, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /192105h3640. 70N/08608.
28WO000/000/ A=002978
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4508. BASE 27 update

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-21 19:23:10 UTC
From: BASE
Topic: 4508 Message: 4508

Dear friends,

Sorry for the late notice, but summer thundershowers with a slow moving front have made for a tough call on the launch time.

BASE 27 will be launched on Tuesday, 22 July at 1700 UTC (1 pm Eastern Daylight Time) from the DePauw campus. Landing is anticipated in the general neighborhood of Shelbyville, Indiana at 19:40 UTC. LiftWin suggests a 100,000 foot burst altitude as we climb at 750 ft/minute.

Will carry the photometric and sky polarization experiments and APRS data at 144.39 MHz.

Hope to post the results late on Tuesday.

Howard

4509. BASE 27 - completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-23 01:06:05 UTC
From: BASE
Topic: 4509 Message: 4509

BASE 27 was successfully completed today. Launch at 1700 UTC. Burst at 1845 UTC. Average ascent rate of 900 ft/min. Landing at 1930 UTC. Slow descent resulted in a significantly longer track than predicted. Recovery accomplished by a mowing contractor that took the entire payload with him to his next job (we lost him on the ground), but he returned at 2100 UTC to the landing site with all systems safe. Data analysis and website update will begin in the morning. (www.depauw.edu/acad/physics/base)

I'm modifying our contact information to request an immediate phone call when located.

Next flight at GPSL.

Hope to see some of you there.

Howard

4510. New Email Address

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-24 01:49:49 UTC
From: L. Paul Verhage
Topic: 4510 Message: 4510
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4511. Re: [GPSL] Garmin 18 and MicroTrak300 performance

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-25 14:16:08 UTC
From: BASE
Topic: 4511 Message: 4511

Dear friends,

Our program has had no problems with the TU-301 unit from StratoStar systems on several flights. Their unit uses the Garmin 18 and the MicroTrak 300. The system is completely enclosed in styrofoam. The Garmin 18 is mounted on one end and DB-9 connector is surface mounted on the opposite end. Power is supplied by rechargeable lithium-ion batteries I believe the well insulated nature of the package is good for the MicroTrak.

We have flown other geometries of Garmin 18 and MicroTrak 300 with transmission failures at tropopause altitudes or higher. In one case, the system recovered after warming up at the landing site(atop two 80 foot tall trees) for three hours. Other geometries that failed revealed a working Garmin 18 at landing, even if the MicroTrak was not functioning.

I can't find any fault with the Garmin 18, but do wonder about the temperature performance of the MicroTrak 300. Another experiment for the cold chamber awaits.

Howard

--- On Wed, 7/16/08, Kent Ochs <kentochs@...> wrote:
From: Kent Ochs <kentochs@...>
Subject: Re: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?
To: GPSL@yahoogroups.com
Date: Wednesday, July 16, 2008, 9:08 PM

Bill,

I can report that the Adler group has had similar problems using the Garmin GPS-18 (which we all know works at altitude) with the Microtrak300 but at much higher altitudes (usually over 80K). Position reports continue to be received sans Altitude. As the balloon descends, altitude reports are received again. The exact cause of this behavior has yet to be determined. I'm beginning to wonder if the problem is in the Microtrak.

It will be interesting to see what other reports you receive concerning this behavior.

Kent Ochs
W9KAO

----- Original Message ----
From: "wb8elk@aol. com" <wb8elk@...>
To: GPSL@yahoogroups. com
Cc: ballooning@yahoogro ups.com; balloon_sked@ yahoogroups. com; balloonatics@ yahoogroups. com
Sent: Wednesday, July 16, 2008 6:25:13 PM
Subject: [GPSL] Trimble Copernicus GPS performance on ARHAB balloon flights?

During our recent Kentucky Space 1 balloon flight, the student team used a
Trimble Copernicus GPS hooked up to a Byonics Microtrak300. However the
Copernicus failed to report position above 29,630 feet on the ascent (the

Microtrak300 continued to report the last valid position) and didn't start reporting valid altitude and position again until it dropped below 26,638 feet on the descent.

Any ideas as to whether it's a problem with the Copernicus or with the way the Microtrak300 parses the GPS string? Since the wind speed and direction fields were not reporting, it may be that the Copernicus was not sending out the $GPRMC field or there was a parsing problem.

Has anyone else flown a Trimble Copernicus GPS on an ARHAB flight?

Any ideas on this one would be greatly appreciated. ....the Copernicus GPS is advertised by Trimble as being excellent for scientific ballooning use, so this behavior is puzzling.

- Bill WB8ELK

Raw data follows:

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20080714173908, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/173905h3657. 32N/08625.
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17WO000/000/ A=001876
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17WO000/000/ A=002217/ Kentucky
Space Balloon-1, I'm
Alive!
20080714174037, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /174035h3657. 12N/08625.
18WO000/000/ A=002578
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26WO000/000/ A=003785/ Kentucky
Space Balloon-1, I'm
Alive!
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20080714174537, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/174535h3655. 89N/08625.
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20080714174607, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /174605h3655. 71N/08625.
22WO000/000/ A=008090/ Kentucky
Space Balloon-1, I'm
Alive!
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18WO000/000/ A=008710
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92WO000/000/ A=010491/ Kentucky
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Alive!
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65WO000/000/ A=012223
20080714175007, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /175005h3654. 49N/08624.
56WO000/000/ A=012840/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175037, KI4KXM-11>APT311,N9UMJ- 10,WIDE2* ,qAR,WB9TLH- 12:/175035h3654. 39N/08624.
46WO000/000/ A=013519
20080714175107, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /175105h3654. 29N/08624.
29WO000/000/ A=014169
20080714175136, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175135h3654. 21N/08624. 11WO000/000/
A=014821
20080714175206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175205h3654. 16N/08623.
92WO000/000/ A=015491/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175236, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175235h3654. 13N/08623.
75WO000/000/ A=016144
20080714175306, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175305h3654. 07N/08623.
55WO000/000/ A=016767
20080714175336, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175335h3654. 01N/08623.
31WO000/000/ A=017410
20080714175406, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175405h3653. 96N/08623. 04WO000/000/
A=018063/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175436, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175435h3653. 88N/08622.
78WO000/000/ A=018712
20080714175506, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175505h3653. 81N/08622.
52WO000/000/ A=019345
20080714175536, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175535h3653. 74N/08622.
26WO000/000/ A=020038
20080714175606, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175605h3653. 68N/08621.
97WO000/000/ A=020720/ Kentucky
Space Balloon-1, I'm
Alive!
20080714175636, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/175635h3653. 65N/08621.
71WO000/000/ A=021389
20080714175706, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175705h3653. 61N/08621.
44WO000/000/ A=022081
20080714175736, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /175735h3653. 53N/08621.
15WO000/000/ A=022761
20080714175806, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175805h3653. 44N/08620.
83WO000/000/ A=023433/ Kentucky
Space Balloon-1, I'm
Alive!

20080714175836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175835h3653. 36N/08620. 52WO000/000/
A=024109
20080714175906, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /175905h3653. 29N/08620. 22WO000/000/
A=024781
20080714175936, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/175935h3653. 20N/08619.
90WO000/000/ A=025444
20080714180006, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180005h3653. 09N/08619.
59WO000/000/ A=026104/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180036, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180035h3652. 98N/08619. 29WO000/000/
A=026796
20080714180106, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180105h3652. 90N/08618.
98WO000/000/ A=027495
20080714180136, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180135h3652. 81N/08618.
65WO000/000/ A=028203
20080714180206, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180205h3652. 72N/08618. 35WO000/000/
A=028915/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180208, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180105h3652. 90N/08618. 98WO000/000/
A=027495
20080714180236, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=029630
20080714180306, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714180337, KI4KXM-11>APT311,W4KCO- 3,WIDE2*, qAS,WA4YYM: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180407, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180437, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180606, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180636, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180739, KI4KXM-11>APT311,WIDE2- 1,qAR,WD9EKA: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714180806, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714180836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714180936, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4YTM- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000

20080714181006, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181036, KI4KXM-11>APT311,WIDE2- 1,qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181137, KI4KXM-11>APT311,W4KCO- 3,WIDE2*, qAR,KG4FZR- 7:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181206, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181236, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181406, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181435, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181606, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181636, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714181805, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714181836, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714182007, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAS,AJ4IS- 5:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182037, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182205, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182235, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182336, KI4KXM-11>APT311,KB4YTM- 4,WIDE2*, qAR,KB4YTM- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182405, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!

20080714182435, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182454, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182605, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182635, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714182735, KI4KXM-11>APT311,WIDE2- 1,qAo,KD4SN: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714182805, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714182835, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183005, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183035, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183135, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183205, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183235, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183405, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183435, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183605, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714183636, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAS,AJ4IS- 5:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183805, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!

20080714183834, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714183937, KI4KXM-11>APT311,K0STL- 15*,WIDE2, qAS,N0PTN- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184004, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184034, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184204, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184234, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184254, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184404, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184434, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184536, KI4KXM-11>APT311,N4VDE- 3*,WIDE2, qAR,KB7TBT: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184604, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184704, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714184804, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714184829, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714184905, KI4KXM-11>APT311,K9IU- 10,K9IU-12* ,qAR,K9IU- 14:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185004, KI4KXM-11>APT311,WIDE2- 1,qAR,KY4K: /180235h3652. 62N/08618. 02WO000/000/
A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714185034, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185205, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky

Space Balloon-1, I'm
Alive!
20080714185237, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185434, KI4KXM-11>APT311,WIDE2- 1,qAR,WA4BDS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185634, KI4KXM-11>APT311,WIDE2- 1,qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714185805, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714185826, KI4KXM-11>APT311,TCPIP* ,qAS,WB8NUT: /180235h3652. 62N/08618. 02WO000/000/
A=000000
20080714185905, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190004, KI4KXM-11>APT311,WIDE2- 1,qAR,WB9TLH- 12:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190034, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190135, KI4KXM-11>APT311,WA4ZKO- 10,WIDE2* ,qAR,KC9HAX: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190204, KI4KXM-11>APT311,WIDE2- 1,qAR,N4CKV- 2:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190234, KI4KXM-11>APT311,NT4UX- 3*,WIDE2, qAR,KQ4TV- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190334, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190405, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190434, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190520, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,KQ4TV- 1:/180235h3652. 62N/08618.
02WO000/000/ A=000000
20080714190707, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /190705h3643. 44N/08611.
79WO000/000/ A=026638
20080714190737, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /190735h3643. 32N/08611.
48WO000/000/ A=025775
20080714190808, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/190805h3643. 22N/08611.
16WO000/000/ A=024824/ Kentucky
Space Balloon-1, I'm
Alive!
20080714190837, KI4KXM-11>APT311,N9AZZ- 2*,WIDE2, qAR,WB0VTM: /190835h3643. 13N/08610.
88WO000/000/ A=023899

20080714190909, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /190905h3643. 08N/08610.
62WO000/000/ A=022961
20080714190937, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /190935h3643. 02N/08610.
37WO000/000/ A=022068
20080714191037, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191035h3642. 89N/08609.
82WO000/000/ A=020238
20080714191106, KI4KXM-11>APT311,WIDE2- 1,qAR,KB4JHU- 15:/191105h3642. 81N/08609.
55WO000/000/ A=019362
20080714191136, KI4KXM-11>APT311,WIDE2- 1,qAR,KG4FZR- 7:/191135h3642. 74N/08609.
31WO000/000/ A=018486
20080714191238, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/191235h3642. 64N/08608.
90WO000/000/ A=016849
20080714191307, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191305h3642. 53N/08608.
70WO000/000/ A=015966
20080714191337, KI4KXM-11>APT311,KF4OWQ-
2,WIDE2*, qAR,KF4ZUX: /191335h3642. 43N/08608. 60WO000/000/ A=015008
20080714191407, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191405h3642. 34N/08608.
51WO000/000/ A=014136/ Kentucky Space Balloon-1,
I'm
Alive!
20080714191437, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4IFC: /191435h3642. 23N/08608.
44WO000/000/ A=013319
20080714191507, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191505h3642. 11N/08608.
35WO000/000/ A=012495
20080714191537, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191535h3641. 94N/08608.
26WO000/000/ A=011675
20080714191607, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191605h3641. 77N/08608.
21WO000/000/ A=010855/ Kentucky
Space Balloon-1, I'm
Alive!
20080714191637, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191635h3641. 61N/08608.
19WO000/000/ A=010065
20080714191707, KI4KXM-11>APT311,KF4OWQ- 2,WIDE2*, qAR,KF4ZUX: /191705h3641. 46N/08608.
17WO000/000/ A=009290
20080714191737, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191735h3641. 30N/08608.
16WO000/000/ A=008509
20080714191808, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /191805h3641. 09N/08608.
16WO000/000/ A=007778/ Kentucky
Space Balloon-1, I'm
Alive!
20080714191907, KI4KXM-11>APT311,WD4INS- 4,WIDE2*, qAR,WX4MET: /191905h3640. 88N/08608.
23WO000/000/ A=006262
20080714191937, KI4KXM-11>APT311,N4CKV- 1,WIDE2*, qAR,N4CKV- 2:/191935h3640. 81N/08608.
28WO000/000/ A=005455
20080714192009, KI4KXM-11>APT311,NT4UX- 2,WIDE2*, qAR,K2HAL- 1:/192005h3640. 77N/08608.
29WO000/000/ A=004615/ Kentucky
Space Balloon-1, I'm
Alive!
20080714192107, KI4KXM-11>APT311,K1LH- 3,WIDE2*, qAR,N4WS: /192105h3640. 70N/08608.
28WO000/000/ A=002978

Get the scoop on last night's hottest shows and the live music scene in your area - Check out TourTracker. com!

4512. GPSL Predictions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-25 22:32:22 UTC
From: Harry M
Topic: 4512 Message: 4512

I was just checking the predictions as posted on the Superlaunch website.
The results show that the GFSlr MCI data was used, but not which data set.
Is there a way to add this to the data on the right side of the screen?

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

4513. GPSL Presentation Schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-26 19:26:33 UTC
From: Keith Kaiser
Topic: 4513 Message: 4513

Aeronauts,

I've added the presentation schedule to the web page (superlaunch.org), if any of you doing presentations finds the time too short (long) or at a less than ideal time please let me know asap and I'll try and make adjustments.

For now lets consider this a preliminary schedule, so no one gets too concerned about it being locked in cement.

73's

Kansas City or Burst!
-- Keith

4514. Re: [GPSL] GPSL Presentation Schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-26 21:16:16 UTC
From: L. Paul Verhage
Topic: 4513 Message: 4514
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4515. Re: [GPSL] GPSL Presentation Schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-26 22:16:17 UTC
From: Keith Kaiser
Topic: 4513 Message: 4515

Good catch Paul. Yes if 1pm is OK with you we'll leave it then.

Thanks..

On Jul 26, 2008, at 4:16 PM, L. Paul Verhage wrote:

>
> I see I'm listed twice. I assume the 1 PM is my real time slot.
>
> Last year I started the Launched all States award (you can see the
> listing on my website, nearsys.com). Does anyone need me to add new
> states to their entery?
>
> Onwards and Upwards,
> Paul
>
> On Sat, Jul 26, 2008 at 1:26 PM, Keith Kaiser <wa0tjt@...>
> wrote:
> Aeronauts,
>
> I've added the presentation schedule to the web page
> (superlaunch.org), if any of you doing presentations finds the time
> too short (long) or at a less than ideal time please let me know asap
> and I'll try and make adjustments.
>
> For now lets consider this a preliminary schedule, so no one gets too
> concerned about it being locked in cement.
>
> 73's
>
> Kansas City or Burst!
> -- Keith
>
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> Yahoo! Groups Links
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4516. Re: [GPSL] Launched All States Award

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 04:00:29 UTC
From: wb8elk@aol.com
Topic: 4516 Message: 4516

Hi Paul,

Although I've landed in Kentucky many times over the years, I finally got a chance to actually launch one from there 2 weeks ago...so that makes 19 total states now.....If we fly from a launch site inside of Missouri next weekend, then that will make 20 in total.

- Bill WB8ELK

**********Get fantasy football with free live scoring. Sign up for FanHouse Fantasy Football today.
(http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020)

4517. RE: [GPSL] Launched All States Award

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 12:58:39 UTC
From: Rick von Glahn
Topic: 4516 Message: 4517

Perhaps it would be amusing to amend this record to "Flown Over All States Award" and also perhaps, most states flown over in a single flight. EOSS recently flew over Colorado, Wyoming and landed in Nebraska during a single mission. That was fun. :-)

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Saturday, July 26, 2008 10:00 PM
To: GPSL@yahoogroups.com
Cc: nearsys@...
Subject: Re: [GPSL] Launched All States Award

Hi Paul,

Although I've landed in Kentucky many times over the years, I finally got a chance to actually launch one from there 2 weeks ago...so that makes 19 total states now.....If we fly from a launch site inside of Missouri next weekend, then that will make 20 in total.

- Bill WB8ELK

Get fantasy football with free live scoring. Sign up <http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020> for FanHouse Fantasy Football today.

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.6/1574 - Release Date: 7/25/2008 4:27 PM

4518. Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 14:39:13 UTC
From: Joe
Topic: 4518 Message: 4518

Hi All,

Wish I was able to be there But just not in the cards so to speak. Someday, Someday!

But NSS is doing a flight the following weekend. on August 9th.

We will be flying the payload that was going to fly a while ago, but just could not get a sastifactory landing spot, remember we would have a high possibility of landing in lake Michigan that day no matter what we flew for lift?

Anyway, the usual APRS 144.39 WB9FDZ-11

And our crossband repeater 144/446.

But here's the question for you all. Suggested freqs to use.

In the past on these flights we have used all sorts of freqs. first starting off with ones as far off the beaten path as possible. But then the only people that were able to enjoy it were people involved with the flight, and the people on these e mail lists etc. While still fun, a simple and fun payload like this we'd like to share with the rest of the amateur community.

So almost exactly a year later, we are flying this crossband repeater again. And are trying to decide what freq pair to use. Last year while fun, 99% of the people involved had a blast! And we made 238 QSO's during the flight! BUT it was using a freq pairing that caused a LOT of confusion, 146.52 / 446.000,,,,,,,

While 99% of the people that used it that day enjoyed it greatly, there were that 1% that slammed us greatly for using those freqs even though it was only for two hours, Then there were the ones that no matter how many times we explained to them that it was a cross band repeater at 100,000 feet and NOT A HUGE BAND OPENING, they were calling people like after we'd sign with someone, they'd go,

WB9SBD THIS IS K9XYZ GO UP to 146.55 I'LL CALL YA. and stuff like that.. they just no matter how many times we explained what was going on they still thought it was a huge band opening , not a 2 watt repeater on the equivalent of a 100,000 foot tall tower!

So obviously we don't want to use those call freqs again, but a secondary pair so to speak, that are like secondary splinter freqs, like 146.52. has 146.55 and 146.58 stuff like that, but, I can not seem to find freqs that are secondary freqs like that but on 70 cm. Ya know a slinter freq for 446.000.

While it won't be nearly as popular as the 146.52 / 446.000 pairing, it still at least will get a few more people that do not know about the flight a chance to play with it.

I've contacted our local Repeater co-oridinator group fopr suggestions, and have had the same result I've gotten from them for the past 20 years ZILCH!
any suggestions? for a two hour experiment?

Joe WB9SBD
Near Space Sciences

4519. Good luck at GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 14:50:19 UTC
From: zclobes
Topic: 4519 Message: 4519

I'm sorry I've got other commitments next weekend myself.

I wish I was there!

Zack Clobes, W0ZC

4520. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 14:59:38 UTC
From: Mark Conner
Topic: 4518 Message: 4520

NSTAR has used 446.30 MHz for its simplex repeater and 147.585 MHz for SSTV without complaint. We did a couple of flights on 446.00 and had about 50% "ooh, that's cool" and 50% "why are you on the calling freq". After 446.00, we used 446.10 and found some 9600 was on the frequency (Des Moines area?). 446.30 MHz has been clear.

Our use of 147.585 MHz has been transmit-only, so I don't know if there are regular users of that frequency within our footprint or not.

73 de Mark N9XTN

> I've contacted our local Repeater co-oridinator group fopr suggestions,
> and have had the same result I've gotten from them for the past 20
> years ZILCH!
> any suggestions? for a two hour experiment?
>
> Joe WB9SBD
> Near Space Sciences
>

4521. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 15:03:09 UTC
From: Joe
Topic: 4518 Message: 4521

Hi Mark,

Yeah thet is the main problem with the 70 cm band, you just have no clue as to what is on any freq, sooo many un published links and such.

On 2 meters (birdie allowing we will probably choose 146.55, but the 70 cm freq, ya would think there would be somewhat like 55 and 58 are ya know alternate secondary freqs but on 70 cm.

soo much a bummer!

Joe NSS

Mark Conner wrote:

>NSTAR has used 446.30 MHz for its simplex repeater and 147.585 MHz for
>SSTV without complaint. We did a couple of flights on 446.00 and had
>about 50% "ooh, that's cool" and 50% "why are you on the calling
>freq". After 446.00, we used 446.10 and found some 9600 was on the
>frequency (Des Moines area?). 446.30 MHz has been clear.
>
>Our use of 147.585 MHz has been transmit-only, so I don't know if
>there are regular users of that frequency within our footprint or not.
>
>73 de Mark N9XTN
>
>
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>
>>I've contacted our local Repeater co-oridinator group fopr suggestions,
>>and have had the same result I've gotten from them for the past 20
>>years ZILCH!
>>any suggestions? for a two hour experiment?
>>
>>Joe WB9SBD
>>Near Space Sciences
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>Yahoo! Groups Links
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4522. Re: [GPSL] simplex and crossband frequency choices

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 20:19:09 UTC
From: wb8elk@aol.com
Topic: 4522 Message: 4522

Hi Joe,

I've used 144.36 MHz for an input and ouput (simplex repeater) with no complaints.

If you also fly ATV, then 144.34 is a good choice since that is the ATV coordination frequency....if no ATV then that's not recommended.

I've also seen 146.46 flown as well with good results.

As to the 70 cm band.....I've had good luck with 446.025 MHz...or 445.075.

- Bill WB8ELK

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(http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020)

4523. Re: [GPSL] simplex and crossband frequency choices

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-27 21:37:35 UTC
From: Harry M
Topic: 4522 Message: 4523

I sent my freq's to Brian kcshorty@... and have not got a response or see them listed so I thought I'd post them here.

I'm also in for in for 1-K-tank of Helium and 1 lunch, but have seen no price for a K-tank.

ORB
APRS 144.340/144.240 or 144.360/144,260 (.360 preferred if Igated)

NOTE - I use a non-standard offset for cutdown.
If my APRS is on 144.340 I use 144.240 for cutdown.
If my APRS is on 144.360 I use 144.260 for cutdown.

CW beacon - 147.435 (rock bound)
10m Beacon - 28.635 (rock bound)

---

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

4524. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 00:53:43 UTC
From: Mike Manes
Topic: 4518 Message: 4524

If your crossband radio can do splits on VHF and UHF sides, then might consider setting it up to work a pair of repeaters, with the trustees' OK of course. ANSR runs its on IRLP repeaters and gets out all over the world!

73 de Mike W5VSI

Joe wrote:
> Hi All,
>
> Wish I was able to be there But just not in the cards so to speak.
> Someday, Someday!
>
> But NSS is doing a flight the following weekend. on August 9th.
>
> We will be flying the payload that was going to fly a while ago, but
> just could not get a sastifactory landing spot, remember we would have a
> high possibility of landing in lake Michigan that day no matter what we
> flew for lift?
>
> Anyway, the usual APRS 144.39 WB9FDZ-11
>
> And our crossband repeater 144/446.
>
> But here's the question for you all. Suggested freqs to use.
>
> In the past on these flights we have used all sorts of freqs. first
> starting off with ones as far off the beaten path as possible. But then
> the only people that were able to enjoy it were people involved with the
> flight, and the people on these e mail lists etc. While still fun, a
> simple and fun payload like this we'd like to share with the rest of the
> amateur community.
>
> So almost exactly a year later, we are flying this crossband repeater
> again. And are trying to decide what freq pair to use. Last year while
> fun, 99% of the people involved had a blast! And we made 238 QSO's
> during the flight! BUT it was using a freq pairing that caused a LOT of
> confusion, 146.52 / 446.000,,,,,,,
>
> While 99% of the people that used it that day enjoyed it greatly, there
> were that 1% that slammed us greatly for using those freqs even though
> it was only for two hours, Then there were the ones that no matter how
> many times we explained to them that it was a cross band repeater at
> 100,000 feet and NOT A HUGE BAND OPENING, they were calling people like
> after we'd sign with someone, they'd go,

>
> WB9SBD THIS IS K9XYZ GO UP to 146.55 I'LL CALL YA. and stuff like
> that.. they just no matter how many times we explained what was going
> on they still thought it was a huge band opening , not a 2 watt repeater
> on the equivalent of a 100,000 foot tall tower!
>
> So obviously we don't want to use those call freqs again, but a
> secondary pair so to speak, that are like secondary splinter freqs,
> like 146.52. has 146.55 and 146.58 stuff like that, but, I can not
> seem to find freqs that are secondary freqs like that but on 70 cm. Ya
> know a slinter freq for 446.000.
>
> While it won't be nearly as popular as the 146.52 / 446.000 pairing, it
> still at least will get a few more people that do not know about the
> flight a chance to play with it.
>
> I've contacted our local Repeater co-oridinator group fopr suggestions,
> and have had the same result I've gotten from them for the past 20
> years ZILCH!
> any suggestions? for a two hour experiment?
>
> Joe WB9SBD
> Near Space Sciences
>
> ---
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4525. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 00:10:46 UTC
From: Joe
Topic: 4518 Message: 4525

Now that is a possibility hmmmmm,, yes it can do that easily,, wow,
hmm from southern Wisconsin, I wonder in less than two weeks we could
find interested parties, he he he

Joe But yes a cool idea, we could easily link a ohio repeater to
something way out west,, or anyone still open fopr a linked EBBE
flight for the 9th?

Joe

Mike Manes wrote:

>If your crossband radio can do splits on VHF and UHF sides, then might
>consider setting it up to work a pair of repeaters, with the trustees'
>OK of course. ANSR runs its on IRLP repeaters and gets out all over the
>world!
>
>73 de Mike W5VSI
>
>Joe wrote:
>
>
>>Hi All,
>>
>>Wish I was able to be there But just not in the cards so to speak.
>>Someday, Someday!
>>
>>But NSS is doing a flight the following weekend. on August 9th.
>>
>>We will be flying the payload that was going to fly a while ago, but
>>just could not get a sastifactory landing spot, remember we would have a
>>high possibility of landing in lake Michigan that day no matter what we
>>flew for lift?
>>
>>Anyway, the usual APRS 144.39 WB9FDZ-11
>>
>>And our crossband repeater 144/446.
>>
>>But here's the question for you all. Suggested freqs to use.
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>>In the past on these flights we have used all sorts of freqs. first
>>starting off with ones as far off the beaten path as possible. But then
>>the only people that were able to enjoy it were people involved with the
>>flight, and the people on these e mail lists etc. While still fun, a
>>simple and fun payload like this we'd like to share with the rest of the
>>amateur community.

>>
>>So almost exactly a year later, we are flying this crossband repeater
>>again. And are trying to decide what freq pair to use. Last year while
>>fun, 99% of the people involved had a blast! And we made 238 QSO's
>>during the flight! BUT it was using a freq pairing that caused a LOT of
>>confusion, 146.52 / 446.000,,,,,,,
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>>were that 1% that slammed us greatly for using those freqs even though
>>it was only for two hours, Then there were the ones that no matter how
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>>100,000 feet and NOT A HUGE BAND OPENING, they were calling people like
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>>on they still thought it was a huge band opening , not a 2 watt repeater
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>>like 146.52. has 146.55 and 146.58 stuff like that, but, I can not
>>seem to find freqs that are secondary freqs like that but on 70 cm. Ya
>>know a slinter freq for 446.000.
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>>While it won't be nearly as popular as the 146.52 / 446.000 pairing, it
>>still at least will get a few more people that do not know about the
>>flight a chance to play with it.
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>>I've contacted our local Repeater co-oridinator group fopr suggestions,
>>and have had the same result I've gotten from them for the past 20
>>years ZILCH!
>>any suggestions? for a two hour experiment?
>>
>>Joe WB9SBD
>>Near Space Sciences
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>>Yahoo! Groups Links
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4526. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 00:11:31 UTC
From: Michael Gray
Topic: 4518 Message: 4526

The ANSR (Arizona) group has flown a cross band repeater since our second flight back in 2001 without any problems. No one has ever complained. We did select frequencies in the experimental portions of the 2 meter and 70cm band. There is one simplex node in VHF that is 10KHz off our uplink, but the operator just turns off his repeater during the flight. He likes the balloon stuff, so no problem there. I have a dedicated IRLP node that is configured to work cross band with the balloon. So we get lots of check in during the flight.

Uplink is 145.56MHz PL 162.2
Downlink is 445.525MHz
APRS Tracking 445.950MHz

Here is an overview of the setup.

http://www.kd7lmo.net/ground_irlp.html

One difference from most groups is we run 70cm APRS beacons. It makes the antennas smaller on the payloads, so we've stuck with the setup. We have a couple digipeaters on the ground to go from UHF to VHF on 144.390. We even have a couple stations now that point a UHF beam towards our flights and directly transfer to the APRS Internet feed.

So a possible suggestion....

Mike Manes wrote:
> If your crossband radio can do splits on VHF and UHF sides, then might
> consider setting it up to work a pair of repeaters, with the trustees'
> OK of course. ANSR runs its on IRLP repeaters and gets out all over the
> world!
>
> 73 de Mike W5VSI
>
> Joe wrote:
>> Hi All,
>>
>> Wish I was able to be there But just not in the cards so to speak.
>> Someday, Someday!
>>
>> But NSS is doing a flight the following weekend. on August 9th.
>>
>> We will be flying the payload that was going to fly a while ago, but
>> just could not get a sastifactory landing spot, remember we would have a
>> high possibility of landing in lake Michigan that day no matter what we
>> flew for lift?
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>> Anyway, the usual APRS 144.39 WB9FDZ-11
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>> And our crossband repeater 144/446.
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>> But here's the question for you all. Suggested freqs to use.
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>> In the past on these flights we have used all sorts of freqs. first
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>> the only people that were able to enjoy it were people involved with the
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>> confusion, 146.52 / 446.000,,,,,,,
>>
>> While 99% of the people that used it that day enjoyed it greatly, there
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>> it was only for two hours, Then there were the ones that no matter how
>> many times we explained to them that it was a cross band repeater at
>> 100,000 feet and NOT A HUGE BAND OPENING, they were calling people like
>> after we'd sign with someone, they'd go,
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>> WB9SBD THIS IS K9XYZ GO UP to 146.55 I'LL CALL YA. and stuff like
>> that.. they just no matter how many times we explained what was going
>> on they still thought it was a huge band opening , not a 2 watt repeater
>> on the equivalent of a 100,000 foot tall tower!
>>
>> So obviously we don't want to use those call freqs again, but a
>> secondary pair so to speak, that are like secondary splinter freqs,
>> like 146.52. has 146.55 and 146.58 stuff like that, but, I can not
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>> any suggestions? for a two hour experiment?
>>
>> Joe WB9SBD
>> Near Space Sciences
>>
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>> Yahoo! Groups Links
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4527. Re: simplex and crossband frequency choices

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 02:42:11 UTC
From: dlkaiser23
Topic: 4522 Message: 4527

Harry - I did get your helium and lunch orders and the helium and lunch was ordered for you.

I don't know about sizes, we were getting all the same size bottles of helium. As mentioned earlier, the price is $132 per bottle.

You can either pay on the superlaunch.org site using PayPal, or send a check made payable to Near Space Ventures, Inc and send it to me at 6024 N Ames, KC, MO 64151.

Thanks and see you soon!
73's
Deb Kaiser, W0DLK

4528. Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 12:48:38 UTC
From: Joe
Topic: 4528 Message: 4528

Hi Guys,

What was the make and model of the still camera that everyone was raving about not too long ago?
Joe

4529. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 13:19:07 UTC
From: Mark Conner
Topic: 4528 Message: 4529

A few groups, including NSTAR, just started using the Canon PowerShot A560. However, any camera compatible with the CHDK firmware (http://chdk.wikia.com/) will make a good balloon camera due to the scripting abilities of the firmware (does not require hardware mods to the camera).

73 de Mark N9XTN

----- Original Message -----
From: Joe <nss@...>
Date: Monday, July 28, 2008 7:48 am
Subject: [GPSL] Still Camera
To: GPSL@yahoogroups.com

> Hi Guys,
>
> What was the make and model of the still camera that everyone was
> raving
> about not too long ago?
> Joe
>

4530. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 13:20:57 UTC
From: Joe
Topic: 4528 Message: 4530

Hi mark,

anyone have a list of cameras that will work with that firmware?

Joe

Mark Conner wrote:

>A few groups, including NSTAR, just started using the Canon PowerShot A560. However, any camera compatible with the CHDK firmware (http://chdk.wikia.com/) will make a good balloon camera due to the scripting abilities of the firmware (does not require hardware mods to the camera).
>
>73 de Mark N9XTN
>
>----- Original Message -----
>From: Joe <nss@...>
>Date: Monday, July 28, 2008 7:48 am
>Subject: [GPSL] Still Camera
>To: GPSL@yahoogroups.com
>
>
>
>>Hi Guys,
>>
>>What was the make and model of the still camera that everyone was
>>raving
>>about not too long ago?
>>Joe
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>Yahoo! Groups Links
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4531. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 13:22:51 UTC
From: Mark Conner
Topic: 4528 Message: 4531
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4532. Re: [GPSL] Re: simplex and crossband frequency choices

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 15:19:21 UTC
From: Harry M
Topic: 4522 Message: 4532

I hate to waste more than half a bottle.
I only need about 130 cu/ft.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/

> I don't know about sizes, we were getting all the same size bottles of
> helium.

4533. Re: [GPSL] Re: simplex and crossband frequency choices

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 15:30:21 UTC
From: Keith Kaiser
Topic: 4522 Message: 4533

The gas is already ordered, if your tank has extra I'm sure one of us
will need it. Financial questions will happen then.

On Jul 28, 2008, at 10:19 AM, Harry M wrote:

> I hate to waste more than half a bottle.
> I only need about 130 cu/ft.
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
> -----
>
> > I don't know about sizes, we were getting all the same size
> bottles of
> > helium.
>
>
>

4534. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 18:08:43 UTC
From: Mark Garrett
Topic: 4518 Message: 4534

Hi All:
Like Joe, I wish I were able to go this year but a work event has sidelined me. Hope to go in another year.
Since I am just reading my email here I would say an initial vote would be 146.565 for VHF (several cw and voice beacons have used this frequency in the past and would probably be off the beaten path enough you would avoid most of the general chit chat on 146.520 and only run onto a few people who use that for radiolocation and such. On UHF possibly 446.500?
Others may have an input but what ever you land on Joe let us know and I hope to try and work your balloon from the south side of the Cheddar curtain.
Mark Garrett
KA9SZX

----- Original Message ----
From: Joe <nss@...>
To: GPSL@yahoogroups.com
Sent: Sunday, July 27, 2008 9:39:13 AM
Subject: [GPSL] Good Luck To Everyone Next Weekend!

Hi All,

Wish I was able to be there But just not in the cards so to speak.
Someday, Someday!

But NSS is doing a flight the following weekend. on August 9th.

We will be flying the payload that was going to fly a while ago, but just could not get a sastifactory landing spot, remember we would have a high possibility of landing in lake Michigan that day no matter what we flew for lift?

Anyway, the usual APRS 144.39 WB9FDZ-11

And our crossband repeater 144/446.

But here's the question for you all. Suggested freqs to use.

In the past on these flights we have used all sorts of freqs. first starting off with ones as far off the beaten path as possible. But then the only people that were able to enjoy it were people involved with the flight, and the people on these e mail lists etc. While still fun, a simple and fun payload like this we'd like to share with the rest of the amateur community.

So almost exactly a year later, we are flying this crossband repeater again. And are trying to decide what freq pair to use. Last year while fun, 99% of the people involved had a blast! And we made 238 QSO's

during the flight! BUT it was using a freq pairing that caused a LOT of confusion, 146.52 / 446.000,,,,, ,,

While 99% of the people that used it that day enjoyed it greatly, there were that 1% that slammed us greatly for using those freqs even though it was only for two hours, Then there were the ones that no matter how many times we explained to them that it was a cross band repeater at 100,000 feet and NOT A HUGE BAND OPENING, they were calling people like after we'd sign with someone, they'd go,

WB9SBD THIS IS K9XYZ GO UP to 146.55 I'LL CALL YA. and stuff like that.. they just no matter how many times we explained what was going on they still thought it was a huge band opening , not a 2 watt repeater on the equivalent of a 100,000 foot tall tower!

So obviously we don't want to use those call freqs again, but a secondary pair so to speak, that are like secondary splinter freqs, like 146.52. has 146.55 and 146.58 stuff like that, but, I can not seem to find freqs that are secondary freqs like that but on 70 cm. Ya know a slinter freq for 446.000.

While it won't be nearly as popular as the 146.52 / 446.000 pairing, it still at least will get a few more people that do not know about the flight a chance to play with it.

I've contacted our local Repeater co-oridinator group fopr suggestions, and have had the same result I've gotten from them for the past 20 years ZILCH!
any suggestions? for a two hour experiment?

Joe WB9SBD
Near Space Sciences

4535. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 19:18:09 UTC
From: Mike Manes
Topic: 4528 Message: 4535

Hi Joe,

EOSS has flown the A560is twice now, most recently last Saturday on EOSS-130,
where it worked like a charm. Rick N0KKZ has details at:
http://www.eoss.org/hardware/canon_a570is.htm

73 de Mike W5VSI

Mark Conner wrote:
> A few groups, including NSTAR, just started using the Canon PowerShot A560. However, any camera compatible with the CHDK firmware (http://chdk.wikia.com/) will make a good balloon camera due to the scripting abilities of the firmware (does not require hardware mods to the camera).
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Joe <nss@...>
> Date: Monday, July 28, 2008 7:48 am
> Subject: [GPSL] Still Camera
> To: GPSL@yahoogroups.com
>
>> Hi Guys,
>>
>> What was the make and model of the still camera that everyone was
>> raving
>> about not too long ago?
>> Joe
>>
>
> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4536. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 20:20:38 UTC
From: Joe
Topic: 4528 Message: 4536

Hi Mike,

the code on the page, do you know who made it? was it u?

or who, reason asking is, the camera that is coming is one step below
your 570 we have a 560 coming,

from what it looks like the only difference is slight, like image
stabilization the 570 has.

what ya think?

Joe

Mike Manes wrote:

>Hi Joe,
>
>EOSS has flown the A560is twice now, most recently last Saturday on EOSS-130,
>where it worked like a charm. Rick N0KKZ has details at:
>http://www.eoss.org/hardware/canon_a570is.htm
>
>73 de Mike W5VSI
>
>Mark Conner wrote:
>
>
>>A few groups, including NSTAR, just started using the Canon PowerShot A560. However, any
camera compatible with the CHDK firmware (http://chdk.wikia.com/) will make a good balloon
camera due to the scripting abilities of the firmware (does not require hardware mods to
the camera).
>>
>>73 de Mark N9XTN
>>
>>----- Original Message -----
>>From: Joe <nss@...>
>>Date: Monday, July 28, 2008 7:48 am
>>Subject: [GPSL] Still Camera
>>To: GPSL@yahoogroups.com
>>
>>
>>
>>>Hi Guys,
>>>
>>>What was the make and model of the still camera that everyone was
>>>raving
>>>about not too long ago?

>>>Joe
>>>
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>>Yahoo! Groups Links
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4537. Re: Final Freq Updates

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 22:11:33 UTC
From: Nicholas Stich
Topic: 4504 Message: 4537

Brian it appears that only myself and Bill are using 144.99.

I had wanted to TX twice a minute but the slot of 18 would put me on top of Bill. I want to change my second APRS to K0NMS-1 / 144.99 /using slot 25 & 55.

If this change is going to cause anybody else trouble let me and I can change as needed.

Cheers,
Nick
KØNMS / WPWG368

4538. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 23:22:00 UTC
From: Mike Manes
Topic: 4528 Message: 4538

Hi Joe,

Rick N0KKZ, our Web Wunderkind and Pundit of Pix, developed the CDHK code shown on the web site.

Now, each model of the Canon is a little different, and I'm not sure if the A570is code will run on a A560. But Rick might be able to give you some pointers.

And OOOPS! I just noticed that I misspoke re the Canon model we fly: it's the A570is, not the A560.

73 de Mike W5VSI

Joe wrote:
> Hi Mike,
>
> the code on the page, do you know who made it? was it u?
>
> or who, reason asking is, the camera that is coming is one step below
> your 570 we have a 560 coming,
>
> from what it looks like the only difference is slight, like image
> stabilization the 570 has.
>
> what ya think?
>
> Joe
>
> Mike Manes wrote:
>> Hi Joe,
>>
>> EOSS has flown the A560is twice now, most recently last Saturday on EOSS-130,
>> where it worked like a charm. Rick N0KKZ has details at:
>> http://www.eoss.org/hardware/canon_a570is.htm
>>
>> 73 de Mike W5VSI
>>
>> Mark Conner wrote:
>>
>>> A few groups, including NSTAR, just started using the Canon PowerShot A560. However, any camera compatible with the CHDK firmware (http://chdk.wikia.com/) will make a good balloon camera due to the scripting abilities of the firmware (does not require hardware mods to the camera).
>>>
>>> 73 de Mark N9XTN

>>>
>>> ----- Original Message -----
>>> From: Joe <nss@...>
>>> Date: Monday, July 28, 2008 7:48 am
>>> Subject: [GPSL] Still Camera
>>> To: GPSL@yahoogroups.com
>>>
>>>
>>>> Hi Guys,
>>>>
>>>> What was the make and model of the still camera that everyone was
>>>> raving
>>>> about not too long ago?
>>>> Joe
>>>>
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>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4539. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 22:31:34 UTC
From: Joe
Topic: 4528 Message: 4539

looking forward to hearing from Rick.

Hey on a side note, did you see some of the incredible storm footage
people have made (time lapse movies) using this way cool!

Joe

Mike Manes wrote:

> Hi Joe,
>
> Rick N0KKZ, our Web Wunderkind and Pundit of Pix, developed the CDHK code
> shown on the web site.
>
> Now, each model of the Canon is a little different, and I'm not sure if
> the A570is code will run on a A560. But Rick might be able to give you
> some pointers.
>
> And OOOPS! I just noticed that I misspoke re the Canon model we fly: it's
> the A570is, not the A560.
>
> 73 de Mike W5VSI
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> Joe wrote:
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>> Hi Mike,
>>
>> the code on the page, do you know who made it? was it u?
>>
>> or who, reason asking is, the camera that is coming is one step
>> below your 570 we have a 560 coming,
>>
>> from what it looks like the only difference is slight, like image
>> stabilization the 570 has.
>>
>> what ya think?
>>
>> Joe
>>
>> Mike Manes wrote:
>>
>>> Hi Joe,
>>>
>>> EOSS has flown the A560is twice now, most recently last Saturday on
>>> EOSS-130, where it worked like a charm. Rick N0KKZ has details at:
>>> http://www.eoss.org/hardware/canon_a570is.htm

>>>
>>> 73 de Mike W5VSI
>>>
>>> Mark Conner wrote:
>>>
>>>
>>>> A few groups, including NSTAR, just started using the Canon
>>>> PowerShot A560. However, any camera compatible with the CHDK
>>>> firmware (http://chdk.wikia.com/) will make a good balloon camera
>>>> due to the scripting abilities of the firmware (does not require
>>>> hardware mods to the camera).
>>>>
>>>> 73 de Mark N9XTN
>>>>
>>>> ----- Original Message -----
>>>> From: Joe <nss@...>
>>>> Date: Monday, July 28, 2008 7:48 am
>>>> Subject: [GPSL] Still Camera
>>>> To: GPSL@yahoogroups.com
>>>>
>>>>
>>>>
>>>>> Hi Guys,
>>>>>
>>>>> What was the make and model of the still camera that everyone was
>>>>> raving about not too long ago?
>>>>> Joe
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4540. Re: [GPSL] Re: Final Freq Updates

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 22:38:46 UTC
From: Harry M
Topic: 4504 Message: 4540

Brian, I asked if .36 was going to be IGated and if it is that I prefered that freq for the same reason as Nick. The IGate'g is not that important. I also would like to beacon twice a minute. I am using a TTIII and if I slot it only allows one bcn/min.

73 Harry KC5TRB

The ark was built by amateurs.
The Titanic was built by professionals.

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
-----

----- Original Message -----
From: Nicholas Stich
To: GPSL@yahoogroups.com
Sent: Monday, July 28, 2008 5:11 PM
Subject: [GPSL] Re: Final Freq Updates

Brian it appears that only myself and Bill are using 144.99.

I had wanted to TX twice a minute but the slot of 18 would put me on
top of Bill. I want to change my second APRS to
K0NMS-1 / 144.99 /using slot 25 & 55.

If this change is going to cause anybody else trouble let me and I can
change as needed.

Cheers,
Nick
KØNMS / WPWG368

4541. Prediction Differences

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-28 23:51:29 UTC
From: Harry M
Topic: 4541 Message: 4541

I've been running BT predictions against the NSV online predictor and they never seem to jive. The latest, using MCI GFSx 114hr 1200z data, I get 8 miles difference using the same flight profile.

Anyone have any thoughts or comments?

73 Harry KC5TRB

4542. Re: [GPSL] Prediction Differences

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 00:06:46 UTC
From: wb8elk@aol.com
Topic: 4541 Message: 4542

Hi Harry,

Are you blending in Radiosonde data for the upper level winds on Balloon Track....if so, the stratospheric winds are large compared to the lower winds this time of year and there will be a difference and since the Web-based Balloon Track only uses GFS wind models, it stops at 86,000 feet or so with the wind data and extrapolates on up which works just fine most of the year, but during July and August it's better to blend in the radiosonde data with the PC version of Balloon Track.

If you're just using the GFS wind data on your Balloon Track program, then I would expect that they should be identical since they use the same algorithms....I assume you've changed the Weather Station ID to MKC or MCI (for Kansas City) on the Web-based Balloon Track?

- Bill WB8ELK

**********Get fantasy football with free live scoring. Sign up for FanHouse Fantasy Football today.
(http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020)

4543. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 00:09:08 UTC
From: wb8elk@aol.com
Topic: 4528 Message: 4543

Hi Joe,

I've flown both the A560 and the A570IS...they both work great.

- Bill WB8ELK

**********Get fantasy football with free live scoring. Sign up for
FanHouse Fantasy Football today.
(http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020)

4544. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 00:20:05 UTC
From: Joe
Topic: 4528 Message: 4544

cool got a script ya wanna share?

Joe

wb8elk@... wrote:

> Hi Joe,
>
> I've flown both the A560 and the A570IS...they both work great.
>
> - Bill WB8ELK
>
>
>
> ---
> Get fantasy football with free live scoring. Sign up for FanHouse
> Fantasy Football today
> <http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020>.
>

4545. Re: [GPSL] Prediction Differences

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 00:25:32 UTC
From: Harry M
Topic: 4541 Message: 4545

Hi Bill,

I'm WELL blended! :)

I'm using the MCI GFSx 114hr 1200z data with NO blending.
The flight profile is 900fpm/asc 1500fpm/des with an 80k burst.
BT shows landing close to I435 & I35. NSV swos it 8 mi to the ENE.

Things that make you go... Hmmmmmmm!

Harry

> Are you blending...

4546. Re: [GPSL] Prediction Differences

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 00:43:49 UTC
From: Harry M
Topic: 4541 Message: 4546

AhhhhhhhhHaaaaaaaaa!

I found the little Gremlin.
Somehow I had FLOAT selected.
Now the predictions are in order.

Duh!
No more "Ol' #7" fer me tonight!
;-)

73 Harry

> Are you blending...

4547. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 01:22:07 UTC
From: Mark Conner
Topic: 4528 Message: 4547

Here's one I made with the A560, picture taken every 6 seconds, played back at 20 fps.

http://www.youtube.com/watch?v=DneoUJu-biw

73 de Mark N9XTN

On Mon, Jul 28, 2008 at 5:31 PM, Joe <nss@...> wrote:
> looking forward to hearing from Rick.
>
> Hey on a side note, did you see some of the incredible storm footage
> people have made (time lapse movies) using this way cool!
>
> Joe
>

4548. Re: [GPSL] Prediction Differences

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 01:24:49 UTC
From: Mark Conner
Topic: 4541 Message: 4548

So that rule should be amended from "eight hours from bottle to throttle" to "eight hours from bottle to bottle (of helium)"?

73 de Mark N9XTN

On Mon, Jul 28, 2008 at 7:43 PM, Harry M <hhm_74115@...> wrote:
> AhhhhhhhhHaaaaaaaaa!
>
> I found the little Gremlin.
> Somehow I had FLOAT selected.
> Now the predictions are in order.
>
> Duh!
> No more "Ol' #7" fer me tonight!
> ;-)
>
> 73 Harry
>

4549. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 01:28:51 UTC
From: Joe
Topic: 4528 Message: 4549

Isn't that just awesome?

what did you use to complie the movie?
Joe

Mark Conner wrote:

>Here's one I made with the A560, picture taken every 6 seconds, played
>back at 20 fps.
>
>http://www.youtube.com/watch?v=DneoUJu-biw
>
>73 de Mark N9XTN
>
>On Mon, Jul 28, 2008 at 5:31 PM, Joe <nss@...> wrote:
>
>
>>looking forward to hearing from Rick.
>>
>>Hey on a side note, did you see some of the incredible storm footage
>>people have made (time lapse movies) using this way cool!
>>
>>Joe
>>
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>Yahoo! Groups Links
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4550. Re: [GPSL] Prediction Differences

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 01:35:33 UTC
From: Harry M
Topic: 4541 Message: 4550

I like it!
"8 hrs from bottle to bottle"

Shiver me timbers...Har...Har...Har...Matey!

73 Harry

> So that rule should be amended from "eight hours from bottle to
throttle" to "eight hours from bottle to bottle (of helium)"?

4551. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 01:40:57 UTC
From: Mark Conner
Topic: 4528 Message: 4551

The program is called JPGVideo. The original site doesn't seem to
have it anymore, but a Google search should give you some download
locations.

You will probably need to download some better codecs, but I forget
where I got them. The Windows Media Video version 9 codec is the one
I normally use.

73 de Mark N9XTN

On Mon, Jul 28, 2008 at 8:28 PM, Joe <nss@...> wrote:
> Isn't that just awesome?
>
> what did you use to complie the movie?
> Joe
>
> Mark Conner wrote:
>
> Here's one I made with the A560, picture taken every 6 seconds, played
> back at 20 fps.
> http://www.youtube.com/watch?v=DneoUJu-biw
> 73 de Mark N9XTN
> On Mon, Jul 28, 2008 at 5:31 PM, Joe <nss@...> wrote:
>
>
> looking forward to hearing from Rick.
> Hey on a side note, did you see some of the incredible storm footage
> people have made (time lapse movies) using this way cool!
> Joe
>
>
> ------------------------------------
> Yahoo! Groups Links
> Individual Email | Traditional
> http://docs.yahoo.com/info/terms/
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>

4552. Re: [GPSL] Still Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 01:57:00 UTC
From: Joe
Topic: 4528 Message: 4552

found a site thatstill had it peretty cool~!
Joe

Mark Conner wrote:

>The program is called JPGVideo. The original site doesn't seem to
>have it anymore, but a Google search should give you some download
>locations.
>
>You will probably need to download some better codecs, but I forget
>where I got them. The Windows Media Video version 9 codec is the one
>I normally use.
>
>73 de Mark N9XTN
>
>On Mon, Jul 28, 2008 at 8:28 PM, Joe <nss@...> wrote:
>
>
>>Isn't that just awesome?
>>
>>what did you use to complie the movie?
>>Joe
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>>Mark Conner wrote:
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>>Here's one I made with the A560, picture taken every 6 seconds, played
>>back at 20 fps.
>>http://www.youtube.com/watch?v=DneoUJu-biw
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>>On Mon, Jul 28, 2008 at 5:31 PM, Joe <nss@...> wrote:
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>>looking forward to hearing from Rick.
>>Hey on a side note, did you see some of the incredible storm footage
>>people have made (time lapse movies) using this way cool!
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>>Yahoo! Groups Links
>> Individual Email | Traditional
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4553. Vending available at GPSL Conference

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 02:48:45 UTC
From: dlkaiser23
Topic: 4553 Message: 4553

Based on the note below from Dr Geilker at William Jewell, i will be bringing a cooler and water. You may choose to bring your own pop or water to drink during the conference. Ice tea and water will be provided with lunch. The vending machines are kind of high, so take this into consideration. Thank you.

"Deb, there's a Coke machine on the (G) floor below the ChemBio Lecture Hall (WSC 107) and it has several Coca-Cola products, all in 20 oz bottles and all at $1.25 !

There are no regulations on bringing your own food into White Science Center (though there are for the Student Union -- wouldn't want to compete with the resident catering service), so
bring in your own cooler if you think it's worth the savings. (Just no alcohol in it.)

There is another vending machine with "snacks" at equally high prices for the desperate."

4554. Re: [GPSL] GPSL Presentation Schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 20:31:29 UTC
From: L. Paul Verhage
Topic: 4513 Message: 4554
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4555. Re: [GPSL] GPSL Presentation Schedule

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 20:51:35 UTC
From: Keith Kaiser
Topic: 4513 Message: 4555

The White Science building.
I will be there about 10:00am for early arrivers who want to set up displays or just hang out.... LOL

On Jul 29, 2008, at 3:31 PM, L. Paul Verhage wrote:

>
> I couldn't find the room on campus where we're meeting. I know I
> saw it some place, however.
>
> So where are we meeting on Thursday after noon?
>
> Thanks,
> Paul
>
>

4556. ORB GPSL APRS

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-29 22:16:14 UTC
From: Harry M
Topic: 4556 Message: 4556

ORB's GPSL APRS will be...
KC5TRB-11 / 144.360 (144.260 CutDown) / Non-Slotted / Every 30 sec's

73 Harry KC5TRB

4557. 2 meter Mag Mount antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 13:21:02 UTC
From: BASE
Topic: 4557 Message: 4557

Dear friends,

My 2 meter magnetic mount antenna (the little MFJ 1721) has suffered the partial disconnect of the coaxial cable from the magnetic base. It still appears to be an acceptable receiver, but I'm not certain about the durability. I may receive a new antenna from MFJ today.

In the meantime, does anyone that is going to GPSL have an extra 2 meter mag mount antenna that I can borrow for Saturday? I can use either a PL-259 or a BNC connector.

Thanks in advance,
Howard

4558. Re: [GPSL] 2 meter Mag Mount antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 14:06:20 UTC
From: Keith Kaiser
Topic: 4557 Message: 4558

I'll bring one.

On Jul 30, 2008, at 8:21 AM, BASE wrote:

> Dear friends,
>
> My 2 meter magnetic mount antenna (the little MFJ 1721) has suffered
> the partial disconnect of the coaxial cable from the magnetic base.
> It still appears to be an acceptable receiver, but I'm not certain
> about the durability. I may receive a new antenna from MFJ today.
>
> In the meantime, does anyone that is going to GPSL have an extra 2
> meter mag mount antenna that I can borrow for Saturday? I can use
> either a PL-259 or a BNC connector.
>
> Thanks in advance,
> Howard
>
>
>

4559. Re: 2 meter Mag Mount antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 14:13:04 UTC
From: Roger Hammond
Topic: 4557 Message: 4559

Howard,

I have a spare dual band 2m/70cm that I'll throw in. You're welcome to use it.

Rog KC0MWM
CNNSP
--- In GPSL@yahoogroups.com, BASE <basedepauw@...> wrote:
>
> Dear friends,
>
> My 2 meter magnetic mount antenna (the little MFJ 1721) has suffered the partial disconnect of the coaxial cable from the magnetic base. It still appears to be an acceptable receiver, but I'm not certain about the durability. I may receive a new antenna from MFJ today.
>
> In the meantime, does anyone that is going to GPSL have an extra 2 meter mag mount antenna that I can borrow for Saturday? I can use either a PL-259 or a BNC connector.
>
> Thanks in advance,
> Howard
>

4560. Thu / Fri evening

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 14:24:58 UTC
From: Roger Hammond
Topic: 4560 Message: 4560

Are there any plans for the groups to gather for a meal on Thursday or Friday evening as we have in previous years?

Rog KC0MWM
CNNSP

4561. Re: [GPSL] Thu / Fri evening

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 14:36:16 UTC
From: Keith Kaiser
Topic: 4560 Message: 4561

We thought about making formal plans for both nights and elected to give people a chance to have some time to themselves or to arrange impromptu outings if they wish. Thursday evening is of course the observatory tour as well so we didn't want to infringe on that. Saturday is the victory dinner at Uno's and that should be lots of fun as usual.

There are a lot of restaurants in the area, so putting together a group and deciding where to go should be an easy deal. Additionally KC has lots of things to see and do so if individuals or groups want to get out and see it not scheduling too many GPSL events supports this too.

Great question!

KC or Burst!
-- Keith

On Jul 30, 2008, at 9:24 AM, Roger Hammond wrote:

> Are there any plans for the groups to gather for a meal on Thursday or
> Friday evening as we have in previous years?
>
> Rog KC0MWM
> CNNSP
>
>
>

4562. Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 18:33:06 UTC
From: Earl Foster
Topic: 4560 Message: 4562

Is there such a thing as liability insurance against personal injury and property damage for this type of activity? I have been asked that question on several occasions and I usually answer "no" but I have been asked to assist a local university with their first launch and they are asking the same question. The school is skidish about getting students involved due to some events that occurred in the past and before I tell them "no" I thought I would check to see how others handle that question.

Good luck with the GPSL, wish my payload would have been ready. Maybe next year.

73s
Earl - KE5HDN
www.hapb.net

_____
Keep your kids safer online with Windows Live Family Safety.
http://www.windowslive.com/family_safety/overview.html?ocid=TXT_TAGLM_WL_family_safety_072008

4563. Re: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 18:34:59 UTC
From: Joe
Topic: 4560 Message: 4563

hit the send button too soon?

Earl Foster wrote:

4564. RE: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 18:39:25 UTC
From: Earl Foster
Topic: 4560 Message: 4564

I have no idea what just happen. There was an email attached, it shows up in my sent directory and on the forum. Lets try again.

Is there such a thing as liability insurance against personal injury and property damage for this type of activity? I have been asked that question on several occasions and I usually answer "no" but I have been asked to assist a local university with their first launch and they are asking the same question. The school is skidish about getting students involved due to some events that occurred in the past and before I tell them "no" I thought I would check to see how others handle that question. Good luck with the GPSL, wish my payload would have been ready. Maybe next year. 73sEarl - KE5HDNwww.hapb.net

To: GPSL@yahoogroups.comFrom: nss@...: Wed, 30 Jul 2008 13:34:59 -0500Subject: Re: [GPSL] Liability

hit the send button too soon?Earl Foster wrote:

_____
Stay in touch when you're away with Windows Live Messenger.
http://www.windowslive.com/messenger/overview.html?ocid=TXT_TAGLM_WL_messenger2_072008

4565. Re: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 18:45:33 UTC
From: Joe
Topic: 4560 Message: 4565

If you find any that don't cost more than a brand new Icom 7800 let us
all know about it.

he he he

Joe WB9SBD
Near Space Sciences

Earl Foster wrote:

> I have no idea what just happen. There was an email attached, it
> shows up in my sent directory and on the forum. Lets try again.
>
> Is there such a thing as liability insurance against personal injury
> and property damage for this type of activity? I have been asked that
> question on several occasions and I usually answer "no" but I have
> been asked to assist a local university with their first launch and
> they are asking the same question. The school is skidish about
> getting students involved due to some events that occurred in the past
> and before I tell them "no" I thought I would check to see how others
> handle that question.
>
> Good luck with the GPSL, wish my payload would have been ready. Maybe
> next year.
>
> 73s
> Earl - KE5HDN
> www.hapb.net <http://www.hapb.net/>
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> ---
>
> To: GPSL@yahoogroups.com
> From: nss@...
> Date: Wed, 30 Jul 2008 13:34:59 -0500
> Subject: Re: [GPSL] Liability
>
>
> hit the send button too soon?
>
> Earl Foster wrote:
>
>

>
> ---
> Stay in touch when you're away with Windows Live Messenger. IM anytime
> you're online.
> <http://www.windowslive.com/messenger/overview.html?ocid=TXT_TAGLM_WL_messenger2_072008>
>

4566. RE: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 19:41:38 UTC
From: plilja@cfu.net
Topic: 4560 Message: 4566

I have a $1 million liability rider attached to my homeowner's policy that will cover any of my family's activities that causes harm to others. It costs about $225 / year. This insurance covers my kids driving their cars, my high power rocket activity, my boat...anything I do that causes harm to someone else (so long as it's a not-for-hire activity). Check with you insurance agent.

I'm not sure how your balloon flying with a university would affect the coverage.

Pete

Quoting Earl Foster <ebf306@...>:

> Is there such a thing as liability insurance against personal injury
> and property damage for this type of activity? I have been asked
> that question on several occasions and I usually answer "no" but I
> have been asked to assist a local university with their first launch
> and they are asking the same question.

4567. Re: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 19:44:10 UTC
From: Michael Gray
Topic: 4560 Message: 4567

For personal liability you can add "General Umbrella Coverage" to your home owners policy. For about $250 / year you can get $2.5M coverage for stuff like ballooning or being on the board of your HOA. You'll probably still get sued, but the insurance company is there to backstop the claims.

If it is part of a school or university flight, they generally work out the coverage. I know for our Space Grant flights in Arizona, the state puts up something like a $200-250M policy for any mishaps. You as a balloon club member may still get litigated, but the general liability policy would cover you.

Welcome to Liberal Lawyer America!

Joe wrote:
> If you find any that don't cost more than a brand new Icom 7800 let us
> all know about it.
>
> he he he
>
> Joe WB9SBD
> Near Space Sciences
>
> Earl Foster wrote:
>> I have no idea what just happen. There was an email attached, it
>> shows up in my sent directory and on the forum. Lets try again.
>>
>> Is there such a thing as liability insurance against personal injury
>> and property damage for this type of activity? I have been asked that
>> question on several occasions and I usually answer "no" but I have
>> been asked to assist a local university with their first launch and
>> they are asking the same question. The school is skidish about
>> getting students involved due to some events that occurred in the past
>> and before I tell them "no" I thought I would check to see how others
>> handle that question.
>>
>> Good luck with the GPSL, wish my payload would have been ready. Maybe
>> next year.
>>
>> 73s
>> Earl - KE5HDN
>> _www.hapb.net_ <http://www.hapb.net/>
>>
>>

4568. HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 21:42:49 UTC
From: Nick Hanks
Topic: 4568 Message: 4568

Some of the EOSS vehicles will be running HF on the trip from Denver to Liberty. Might try to give us a call if you□re HF equipped. How about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the hour? Call for any GPSL stations on frequency?

Nick

NØLP

EOSS GPSL Coordinator

4569. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:07:46 UTC
From: Joe
Topic: 4568 Message: 4569

what times are ya going to be on the road?

Joe

Nick Hanks wrote:

> Some of the EOSS vehicles will be running HF on the trip from Denver
> to Liberty. Might try to give us a call if you're HF equipped. How
> about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
> hour? Call for any GPSL stations on frequency?
>
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>
> Nick
>
> N?LP
>
> EOSS GPSL Coordinator
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>

4570. RE: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:15:41 UTC
From: Nick Hanks
Topic: 4568 Message: 4570

08:30 AM Liberty time until about 7:00 PM Liberty time.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Wednesday, July 30, 2008 16:08
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] HF Frequencies

what times are ya going to be on the road?

Joe

Nick Hanks wrote:

Some of the EOSS vehicles will be running HF on the trip from Denver to Liberty. Might try to give us a call if you□re HF equipped. How about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the hour? Call for any GPSL stations on frequency?

Nick

NØLP

EOSS GPSL Coordinator

4571. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:24:43 UTC
From: Joe
Topic: 4568 Message: 4571

what day?

Nick Hanks wrote:

> 08:30 AM Liberty time until about 7:00 PM Liberty time.
>
>
>
> Nick
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> ---
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
> Sent: Wednesday, July 30, 2008 16:08
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] HF Frequencies
>
>
>
> what times are ya going to be on the road?
>
> Joe
>
> Nick Hanks wrote:
>
>> Some of the EOSS vehicles will be running HF on the trip from Denver
>> to Liberty. Might try to give us a call if you're HF equipped. How
>> about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
>> hour? Call for any GPSL stations on frequency?
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>> Nick
>>
>> N?LP
>>
>> EOSS GPSL Coordinator
>>
>

4572. RE: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:29:28 UTC
From: Nick Hanks
Topic: 4568 Message: 4572

Thursday is travel day for us.

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
Sent: Wednesday, July 30, 2008 16:25
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] HF Frequencies

what day?

Nick Hanks wrote:

08:30 AM Liberty time until about 7:00 PM Liberty time.

Nick

From: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com [mailto:GPSL@
<mailto:GPSL@yahoogroups.com> yahoogroups.com] On Behalf Of Joe
Sent: Wednesday, July 30, 2008 16:08
To: GPSL@yahoogroups. <mailto:GPSL@yahoogroups.com> com
Subject: Re: [GPSL] HF Frequencies

what times are ya going to be on the road?

Joe

Nick Hanks wrote:

Some of the EOSS vehicles will be running HF on the trip from Denver to Liberty. Might try to give us a call if you□re HF equipped. How about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the hour? Call for any GPSL stations on frequency?

Nick

NØLP

EOSS GPSL Coordinator

4573. APRS Object for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:37:47 UTC
From: Keith Kaiser
Topic: 4573 Message: 4573

I created an object called GPSL at the location of GPSL, William Jewell College.

Enjoy.

4574. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:39:19 UTC
From: Joe
Topic: 4568 Message: 4574

I'll be looking fior ya on 20, during the day.
Joe

Nick Hanks wrote:

> Thursday is travel day for us.
>
>
>
>
>
> Nick
>
>
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>
>
> ---
>
> From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Joe
> Sent: Wednesday, July 30, 2008 16:25
> To: GPSL@yahoogroups.com
> Subject: Re: [GPSL] HF Frequencies
>
>
>
> what day?
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> Nick Hanks wrote:
>
>> 08:30 AM Liberty time until about 7:00 PM Liberty time.
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>> Nick
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>> ---
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>> From: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] On Behalf

>> Of Joe
>> Sent: Wednesday, July 30, 2008 16:08
>> To: GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>> Subject: Re: [GPSL] HF Frequencies
>>
>>
>>
>> what times are ya going to be on the road?
>>
>> Joe
>>
>> Nick Hanks wrote:
>>
>>> Some of the EOSS vehicles will be running HF on the trip from Denver
>>> to Liberty. Might try to give us a call if you're HF equipped. How
>>> about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
>>> hour? Call for any GPSL stations on frequency?
>>>
>>>
>>>
>>>
>>>
>>> Nick
>>>
>>> N?LP
>>>
>>> EOSS GPSL Coordinator
>>>
>

4575. Re: [GPSL] APRS Object for GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 22:53:42 UTC
From: Harry M
Topic: 4573 Message: 4575

Looking good Keith!

73 Harry KC5TRB

4576. Re: Thu / Fri evening

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 23:04:29 UTC
From: Nicholas Stich
Topic: 4560 Message: 4576

--- In GPSL@yahoogroups.com, "Roger Hammond" <rahammond@...> wrote:
>
> Are there any plans for the groups to gather for a meal on Thursday
or
> Friday evening as we have in previous years?
>
> Rog KC0MWM
> CNNSP
>
Roger, I would very much like to met up with you, your wife and
anybody else that is available for dinner on Friday after the
conference is finished. I will be attending the conference.

I was looking forward to keeping the tradition of the Friday night
meal alive.

Best Regards,
Nick Stich
KØNMS / WPWG368

4577. Re: [GPSL] Re: Thu / Fri evening

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-30 23:20:54 UTC
From: Roger Hammond
Topic: 4560 Message: 4577
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4578. Map/Directions to UNO Restaurant

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-31 00:13:49 UTC
From: dlkaiser23
Topic: 4578 Message: 4578

Here is a link to the maps/directions to Uno Restaurant for your reference for dinner Saturday night.:

http://www.unos.com/location.html

Just select the location for Liberty, MO on Barry Road.

See you soon!

73's
Deb Kaiser, W0DLK

4579. RE: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-31 00:58:27 UTC
From: P. Suryono Adisoemarta
Topic: 4560 Message: 4579

When I was the faculty advisor for ARSAT (Amateur Radio Society at Texas Tech U), the group was covered under the umbrella of student activity insurance policy (double check the requierements, i.e. filing the activity in advance, show the predicted travel, submit copies of student's driver's license etc). Costs nothing as the group policy already purchased on student activity budget.

Hope that helps,

73 de Paulus N5SNN / YD0NXX

--- On Wed, 7/30/08, plilja@... <plilja@...> wrote:

> I have a $1 million liability rider attached to my
> homeowner's policy
> that will cover any of my family's activities that
> causes harm to
> others. It costs about $225 / year. This insurance covers
> my kids
> driving their cars, my high power rocket activity, my
> boat...anything
> I do that causes harm to someone else (so long as it's
> a not-for-hire
> activity). Check with you insurance agent.
>
> I'm not sure how your balloon flying with a university
> would affect
> the coverage.
>
> Pete
>
>
> Quoting Earl Foster <ebf306@...>:
>
>
> > Is there such a thing as liability insurance against
> personal injury
> > and property damage for this type of activity? I
> have been asked
> > that question on several occasions and I usually
> answer "no" but I
> > have been asked to assist a local university with
> their first launch
> > and they are asking the same question.
>
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>

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>
> Yahoo! Groups Links
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4580. Facilities @ GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-31 16:00:14 UTC
From: Keith Kaiser
Topic: 4580 Message: 4580

Parking;
Parking will have to be in the lower parking lot immediately across the street from the White Science Center, this makes it about a 100 yard walk to the building. Sorry about that guys the upper lots are for faculty and as of now I have not been successful at getting us permission to use them. Lets all take a way-back look at our college days and remember that walking on a campus is the norm... LOL

Friday Conference;
The conference all day Friday is in Room 107 the Francis Lecture Hall. I'm sitting there now and the first thing I notice is that there are very few electrical outlets. I'll bring all the extension cords and power cords I have but if you have one you like be sure to bring it too.

Getting Here;
There is a detour if you are coming off of I-35 that actually makes the trip to WJC easier. Take the detour but when it heads you back toward town, ignore it and stay on the road it'll take you right to the college. You turn left into the college, you will see the White Science Building on your left, parking is immediately across the street.

KC or Burst!

4581. HF Frequency

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-31 17:13:25 UTC
From: Nick Hanks
Topic: 4581 Message: 4581

The EOSS convoy is approaching Salina, KS and is listening on 7.180 MHz at 15 min after and 45 mn after the hour. Call for GPSL. We've add a couple of QSO's and looking for others.

4582. RE: [GPSL] Facilities @ GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-07-31 23:42:42 UTC
From: Nick Hanks
Topic: 4580 Message: 4582

Thanks Keith. Useful data.

The EOSS group is checked-in.

CU in the AM.

Nick

To: GPSL@yahoogroups.com
From: wa0tjt@...
Date: Thu, 31 Jul 2008 11:00:14 -0500
Subject: [GPSL] Facilities @ GPSL

Parking;

Parking will have to be in the lower parking lot immediately across

the street from the White Science Center, this makes it about a 100

yard walk to the building. Sorry about that guys the upper lots are

for faculty and as of now I have not been successful at getting us

permission to use them. Lets all take a way-back look at our college

days and remember that walking on a campus is the norm... LOL

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The conference all day Friday is in Room 107 the Francis Lecture Hall.

I'm sitting there now and the first thing I notice is that there are

very few electrical outlets. I'll bring all the extension cords and

power cords I have but if you have one you like be sure to bring it too.

Getting Here;

There is a detour if you are coming off of I-35 that actually makes

the trip to WJC easier. Take the detour but when it heads you back

toward town, ignore it and stay on the road it'll take you right to

the college. You turn left into the college, you will see the White

Science Building on your left, parking is immediately across the street.

KC or Burst!

4583. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 03:52:36 UTC
From: Mike Manes
Topic: 4568 Message: 4583

Today, 7/31/08 - I worked 'em on 75, 40 and 20 and also worked Ralph W0RPK
from my home QTH. W9CN, WA0GEH and KCOUUo were /M today.
73 de Mike W5VSI

Joe wrote:
> what day?
>
>
> Nick Hanks wrote:
>>
>> 08:30 AM Liberty time until about 7:00 PM Liberty time.
>>
>>
>>
>> Nick
>>
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>> ---
>>
>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>> Of *Joe
>> *Sent:* Wednesday, July 30, 2008 16:08
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] HF Frequencies
>>
>>
>>
>> what times are ya going to be on the road?
>>
>> Joe
>>
>> Nick Hanks wrote:
>>
>>> Some of the EOSS vehicles will be running HF on the trip from Denver
>>> to Liberty. Might try to give us a call if you're HF equipped. How
>>> about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
>>> hour? Call for any GPSL stations on frequency?
>>>
>>>
>>>
>>>
>>>

>>> Nick
>>>
>>> NØLP
>>>
>>> EOSS GPSL Coordinator
>>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4584. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 03:54:04 UTC
From: Mike Manes
Topic: 4568 Message: 4584

Best props to Denver were on 40m.

Joe wrote:
> I'll be looking fior ya on 20, during the day.
> Joe
>
> Nick Hanks wrote:
>>
>> Thursday is travel day for us.
>>
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>> Nick
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>> ---
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>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>> Of *Joe
>> *Sent:* Wednesday, July 30, 2008 16:25
>> *To:* GPSL@yahoogroups.com
>> *Subject:* Re: [GPSL] HF Frequencies
>>
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>>
>> what day?
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>> Nick Hanks wrote:
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>>> Nick
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>>> ---
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>>> *From:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>> [mailto:GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>] *On
>>> Behalf Of *Joe
>>> *Sent:* Wednesday, July 30, 2008 16:08
>>> *To:* GPSL@yahoogroups.com <mailto:GPSL@yahoogroups.com>
>>> *Subject:* Re: [GPSL] HF Frequencies
>>>
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>>> Joe
>>>
>>> Nick Hanks wrote:
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>>>> about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
>>>> hour? Call for any GPSL stations on frequency?
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>>>>
>>>>
>>>> Nick
>>>>
>>>> NØLP
>>>>
>>>> EOSS GPSL Coordinator
>>>>
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4585. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 02:58:16 UTC
From: Joe
Topic: 4568 Message: 4585

I heard then several times on 40 today and called them but they never
came back to me,, oh well,

joe

Mike Manes wrote:

>Today, 7/31/08 - I worked 'em on 75, 40 and 20 and also worked Ralph W0RPK
>from my home QTH. W9CN, WA0GEH and KCOUUo were /M today.
>73 de Mike W5VSI
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>Joe wrote:
>
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>>what day?
>>
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>>Nick Hanks wrote:
>>
>>
>>>08:30 AM Liberty time until about 7:00 PM Liberty time.
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>>>Nick
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>>>*From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>>>Of *Joe
>>>*Sent:* Wednesday, July 30, 2008 16:08
>>>*To:* GPSL@yahoogroups.com
>>>*Subject:* Re: [GPSL] HF Frequencies
>>>
>>>
>>>
>>>what times are ya going to be on the road?
>>>
>>>Joe
>>>
>>>Nick Hanks wrote:
>>>

>>>
>>>
>>>>Some of the EOSS vehicles will be running HF on the trip from Denver
>>>>to Liberty. Might try to give us a call if you?re HF equipped. How
>>>>about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
>>>>hour? Call for any GPSL stations on frequency?
>>>>
>>>>
>>>>
>>>>
>>>>
>>>>Nick
>>>>
>>>>N?LP
>>>>
>>>>EOSS GPSL Coordinator
>>>>
>>>>
>>>>
>
>
>

4586. Re: [GPSL] Liability

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 04:02:41 UTC
From: Mike Manes
Topic: 4560 Message: 4586

In many states, including Colorado, members of charitable non-profits, such as EOSS, enjoy automatic liability limitation, exclusive of gross negligence or illegal activity. EOSS has tried in vain to get liability coverage for its ARHAB operations - well, not ENTIRELY in vain - Lloyd's bid $1M / yr premiums. Seems the actuarial data on unmanned ballooning is a bit sparse.

73 de Mike W5VSI, EOSS

P. Suryono Adisoemarta wrote:
> When I was the faculty advisor for ARSAT (Amateur Radio Society at Texas Tech U), the group was covered under the umbrella of student activity insurance policy (double check the requierements, i.e. filing the activity in advance, show the predicted travel, submit copies of student's driver's license etc). Costs nothing as the group policy already purchased on student activity budget.
>
> Hope that helps,
>
> 73 de Paulus N5SNN / YD0NXX
>
>
>
> --- On Wed, 7/30/08, plilja@... <plilja@...> wrote:
>
>> I have a $1 million liability rider attached to my
>> homeowner's policy
>> that will cover any of my family's activities that
>> causes harm to
>> others. It costs about $225 / year. This insurance covers
>> my kids
>> driving their cars, my high power rocket activity, my
>> boat...anything
>> I do that causes harm to someone else (so long as it's
>> a not-for-hire
>> activity). Check with you insurance agent.
>>
>> I'm not sure how your balloon flying with a university
>> would affect
>> the coverage.
>>
>> Pete
>>
>>
>> Quoting Earl Foster <ebf306@...>:
>>
>>

>>> Is there such a thing as liability insurance against
>> personal injury
>>> and property damage for this type of activity? I
>> have been asked
>>> that question on several occasions and I usually
>> answer "no" but I
>>> have been asked to assist a local university with
>> their first launch
>>> and they are asking the same question.
>>
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4587. Re: [GPSL] 2 meter Mag Mount antenna

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 04:30:42 UTC
From: Mike Manes
Topic: 4557 Message: 4587

MFJ uses thoroughly rotten coax for that mag mount. The coax on mine shorted thru a crack in the dielectric. Recommend replacing the coax with something more robust, like RG-142, which is bulletproof! And suggest placing a 1/8" ty-rap around the coax entry point to the mag mount base. So, wotcha expect for a $15 dual band mag mount, eh?

73 de Mike W5VSI

Keith Kaiser wrote:
> I'll bring one.
>
>
> On Jul 30, 2008, at 8:21 AM, BASE wrote:
>
>> Dear friends,
>>
>> My 2 meter magnetic mount antenna (the little MFJ 1721) has suffered
>> the partial disconnect of the coaxial cable from the magnetic base.
>> It still appears to be an acceptable receiver, but I'm not certain
>> about the durability. I may receive a new antenna from MFJ today.
>>
>> In the meantime, does anyone that is going to GPSL have an extra 2
>> meter mag mount antenna that I can borrow for Saturday? I can use
>> either a PL-259 or a BNC connector.
>>
>> Thanks in advance,
>> Howard
>>
>>
>>
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4588. Re: [GPSL] HF Frequencies

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 05:40:17 UTC
From: Mike Manes
Topic: 4568 Message: 4588

They weren't hearing the weaker ones, Joe. "Life's too short for QRP" :=}.
73 de Mike W5VSI

Joe wrote:
> I heard then several times on 40 today and called them but they never
> came back to me,, oh well,
>
> joe
>
> Mike Manes wrote:
>> Today, 7/31/08 - I worked 'em on 75, 40 and 20 and also worked Ralph W0RPK
>> from my home QTH. W9CN, WA0GEH and KCOUUo were /M today.
>> 73 de Mike W5VSI
>>
>> Joe wrote:
>>
>>> what day?
>>>
>>>
>>> Nick Hanks wrote:
>>>
>>>> 08:30 AM Liberty time until about 7:00 PM Liberty time.
>>>>
>>>>
>>>>
>>>> Nick
>>>>
>>>>
>>>>
>>>>
>>>>
>>>> ---
>>>>
>>>> *From:* GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] *On Behalf
>>>> Of *Joe
>>>> *Sent:* Wednesday, July 30, 2008 16:08
>>>> *To:* GPSL@yahoogroups.com
>>>> *Subject:* Re: [GPSL] HF Frequencies
>>>>
>>>>
>>>>
>>>> what times are ya going to be on the road?
>>>>
>>>> Joe
>>>>

>>>> Nick Hanks wrote:
>>>>
>>>>
>>>>> Some of the EOSS vehicles will be running HF on the trip from Denver
>>>>> to Liberty. Might try to give us a call if you’re HF equipped. How
>>>>> about 7.180 or 7.280 and 14.280 MHz on 15 after and 45 after the
>>>>> hour? Call for any GPSL stations on frequency?
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>>>>>
>>>>> Nick
>>>>>
>>>>> NØLP
>>>>>
>>>>> EOSS GPSL Coordinator
>>>>>
>>>>>
>>
>>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4589. Good luck with the flights / w3BalTrak problem?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 12:06:43 UTC
From: Mark Conner
Topic: 4589 Message: 4589

It's probably just as well I didn't plan to go this year, as I'm starting to get a cold that if it's as bad as my wife's will be pretty nasty by tomorrow. Good luck to all the crews. I'll probably switch my home rig to one of the non-.39 APRS frequencies for additional IGate support.

I tried to run the online predictions at nearspaceventures.com and was unable to get a Google map output. The launch coordinates for the predefined sites are positive longitude I noticed - even after fixing that, I still don't get any display.

73 de Mark N9XTN

4590. Launch / Recovery Team Phone #'s

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-01 21:16:14 UTC
From: dlkaiser23
Topic: 4590 Message: 4590

Nearsys - 785-230-6866 or 785-230-7902

Taylor U : 260-241-0409 or 765-618-9151

EOSS: 303-378-3900 or 303-359-5660

NSV: 816-590-3154 or 816-468-7212

ORB: 918-200-2313 or 479-644-9992

BASE: 765-721-4179 or 812-870-2240

WB8ELK: 256-656-7189 or 205-410-7756

Nick: 913-485-7049
****

73's

4591. WB8ELK frequency changes for GPSL balloon flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-02 05:39:36 UTC
From: wb8elk@aol.com
Topic: 4591 Message: 4591

ATV on 439.25 will not fly....however, EOSS will be flying ATV on 426.25 MHz horizontal polarization....you can tell when the balloon is coming into range when you hear their packets on 144.34.

I'll be flying a simplex repeater on 147.525 MHz which is just below the crossband repeater on the EOSS balloon on 147.555.

I'll also have a 433.92 MHz AM RTTY transmitter and the HF transmitter on 28.172 MHz.

WB8ELK-12 APRS will be on 144.34 MHz and WB8ELK-11 on 144.39.

Also new on the list is a 147.435 MHz Audio CW FM beacon from the ORB balloon - KC5TRB.

- Bill WB8ELK

4592. Re: [GPSL] WB8ELK frequency changes for GPSL balloon flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-02 13:08:12 UTC
From: Mike Manes
Topic: 4591 Message: 4592

Hi Bill,
Sri ur ATV didn't work out. I'm tracking AE0SS-11 as we speak on APRS.fi
GL on the flight!
73 de Mike W5VSI

On Fri, Aug 1, 2008 at 11:39 PM, <wb8elk@...> wrote:
> ATV on 439.25 will not fly....however, EOSS will be flying ATV on 426.25 MHz
> horizontal polarization....you can tell when the balloon is coming into
> range when you hear their packets on 144.34.
>
> I'll be flying a simplex repeater on 147.525 MHz which is just below the
> crossband repeater on the EOSS balloon on 147.555.
>
> I'll also have a 433.92 MHz AM RTTY transmitter and the HF transmitter on
> 28.172 MHz.
>
> WB8ELK-12 APRS will be on 144.34 MHz and WB8ELK-11 on 144.39.
>
> Also new on the list is a 147.435 MHz Audio CW FM beacon from the ORB
> balloon - KC5TRB.
>
> - Bill WB8ELK
> _____
> It's time to go back to school! Get the latest trends and gadgets that make
> the grade on AOL Shopping.
>

4593. What's up with KB9ZNZ-11?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-02 15:22:31 UTC
From: Mark Conner
Topic: 4593 Message: 4593

Saw it 'land' near Odessa after a flight to only 30,000 ft, but now is airborne again and moving southeast.

73 de Mark N9XTN

4594. Re: [GPSL] What's up with KB9ZNZ-11?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-02 15:33:54 UTC
From: plilja@cfu.net
Topic: 4593 Message: 4594

Wow, that's cool. I too am baffled by the up and down flight.

Looks like urban recovery for a lot of the flights. This is
fascinating watching this unfold on aprs.fi.

Next year I gotta go!

Pete
KCØGPB

Quoting Mark Conner <mconner1@...>:

> Saw it 'land' near Odessa after a flight to only 30,000 ft, but now is
> airborne again and moving southeast.
>
> 73 de Mark N9XTN
>

4595. GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-03 00:26:14 UTC
From: L. Paul Verhage
Topic: 4595 Message: 4595
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4596. Flight Data

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-03 00:44:25 UTC
From: L. Paul Verhage
Topic: 4596 Message: 4596
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4597. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-03 01:31:18 UTC
From: Mark Conner
Topic: 4595 Message: 4597

Paul,

Congrats on your marriage and your acceptance for a PhD program. KU
has flown at least a couple of flights, but I think it's been 2-3
years since they've done it (flew as K0KU-* I believe).

NSTAR is planning a flight somewhere around the 3rd or 4th weekend in
September. If you're interested, come on up and we'll do a pair of
flights from up here.

Looking forward to GPSL 2009. Sorry I couldn't make it for 2008 but
just too much going on in July this year.

73 de Mark N9XTN

On Sat, Aug 2, 2008 at 7:26 PM, L. Paul Verhage <nearsys@...> wrote:
> Well, it was a great time. Rachel and I had to leave right after lunch, so
> we're mising the last dinner. So what about GPSL 2009?
>
> Well first, the announcements I made at the conference were that Rachel and
> I were married in June and that she and I are attending school in Kansas.
> So for the next three years we'll be based out of Topeka. I'm planning to
> add near space and BalloonSats to my PhD program. I'll start meeting with
> the local astronomy and radio clubs this month to get them involved.
>
> So I'd like to host GPSL 2009 at KU in Lawrence. I'll let everyone know
> within 30 days if I can arrange this. If I can't, then Jerome from North
> Texas discussed hosting GPSL. Jeroome, do you still this is possible?
>
> Thanks everyone, see you next year. I'll start flying with the local
> groups.
>
> Paul

4598. Is Wayne Your Friend? Please Respond!!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-03 03:59:55 UTC
From: Wayne
Topic: 4598 Message: 4598

Friendship Request

(http://www.myyearbook.com/)

Block myYearbook Email (http://www.myyearbook.com/?mysession=dW5zdWJzY3JpYmVfbm9ubWVtYmVydW5zdWJzY3JpYmUmZW09Z3BzbEB5YWhvb2dyb3Vwcy5jb20mdHQ9b3RoZXJfaW52aXRlJnRlPXVuc3Vic2NyaWJlJmVtYz03MDcwZDk2OGU5OTM1YjIwNWZiYTNhNTc5ODEzZjJhMg==) | Mark Spam (http://www.myyearbook.com/?mysession=dW5zdWJzY3JpYmVfbm9ubWVtYmVydW5zdWJzY3JpYmUmZW09Z3BzbEB5YWhvb2dyb3Vwcy5jb20mdHQ9b3RoZXJfaW52aXRlJnRlPXVuc3Vic2NyaWJlJmVtYz03MDcwZDk2OGU5OTM1YjIwNWZiYTNhNTc5ODEzZjJhMg==)

Wayne has added you as a friend

Is Wayne your friend?

(http://www.myyearbook.com/?mysession=cmVnaXN0cmF0aW9uX3JlZ2lzdHJhdGlvbiZmcm9tPWVtYWlsJnVpZD0xMTA3NDg2MyZoYXNoPWUzNGQ3ZjI1YWQ0YzA5OWZmNGYwMGY1YjBmMDc4N2UxJnR0PW90aGVyX2ludml0ZSZ0ZT15ZXM=)

(http://www.myyearbook.com/?mysession=cmVnaXN0cmF0aW9uX3JlZ2lzdHJhdGlvbiZmcm9tPWVtYWlsJnVpZD0xMTA3NDg2MyZoYXNoPWUzNGQ3ZjI1YWQ0YzA5OWZmNGYwMGY1YjBmMDc4N2UxJmRlY2xpbmU9dHJ1ZSZ0dD1vdGhlcl9pbnZpdGUmdGU9bm8=)

Please respond or Wayne will think you said no :(

Click Here (http://www.myyearbook.com/?mysession=dW5zdWJzY3JpYmVfbm9ubWVtYmVydW5zdWJzY3JpYmUmZW09Z3BzbEB5YWhvb2dyb3Vwcy5jb20mdHQ9b3RoZXJfaW52aXRlJnRlPXVuc3Vic2NyaWJlJmVtYz03MDcwZDk2OGU5OTM1YjIwNWZiYTNhNTc5ODEzZjJhMg==) to block all emails from myYearbook, 280 Union Square Dr., New Hope, PA 18938

4599. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-03 17:37:46 UTC
From: L. Paul Verhage
Topic: 4595 Message: 4599
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4600. [Fwd: [KNSP] NTEXBP Next Launch]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 00:49:41 UTC
From: Mike Manes
Topic: 4600 Message: 4600

```
-------- Original Message --------
Subject: [KNSP] NTEXBP Next Launch
Date: Fri, 01 Aug 2008 08:34:05 -0500
From: Larry Westmoreland <jlwesty@sbcglobal.net>
To: KNSP@yahoogroups.com

With respect and kind regards...

AMATEUR RADIO GROUP TO FLY MEMORIAL BALLOON FLIGHT FROM HILLSBORO AIRPORT
```

A Memorial Flight for club member John Newman, Cindy Newman, son JW Newman has been scheduled. John was our pilot and flew the mission□s chase plane. It also served as our repeater for recovery ground operations. The Newman□s passed away in a tragic plane crash a few weeks ago.

The Newman□s mission held by the North Texas Balloon Project (NTEXBP) is planned for launch about 8:30 am on *August 9, 2008* from the municipal airport in Hillsboro, Texas, just south of Fort Worth and Dallas. Two payload packages containing sensors and amateur radios will be carried to nearly 100,000 feet in about 90 minutes by a Helium balloon and return via parachute in about 50 minutes. Mobile recovery teams will use position reports from the onboard GPS and APRS transmitter on *144.390 MHz* and radio direction finding techniques to recover the payloads.

```
Pre-launch activities will begin about 7:00 am with the HF Launch Net on
*7260 +/- 5
kHz, LSB* beginning around 8:00 am. A cross band repeater will be
activated soon after
launch. Uplink is *445.800 MHz* and downlink is *147.560 MHz*.
Handheld VHF radios
and scanners can receive the downlink easily. At the peak altitude ham
radio operators
from Texas, Oklahoma, Arkansas, Louisiana, and Kansas can contact each
other using
the cross band repeater.

The radios used normally have a range of about 25 miles, but that range
will be extended
to about 500 miles at the peak altitude. At the peak altitude, the
curvature of the earth is visible. Digital video is recorded for later
playback. APRS packets transmit the balloon's location about once a minute.
```

NTEXBP's Tommy Davis said, "This is being done because the Newman□s are in our thoughts and they meant so much to our community.In past

operations we did the launches for fun and the enjoyment of flight. It involves many different facets of amateur radio and thus a project that many types of amateur radio operators can enjoy together.☐ There is also an educational component utilized by scouting groups, because it involves orienteering and can be counted toward several different merit badges, as well as by teachers for science experiments. Davis said, ☐Area scout troops are invited along with all that are interested.☐

In the event of unfavorable weather or poor jet stream conditions, the launch will occur at a later date. Be sure to check www.ntexbp.org <http://www.ntexbp.org/> or www.w5sjz.net <http://www.w5sjz.net/> and other Ham Radio forums and news sources for later information.

The public is invited to come out to the Hillsboro Municipal Airport, located at Exit 3 on
Interstate Highway 35W, to watch the launch.

North Texas Balloon Project is a group of amateur (HAM) radio operators from Fort Worth and Dallas and has launched balloons from Cleburne, Clifton, and Hillsboro airports since 1991. This is the first launch during this year and is funded by the amateur radio operators associated with the North Texas Balloon Project.

Operator☐s and Technical Data to follow at www.ntexbp.org <http://www.ntexbp.org/> or www.w5sjz.net <http://www.w5sjz.net/>.

Please forward to interested Hams and ham communities. I would also appreciate any announcement that could be made on local repeaters during allotted calls for announcements. Thanks as always.

Larry Westmoreland 73s K5PHD

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4601. Re: [GPSL] [Fwd: [KNSP] NTEXBP Next Launch]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 00:58:44 UTC
From: Joe
Topic: 4600 Message: 4601

Hillsboro guys,

The flight this weekend August 9th,

The crossband repeater 445.800 / 147.560

is it a system that goes BOTH WAYS?

IE: no signals nothing happens,

If the 445.800 reciever hears something then it re transmits what it
hears on 147.56

and visa versa,

what it hears on 147.56 it re transmits onto 445.800

Yes? No?

Joe WB9SBD

Mike Manes wrote:

>-------- Original Message --------
>Subject: [KNSP] NTEXBP Next Launch
>Date: Fri, 01 Aug 2008 08:34:05 -0500
>From: Larry Westmoreland <jlwesty@...>
>To: KNSP@yahoogroups.com
>
>
>
>With respect and kind regards...
>
>
>AMATEUR RADIO GROUP TO FLY MEMORIAL BALLOON FLIGHT FROM HILLSBORO AIRPORT
>
>A Memorial Flight for club member John Newman, Cindy Newman, son JW
>Newman has been scheduled. John was our pilot and flew the mission□s
>chase plane. It also served as our repeater for recovery ground
>operations. The Newman□s passed away in a tragic plane crash a few weeks
>ago.
>
>The Newman□s mission held by the North Texas Balloon Project (NTEXBP) is
>planned for launch about 8:30 am on *August 9, 2008* from the municipal
>airport in Hillsboro, Texas, just south of Fort Worth and Dallas. Two
>payload packages containing sensors and amateur radios will be carried
>to nearly 100,000 feet in about 90 minutes by a Helium balloon and

>return via parachute in about 50 minutes. Mobile recovery teams will
>use position reports from the onboard GPS and APRS transmitter on
>*144.390 MHz* and radio direction finding techniques to recover the
>payloads.
>
>Pre-launch activities will begin about 7:00 am with the HF Launch Net on
>*7260 +/- 5
>kHz, LSB* beginning around 8:00 am. A cross band repeater will be
>activated soon after
>launch. Uplink is *445.800 MHz* and downlink is *147.560 MHz*.
>Handheld VHF radios
>and scanners can receive the downlink easily. At the peak altitude ham
>radio operators
>from Texas, Oklahoma, Arkansas, Louisiana, and Kansas can contact each
>other using
>the cross band repeater.
>
>The radios used normally have a range of about 25 miles, but that range
>will be extended
>to about 500 miles at the peak altitude. At the peak altitude, the
>curvature of the earth is visible. Digital video is recorded for later
>playback. APRS packets transmit the balloon's location about once a minute.
>
>NTEXBP's Tommy Davis said, "This is being done because the Newman□s are
>in our thoughts and they meant so much to our community.In past
>operations we did the launches for fun and the enjoyment of flight. It
>involves many different facets of amateur radio and thus a project that
>many types of amateur radio operators can enjoy together.□ There is
>also an educational component utilized by scouting groups, because it
>involves orienteering and can be counted toward several different merit
>badges, as well as by teachers for science experiments. Davis said,
>□Area scout troops are invited along with all that are interested.□
>
>In the event of unfavorable weather or poor jet stream conditions, the
>launch will occur at a later date. Be sure to check www.ntexbp.org
><http://www.ntexbp.org/> or www.w5sjz.net <http://www.w5sjz.net/> and
>other Ham Radio forums and news sources for later information.
>
>The public is invited to come out to the Hillsboro Municipal Airport,
>located at Exit 3 on
>Interstate Highway 35W, to watch the launch.
>
>North Texas Balloon Project is a group of amateur (HAM) radio operators
>from Fort Worth and Dallas and has launched balloons from Cleburne,
>Clifton, and Hillsboro airports since 1991. This is the first launch
>during this year and is funded by the amateur radio operators associated
>with the North Texas Balloon Project.
>
>Operator□s and Technical Data to follow at www.ntexbp.org

><http://www.ntexbp.org/> or www.w5sjz.net <http://www.w5sjz.net/>.
>
>Please forward to interested Hams and ham communities. I would also
>appreciate any announcement that could be made on local repeaters during
>allotted calls for announcements. Thanks as always.
>
>Larry Westmoreland 73s K5PHD
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4602. GPSL & ORB

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 01:30:21 UTC
From: Harry M
Topic: 3356 Message: 4602

Many, many thanks for all the hard work for making GPSL08 a huge success! I had a great time and so did Mark & Carol. They are looking forward to GPSL09 as am I. It was great to see everyone again and to make some new friends. I hope everyone had a safe and uneventful journey home.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

4603. GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 02:16:17 UTC
From: Harry M
Topic: 4603 Message: 4603

GPSL ORB-24 APRS Failure Anaysis

The APRS on ORB-24 failed on ascent. The last altitude reported was 41552 ft. The batteries are still in good shape as is the radio and GPS. It seems the TinyTrack III failed. I connected the pc to it and several perameters were missing or changed in the Primary config. The "Callsign" and "Digi Path" are blank. The "Symbol" field has changed from O to -, "Send only Valid" is checked (normally NOT checked), both "Mic-E" boxes were checked (normally NOT checked), "Time Slotting" checked and set at -34423 (no slotting used on this flight). The Secondary config had not changed. I will investigate further and try to determin the cause.

I had this happen on ORB-7 the EBBE flight and it was caused by breaks in the pcb traces under the DB9 connector. That will be the first area of investigation.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/

4604. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 04:19:36 UTC
From: Mike Manes
Topic: 4595 Message: 4604

Congratulations to you and Rachel - on both counts. I'm sure KNSP is
dee-lighted to feast the return of its Beloved Founder, and hope you've
left TVNSP in good hands.

73 de Mike W5VSI, EOSS

L. Paul Verhage wrote:
> Well, it was a great time. Rachel and I had to leave right after lunch,
> so we're mising the last dinner. So what about GPSL 2009?
>
> Well first, the announcements I made at the conference were that Rachel
> and I were married in June and that she and I are attending school in
> Kansas. So for the next three years we'll be based out of Topeka. I'm
> planning to add near space and BalloonSats to my PhD program. I'll
> start meeting with the local astronomy and radio clubs this month to get
> them involved.
>
> So I'd like to host GPSL 2009 at KU in Lawrence. I'll let everyone know
> within 30 days if I can arrange this. If I can't, then Jerome from
> North Texas discussed hosting GPSL. Jerome, do you still this is possible?
>
> Thanks everyone, see you next year. I'll start flying with the local
> groups.
>
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4605. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 05:02:52 UTC
From: Mike Manes
Topic: 4603 Message: 4605

Hi Harry,

Hmmm ... it's possible that there was some RF getting into the low-level sigs on the TT3 PCB. It has a very puny ground trace distribution. I gussied up the ground on the K0YUK-11 APRS Lite beacon using a grid of bus wire, mounting it over a ground plane and using a J-pole (minimum counterpoise current geting back inside).

73 de Mike W5VSI

Harry M wrote:
> GPSL ORB-24 APRS Failure Anaysis
>
> The APRS on ORB-24 failed on ascent. The last altitude reported was 41552
> ft. The batteries are still in good shape as is the radio and GPS. It seems
> the TinyTrack III failed. I connected the pc to it and several perameters
> were missing or changed in the Primary config. The "Callsign" and "Digi
> Path" are blank. The "Symbol" field has changed from O to -, "Send only
> Valid" is checked (normally NOT checked), both "Mic-E" boxes were checked
> (normally NOT checked), "Time Slotting" checked and set at -34423 (no
> slotting used on this flight). The Secondary config had not changed. I will
> investigate further and try to determin the cause.
>
> I had this happen on ORB-7 the EBBE flight and it was caused by breaks in
> the pcb traces under the DB9 connector. That will be the first area of
> investigation.
>
> 73 Harry
>
>
>
> -----
> Harry Mueller - KC5TRB - Tulsa
> Oklahoma Research Balloons
> Home Page - http://members.cox.net/hhm_74775/orb/
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> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4606. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 04:39:40 UTC
From: P. Suryono Adisoemarta
Topic: 4603 Message: 4606

Harry,

I had this failure happened to the second flight of ARSAT (this was around 2003), when we were doing payload integration test on the ground. Somehow TT3 was very susceptible to RF power from the nearby beacon transmitter. After several minutes of beaconing, when we're ready to conclude the test and wrap up to be ready for tomorrow's flight, the beacon quit working. After we dismantle the payload and plug a serial cable to it, we found that the config got complete trashed (similar to yours, blank callsign and path, and weird parameters on the other fields).

At that time we were not sure what caused the problem (whether the TT3 by itself, or the close proximity to another transmitter), so that night we had to scramble, replacing the TT3 with an OpenTracker1 rev3, and, built another enclosure to house the beacon transmitter. That flight went up successfully.

73 de Paulus N5SNN/YD0NXX

--- On Sun, 8/3/08, Harry M <hhm_74115@...> wrote:

>
> The APRS on ORB-24 failed on ascent. The last altitude
> reported was 41552
> ft. The batteries are still in good shape as is the radio
> and GPS. It seems
> the TinyTrack III failed. I connected the pc to it and
> several perameters
> were missing or changed in the Primary config. The
> "Callsign" and "Digi
> Path" are blank. The "Symbol" field has
> changed from O to -, "Send only
> Valid" is checked (normally NOT checked), both
> "Mic-E" boxes were checked
> (normally NOT checked), "Time Slotting" checked
> and set at -34423 (no
> slotting used on this flight). The Secondary config had not
> changed. I will
> investigate further and try to determin the cause

4607. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 09:53:16 UTC
From: Troy Campbell
Topic: 4603 Message: 4607

Harry,

I had the same thing happen last year but it happened the night before the flight. I thought that PIC's flash had given up. I reflashed it and have been using it since then with no problems.

KC0MIC, Troy

--- On Mon, 8/4/08, Mike Manes <mrmanes@...> wrote:
From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] GPSL ORB-24 APRS Failure Analysis
To: "Harry Mueller KC5TRB ORB" <hhm_74115@...>
Cc: GPSL@yahoogroups.com
Date: Monday, August 4, 2008, 12:02 AM

Hi Harry,

Hmmm ... it's possible that there was some RF getting into the low-level sigs on the TT3 PCB. It has a very puny ground trace distribution. I gussied up the ground on the K0YUK-11 APRS Lite beacon using a grid of bus wire, mounting it over a ground plane and using a J-pole (minimum counterpoise current geting back inside).

73 de Mike W5VSI

Harry M wrote:
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> ft. The batteries are still in good shape as is the radio and GPS. It
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> the TinyTrack III failed. I connected the pc to it and several perameters
> were missing or changed in the Primary config. The "Callsign"
and "Digi
> Path" are blank. The "Symbol" field has changed from O to
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> Valid" is checked (normally NOT checked), both "Mic-E"
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> (normally NOT checked), "Time Slotting" checked and set at
-34423 (no
> slotting used on this flight). The Secondary config had not changed. I
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> investigate further and try to determin the cause.
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> I had this happen on ORB-7 the EBBE flight and it was caused by breaks in
> the pcb traces under the DB9 connector. That will be the first area of
> investigation.

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> 73 Harry
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> Harry Mueller - KC5TRB - Tulsa
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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

Yahoo! Groups Links

4608. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 14:46:27 UTC
From: Harry M
Topic: 4603 Message: 4608

I reprogrammed the PIC and the tones are not what they should be, they are lower, almost like 300 baud, but not. The 300 baud box is not checked. I replaced the PIC with a spare and the TT works just fine. So it seems that the PIC is kaput. This TT has flown for at least 15 flights and if there was an RF problem I would suspect the 10m beacon which has not flown before. The very top of the 10m antenna was 4ft below the TT and is very low power (QRPppp). I will do some close proximity testing to see if I can wipe out the PIC.

Thanks for the input!

73 Harry

4609. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 15:08:05 UTC
From: Harry M
Topic: 4603 Message: 4609

Troy, how did you flash the TT pic? As far as I know the source code is not available.

> I had the same thing happen last year but it happened the night before the
> flight. I thought that PIC's flash had given up. I reflashed it and have
> been using it since then with no problems.

4610. Near Space Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 20:17:18 UTC
From: L. Paul Verhage
Topic: 2568 Message: 4610
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4611. Re: [GPSL] Near Space Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 20:36:04 UTC
From: L. Paul Verhage
Topic: 2568 Message: 4611
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4612. Re: [GPSL] Near Space Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 20:53:44 UTC
From: Mark Conner
Topic: 2568 Message: 4612
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4613. Famous last words!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 21:00:50 UTC
From: Harry M
Topic: 4613 Message: 4613

I have a short video on the ORB post flight page.
Famous last words for some of our recoveries!

http://members.cox.net/hhm_74445/orb/orb24/postflight.html

73 Harry KC5TRB

4614. Re: [GPSL] Near Space Video

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 21:06:14 UTC
From: L. Paul Verhage
Topic: 2568 Message: 4614
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4615. Re: [GPSL] Famous last words!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 22:29:33 UTC
From: Mike Manes
Topic: 4613 Message: 4615

So, Harry ... Didja climb that tree?? :=}
73 de Mike W5VSI

Harry M wrote:
> I have a short video on the ORB post flight page.
> Famous last words for some of our recoveries!
>
> http://members.cox.net/hhm_74445/orb/orb24/postflight.html
>
>
> 73 Harry KC5TRB
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4616. Re: [GPSL] Famous last words!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-04 21:47:48 UTC
From: Harry M
Topic: 4613 Message: 4616

No Sir! The gentleman was kind enough to lend us a 24ft ext ladder and with a couple entendable poles I carry, duct taped together, that's all we needed.

Missed you being there Mike. Hope your germs have passed.

73 Harry

> So, Harry ... Didja climb that tree?? :=}
73 de Mike W5VSI

4617. pROCESSOR sPEED?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-05 22:26:27 UTC
From: Joe
Topic: 4617 Message: 4617

hI ALL,

hEY A QUESTION FOR YA, Oops caplock,, ok anyway,,

To read the data string from a typical GPS like the Garmnin hockey puck.

A processor, what do you all think the minimum speed would need to be
to read it well?

Joe WB9SBD

4618. GPSL Pics in Progress

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 00:01:26 UTC
From: dlkaiser23
Topic: 4618 Message: 4618

Keith has started a link with GPSL pics here:
http://nearspaceventures.com/gpsl2008/GPSLPics/gpslpics.html.
He is still working on it, so there is some editing to come. If you have any really sensational
pics you want included, send him an email at wa0tjt@.... 73;'s - NSV Launch Crew.

4619. Re: [GPSL] pROCESSOR sPEED?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 00:22:08 UTC
From: Zack Clobes
Topic: 4617 Message: 4619
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4620. Re: [GPSL] pROCESSOR sPEED?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 01:26:46 UTC
From: Mike Manes
Topic: 4617 Message: 4620

Hi Joe,

My Turbo XT (12 MHz!!) reads once per sec full NMEA sentences at 4800 baud from a Jupiter just fine to ProComm under DOS. Not sure if Vista can handle it, tho. The terminal program may be the biggest bottleneck, however. Some are such resource hogs that they can't keep up.

73 de Mike W5VSI

Joe wrote:
> hI ALL,
>
> hEY A QUESTION FOR YA, Oops caplock,, ok anyway,,
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> To read the data string from a typical GPS like the Garmnin hockey puck.
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> A processor, what do you all think the minimum speed would need to be
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> Joe WB9SBD
>
> ------------------------------------
>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4621. RE: [GPSL] pROCESSOR sPEED?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 00:44:18 UTC
From: Fraser, Don
Topic: 4617 Message: 4621

Hi Joe;

I use PuttyTEL, an open source (free) terminal emulator on windows 2003 server, and it works great at 9600 baud. Also runs on many other versions of Windows. Note other versions of PuTTY include support for TELNET and related protocols, which you probably don't need meaning that PuttyTEL has the least overhead of the collection.

You can download it from http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html, or I can email it to you (300 KB).

Don Fraser
HP SWD R&D, Colorado Lab
Desk Phone: 719.548.3272
Cell Phone: 719.930.7761

_____
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike Manes
Sent: Tuesday, August 05, 2008 7:27 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] pROCESSOR sPEED?

Hi Joe,

My Turbo XT (12 MHz!!) reads once per sec full NMEA sentences at 4800 baud
from a Jupiter just fine to ProComm under DOS. Not sure if Vista can handle
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are such resource hogs that they can't keep up.

73 de Mike W5VSI

Joe wrote:
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>

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Mike Manes mrmanes@...<mailto:mrmanes%40gmail.com> Tel: 303-979-4899
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A. Einstein

4622. WB8ELK balloon HF transmission reception reports?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 01:06:56 UTC
From: wb8elk@aol.com
Topic: 4622 Message: 4622

Did anyone listen for the WB8ELK HF transmitter shortly after liftoff or shortly before landing?

Ralph, Do you know the approximate times when you heard my HF transmitter on 28.172 MHz?

I was using the Trimble Copernicus GPS unit on it for the first time (it works fine with the Garmin GPS18-LVC in previous flights)....it was working prior to liftoff and was working fine after landing but I didn't have an HF rig in the car to check on it during the flight. The first time we flew a Copernicus with a Byonics Microtrak300 it stopped reporting position and altitude above 29,000 feet and started to work again upon descending below that altitude.....so I'm wondering if that is the same thing going on....In this new version of my code I have it looking for the GPS timestamp in order to start transmission at the top of each even minute so if the GPS stopped working, then it would've been key down with no telemetry....I'll put a GPS error trap in the next version of the code....Mark KA9SZX also heard a good signal on the carrier in Macomb IL but wasn't close enough to hear it below 29,000 feet....so hopefully someone closer in was able to copy it.

- Bill WB8ELK

**********Looking for a car that's sporty, fun and fits in your budget?
Read reviews on AOL Autos.
(http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017)

4623. Flight data log on 144.34 APRS?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 01:20:59 UTC
From: wb8elk@aol.com
Topic: 4623 Message: 4623

Does anyone have a log file of their reception on 144.34 MHz APRS?

- Bill WB8ELK

**********Looking for a car that's sporty, fun and fits in your budget?
Read reviews on AOL Autos.
(http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017)

4624. RE: [GPSL] pROCESSOR sPEED?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 02:08:18 UTC
From: Earl Foster
Topic: 4617 Message: 4624

Windows Vista did away with Terminal server so I use Parallax Serial Terminal program to monitor my GPS. The Stamp and Propeller have no problem capturing strings. If you are interested the software is free and can be download at http://www.parallax.com/tabid/442/Default.aspx.

To: GPSL@yahoogroups.comFrom: don.fraser@...: Wed, 6 Aug 2008 00:44:18 +0000Subject: RE: [GPSL] pROCESSOR sPEED?

Hi Joe;

I use PuttyTEL, an open source (free) terminal emulator on windows 2003 server, and it works great at 9600 baud. Also runs on many other versions of Windows. Note other versions of PuTTY include support for TELNET and related protocols, which you probably don't need meaning that PuttyTEL has the least overhead of the collection.

You can download it from http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html, or I can email it to you (300 KB).
Don Fraser HP SWD R&D, Colorado Lab Desk Phone: 719.548.3272 Cell Phone: 719.930.7761

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Mike ManesSent: Tuesday, August 05, 2008 7:27 PMTo: GPSL@yahoogroups.comSubject: Re: [GPSL] pROCESSOR sPEED?

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Get Windows Live and get whatever you need, wherever you are. Start here.
http://www.windowslive.com/default.html?ocid=TXT_TAGLM_WL_Home_082008

4625. Photos of GPSL 2008

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 02:50:03 UTC
From: Keith Kaiser
Topic: 4625 Message: 4625

Aeronauts,

If you get a few minutes have a look at superlaunch.org, I've added a link to a collection of still under construction photos near the top of the page. If you have better photos of the people than what is showing please send one my way so I can switch them out.

Send them to wa0tjt@...

73's

Kansas City or Burst!

p.s.
The direct link is;
http://nearspaceventures.com/gpsl2008/GPSLPics/gpslpics.html

4626. Re: NWS Balloon Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 04:04:49 UTC
From: Ron N9QGS
Topic: 4626 Message: 4626

> I have a question I am going to throw out at the group. My local
> NWS office launches two balloons a day and they use the Mark II
> Microsonde which here is the spec sheet and talks about the GPS and
> digital downlink.

http://www.sippican.com/stuff/contentmgr/files/3e8052902595d3629c7b01ca9f4201b0/sheet/mark2.pdf

My question is has anyone or is there a method to decode data from a weather balloon and possibly get the GPS data that is being downlinked, because I read they get like 20% of there balloons back and if there was an easy way to track and recover a NWS balloon, I would not mind doing it a couple times a year just for the fun of it. I would have figured with most NWS offices being hams they should incorporate a APRS type device so your average APRS user could say hey a weather balloon just came down a mile from the house, let me go retrieve that for the NWS. But maybe I am just wishing we have 100 plus balloons to watch every day on APRS. hahaha

But I would appreciate any comments on if anyone given thought to attempting recovery of NWS balloons and how is the best way to go about it. I believe the NWS tracks it only up to 60 to 70K on the way up and then they don't monitor the location any further.

4627. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 11:50:42 UTC
From: Troy Campbell
Topic: 4603 Message: 4627

Harry,

Sorry, I didn't mean "flash the code", I meant reset "start from scratch with ttconfig.exe and save it again.

I also stopped using a linux version of the ttconfig as it was not getting it right. I use the winbloz version under wine and haven't had any problems.

tmc

--- On Mon, 8/4/08, Harry M <hhm_74115@...> wrote:
From: Harry M <hhm_74115@...>
Subject: Re: [GPSL] GPSL ORB-24 APRS Failure Analysis
To: GPSL@...m
Date: Monday, August 4, 2008, 10:08 AM

Troy, how did you flash the TT pic? As far as I know the source code is not

available.

> I had the same thing happen last year but it happened the night before the

> flight. I thought that PIC's flash had given up. I reflashed it and have

> been using it since then with no problems.

4628. Re: [GPSL] Re: NWS Balloon Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 13:15:20 UTC
From: Michael Gray
Topic: 4626 Message: 4628

I found a Vaisala weather sonde along the road a couple weeks ago in
Arizona.

http://www.vaisala.com/weather/products/soundingequipment/radiosondes/rs92

The internal bar code shows a Model RSS921. Perhaps Mark might know if
this is a NWS Sonde or someone else's. This appears to be a Radar or
Loran-C tracking device. Their brochure shows a variety of models. The
GPS variant has a Quadrifilar antenna. The model I found has a long
wire antenna. The center conductor is an insulated wire and it is
spiral wrapped with a bare piece of wire that was connected to ground
within the module.

The internal electronics use a PIC controller, a couple hex inverters,
and an RF chain.

Ron N9QGS wrote:
>> I have a question I am going to throw out at the group. My local
>> NWS office launches two balloons a day and they use the Mark II
>> Microsonde which here is the spec sheet and talks about the GPS and
>> digital downlink.
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> My question is has anyone or is there a method to decode data from a
> weather balloon and possibly get the GPS data that is being
> downlinked, because I read they get like 20% of there balloons back
> and if there was an easy way to track and recover a NWS balloon, I
> would not mind doing it a couple times a year just for the fun of
> it. I would have figured with most NWS offices being hams they
> should incorporate a APRS type device so your average APRS user could
> say hey a weather balloon just came down a mile from the house, let me
> go retrieve that for the NWS. But maybe I am just wishing we have 100
> plus balloons to watch every day on APRS. hahaha
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> But I would appreciate any comments on if anyone given thought to
> attempting recovery of NWS balloons and how is the best way to go
> about it. I believe the NWS tracks it only up to 60 to 70K on the way
> up and then they don't monitor the location any further.
>

4629. Re: [GPSL] Re: NWS Balloon Tracking

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 13:40:52 UTC
From: Mark Conner
Topic: 4626 Message: 4629

Not all of the NWS offices have converted to GPS sondes, but I believe conversion will be complete in 2009. Also, NWS is not the only organization that sends radiosondes, so it may not be one of theirs.

Google didn't have anything specific on a RSS921 model from Vaisala - the RS92 series has several models including a GPS one.

As far as tracking a sonde goes, I believe that DFing by signal is probably the way to go for hobbyists (there are some folks who do that, perhaps even on this list). The GPS location is not fully decoded on board the sonde - I think the pseudorange numbers are sent down and location computed on the ground. I suppose you could purchase your own radiosonde receiving system and copy the data directly, but that's probably a five-figure investment.

NWS tracks the sonde to burst or LOS. Burst would normally be around 105,000 ft.

73 de Mark N9XTN

----- Original Message -----
From: Michael Gray <mgray@...>
Date: Wednesday, August 6, 2008 8:15 am
Subject: Re: [GPSL] Re: NWS Balloon Tracking
To: GPSL@yahoogroups.com

> I found a Vaisala weather sonde along the road a couple weeks ago in
> Arizona.
>
> http://www.vaisala.com/weather/products/soundingequipment/radiosondes/rs92
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> The internal bar code shows a Model RSS921. Perhaps Mark might
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> Loran-C tracking device. Their brochure shows a variety of
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> Ron N9QGS wrote:
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> > say hey a weather balloon just came down a mile from the house,
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> > about it. I believe the NWS tracks it only up to 60 to 70K on
> the way
> > up and then they don't monitor the location any further.
> >
>
>

4630. RE: [GPSL] Flight data log on 144.34 APRS?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 16:42:58 UTC
From: Nick Hanks
Topic: 4623 Message: 4630

Hi Bill,

EOSS collected a number of files on 144.34. I'll pull them together and send you a file with WB8ELK packets in it.

Nick

N0LP

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Tuesday, August 05, 2008 19:21
To: GPSL@yahoogroups.com
Subject: [GPSL] Flight data log on 144.34 APRS?

Does anyone have a log file of their reception on 144.34 MHz APRS?

- Bill WB8ELK

Looking for a car that's sporty, fun and fits in your budget? Read <http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017> reviews on AOL Autos.

4631. Re: [GPSL] GPSL Pics in Progress

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 17:42:04 UTC
From: L. Paul Verhage
Topic: 4618 Message: 4631
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4632. Re: [GPSL] Flight data log on 144.34 APRS?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 17:56:35 UTC
From: wb8elk@aol.com
Topic: 4623 Message: 4632

Thanks Nick...that would be great.

- Bill WB8ELK

**********Looking for a car that's sporty, fun and fits in your budget?
Read reviews on AOL Autos.
(http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017)

4633. Re: [GPSL] max altitude

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 18:05:44 UTC
From: wb8elk@aol.com
Topic: 4633 Message: 4633

Hi Paul,

My flight reached 101,640 feet and many thanks for the Parallax protoboard prize.

- Bill WB8ELK

WB8ELK-11>APT311,WIDE2-1,qAR,KK0HF:/142142h3856.95N/09422.54WO239/027/A=101640

**********Looking for a car that's sporty, fun and fits in your budget?
Read reviews on AOL Autos.
(http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017)

4634. Re: [GPSL] GPSL ORB-24 APRS Failure Analysis

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 18:13:24 UTC
From: Harry M
Topic: 4603 Message: 4634

Troy,

I don't know anything about the linux config or winbloz.
I use the config program from the Byonics website.

Harry

> I also stopped using a linux version of the ttconfig as it was not getting
> it right. I use the winbloz version under wine and haven't had any
> problems.

4635. RE: [GPSL] Flight data log on 144.34 APRS?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 19:13:55 UTC
From: Rick von Glahn
Topic: 4623 Message: 4635
Attachments: 1 described; binary payloads are missing from this source WARC

Yep, here is mine. It has some hole in it for out payload (ae0ss-11) so expect to see that for your payload too. I imagine I drove under the null for a while don't really know what happened.

I'm working on a recap for this flight so when that goes up this file will appear there but have a different name, something like "eoss131_ae0ss-11_log.txt". But I won't edit it other than the name.

CUL

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Tuesday, August 05, 2008 7:21 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Flight data log on 144.34 APRS?

Does anyone have a log file of their reception on 144.34 MHz APRS?

- Bill WB8ELK

_____

Looking for a car that's sporty, fun and fits in your budget? Read <http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017> reviews on AOL Autos.

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.12/1595 - Release Date: 8/6/2008 8:23 AM

4636. RE: [GPSL] Flight data log on 144.34 APRS?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 19:40:46 UTC
From: Rick von Glahn
Topic: 4623 Message: 4636

Oops, sorry for spamming the list with that file. But perhaps it will be of interest to others.

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Rick von Glahn
Sent: Wednesday, August 06, 2008 1:14 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Flight data log on 144.34 APRS?

Yep, here is mine. It has some hole in it for out payload (ae0ss-11) so expect to see that for your payload too. I imagine I drove under the null for a while don't really know what happened.

I'm working on a recap for this flight so when that goes up this file will appear there but have a different name, something like "eoss131_ae0ss-11_log.txt". But I won't edit it other than the name.

CUL

73 -- Rick, N0KKZ

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of wb8elk@...
Sent: Tuesday, August 05, 2008 7:21 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Flight data log on 144.34 APRS?

Does anyone have a log file of their reception on 144.34 MHz APRS?

- Bill WB8ELK

Looking for a car that's sporty, fun and fits in your budget? Read <http://autos.aol.com/cars-BMW-128-2008/expert-review?ncid=aolaut00050000000017> reviews on AOL Autos.

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.12/1595 - Release Date: 8/6/2008 8:23 AM

No virus found in this incoming message.
Checked by AVG - http://www.avg.com
Version: 8.0.138 / Virus Database: 270.5.12/1595 - Release Date: 8/6/2008 8:23 AM

4637. Re: GPSL Pics in Progress

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 19:54:03 UTC
From: Nicholas Stich
Topic: 4618 Message: 4637

--- In GPSL@yahoogroups.com, "L. Paul Verhage" <nearsys@...> wrote:
>
> I'd like to hear how high each mission flew and who won the
highest altitde
> award. I'm starting my article for Nuts and Volts magazine.
>
> Thanks,
> Paul

In a hurry to change the package container for
Balloon #2,I didn't get the package attached as well as I should
have and the package separated from the balloon and came in hot from
39,868 ft in less than 8 minutes. That comes out to 4,875 ft/min or
greater than 55 mph. There were 5 transmitters in the package (3
BRB products) and my Rino plus Jerome's transmitter. Believe or not
but they all survived and even the Rino did Ok.

Here are a few statistics from the flight:
Balloon #1 K0NMS-11 on 144.99
It was launched 2nd at GPSL filled with hydrogen
This is based on the Rino Data that is stored onboard.

Distance Balloon Traveled (actual path) = 53.5 miles
Time of Flight (aloft) = 1 hrs 56 min
Average Speed of Balloon = 28 mph
Maximum Altitude (by Rino) = 92,655 ft
Time to Max Altitude = 71 min
Avg. Rate of Ascent = 1292 fpm
Time of Descent = 45 min
Avg. Rate of Descent = 2035 fpm

Maximum Speed on Ascent = 76 mph at 42,391 feet
Maximum Speed on Descent = 75 mph at 41,986 feet

Here are a few statistics from the flight:
Balloon #2 K0NMS-7 446.175
It was launched 1st at GPSL filled with hydrogen
This is based on the Rino Data that is stored onboard

Distance Balloon Traveled (actual path) = 20.6 miles
Time of Flight (aloft) = 0 hrs 38 min
Average Speed of Balloon = 32 mph
Maximum Altitude (by Rino) = 39,868 ft
Time to Max Altitude = 30 min
Avg. Rate of Ascent = 1300 fpm
Time of Descent = 8 min

Avg. Rate of Descent = 4875 fpm (free fall- no chute)

Maximum Speed on Ascent = 112 mph at 39,868 feet
Maximum Speed on Descent = 94 mph at 10,274 feet

4638. Re: [GPSL] Good Luck To Everyone Next Weekend!

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-06 22:45:03 UTC
From: Joe
Topic: 4518 Message: 4638

still ready for saturdat?

Mark Garrett wrote:

> Hi All:
>
>
>
> Like Joe, I wish I were able to go this year but a work event has
> sidelined me. Hope to go in another year.
>
>
>
> Since I am just reading my email here I would say an initial vote
> would be 146.565 for VHF (several cw and voice beacons have used this
> frequency in the past and would probably be off the beaten path enough
> you would avoid most of the general chit chat on 146.520 and only run
> onto a few people who use that for radiolocation and such. On UHF
> possibly 446.500?
>
> Others may have an input but what ever you land on Joe let us know and
> I hope to try and work your balloon from the south side of the Cheddar
> curtain.
>
>
>
> Mark Garrett
>
> KA9SZX
>
>
>
> ----- Original Message ----
> From: Joe <nss@...>
> To: GPSL@yahoogroups.com
> Sent: Sunday, July 27, 2008 9:39:13 AM
> Subject: [GPSL] Good Luck To Everyone Next Weekend!
>
> Hi All,
>
> Wish I was able to be there But just not in the cards so to speak.
> Someday, Someday!
>
> But NSS is doing a flight the following weekend. on August 9th.
>

> We will be flying the payload that was going to fly a while ago, but
> just could not get a sastifactory landing spot, remember we would have a
> high possibility of landing in lake Michigan that day no matter what we
> flew for lift?
>
> Anyway, the usual APRS 144.39 WB9FDZ-11
>
> And our crossband repeater 144/446.
>
> But here's the question for you all. Suggested freqs to use.
>
> In the past on these flights we have used all sorts of freqs. first
> starting off with ones as far off the beaten path as possible. But then
> the only people that were able to enjoy it were people involved with the
> flight, and the people on these e mail lists etc. While still fun, a
> simple and fun payload like this we'd like to share with the rest of the
> amateur community.
>
> So almost exactly a year later, we are flying this crossband repeater
> again. And are trying to decide what freq pair to use. Last year while
> fun, 99% of the people involved had a blast! And we made 238 QSO's
> during the flight! BUT it was using a freq pairing that caused a LOT of
> confusion, 146.52 / 446.000,,,,, ,,
>
> While 99% of the people that used it that day enjoyed it greatly, there
> were that 1% that slammed us greatly for using those freqs even though
> it was only for two hours, Then there were the ones that no matter how
> many times we explained to them that it was a cross band repeater at
> 100,000 feet and NOT A HUGE BAND OPENING, they were calling people like
> after we'd sign with someone, they'd go,
>
> WB9SBD THIS IS K9XYZ GO UP to 146.55 I'LL CALL YA. and stuff like
> that.. they just no matter how many times we explained what was going
> on they still thought it was a huge band opening , not a 2 watt repeater
> on the equivalent of a 100,000 foot tall tower!
>
> So obviously we don't want to use those call freqs again, but a
> secondary pair so to speak, that are like secondary splinter freqs,
> like 146.52. has 146.55 and 146.58 stuff like that, but, I can not
> seem to find freqs that are secondary freqs like that but on 70 cm. Ya
> know a slinter freq for 446.000.
>
> While it won't be nearly as popular as the 146.52 / 446.000 pairing, it
> still at least will get a few more people that do not know about the
> flight a chance to play with it.
>
> I've contacted our local Repeater co-oridinator group fopr suggestions,
> and have had the same result I've gotten from them for the past 20
> years ZILCH!
> any suggestions? for a two hour experiment?

>
> Joe WB9SBD
> Near Space Sciences
>
>
>

4639. RE: [GPSL] GPSL Pics in Progress

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-07 03:07:14 UTC
From: Nick Hanks
Topic: 4618 Message: 4639

Hi Paul,

A quick summary on the EOSS flight at GPSL.

We had six payloads under a 1200 gram balloon for the flight: The payloads were: a CW beacon/cut away, a B-LAN that sent GPS-derived position and altitude data via a wireless connection to the ATV, the ATV which looked up and down, a Canon frame camera, a cross-band repeater/APRS beacon (UHF up and voice and APRS down on 2 meters), and an APRS module. We also flew a light weight version of the balloon cut away device W5VSI briefed at GPSL 2006 in Hutch.

The EOSS balloon (AE0SS-11) reached a maximum GPS altitude of 88,759 ft. It landed 28.9 miles from the launch site. All the payloads functioned correctly. KB0YRZ recorded the ATV signal on the move and has imagery of the balloon in final descent.

The balloon was traveling northwest near the ground then the ARPS module caught a tree. The rest of the payload string then draped itself over the tree with the parachute being caught up in a smaller tree to the west of the bigger tree. After receiving permission from the land owner to enter the land, we pulled the parachute down. But the rest of the payloads were too high to reach, and the tree was a hedge tree and covered in thorns. One of our group borrowed a 30 ft. extension ladder from a nearby house. That allowed us to reach the other payloads, and they were freed one at a time. Removing a flight string from a tree was a new experience for almost all of us. Seems EOSS had put one other balloon in a tree in the early ☐90s in Boulder, but it was fetched by the fire department and put under a new balloon and flew fine the same day.

After securing the payloads for travel back to Denver, we called the other groups asking if we could be of assistance. A number of the groups welcomed our help.

We had nine vehicles supporting the track and recovery of the balloon lead by WAØGEH, the Alpha for the flight. One tracker made HF contact with Denver during the flight. We also run two mobile I-Gates that sent not only the packets of the balloons on 144.34 MHz, but also the trackers as we fly a KPC-3 TNC on our APRS module, and it digipeats the trackers who beacon APRS on 144.34 also.

A quick after flight review of the Canon pictures showed several balloon-to-balloon images of the three balloons that launched when we did. A complete rundown of the flight will be posted on our website www.eoss.org <http://www.eoss.org/> . Look for the EOSS-131 data. The video from the ATV will be put on the site when it☐s been reduced to the ☐good☐ stuff.

73,

Nick

NØLP

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Wednesday, August 06, 2008 11:42
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL Pics in Progress

I'd like to hear how high each mission flew and who won the highest altitde award. I'm starting my article for Nuts and Volts magazine.

Thanks,

Paul

On Tue, Aug 5, 2008 at 6:01 PM, dlkaiser23 <dlkaiser@kc. <mailto:dlkaiser@...> rr.com> wrote:

Keith has started a link with GPSL pics here: http://nearspaceven <http://nearspaceventures.com/gpsl2008/GPSLPics/gpslpics.html> tures.com/gpsl2008/GPSLPics/gpslpics.html.
He is still working on it, so there is some editing to come. If you have any really sensational
pics you want included, send him an email at wa0tjt@gmail. <mailto:wa0tjt@...> com. 73;'s - NSV Launch Crew.

Yahoo! Groups Links

(Yahoo! ID required)

yahoogroups.com

4640. URLs

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-07 21:06:08 UTC
From: L. Paul Verhage
Topic: 4640 Message: 4640
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4641. RE: [GPSL] URLs

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-07 21:12:39 UTC
From: Patterson, David
Topic: 4640 Message: 4641

Taylor HARP:
http://www.taylor.edu/academics/acaddepts/physics/balloon.shtml

- David Patterson
dvpatterson@...
"If passion drives you,
let reason hold the reins."
~Benjamin Franklin

From: GPSL@yahoogroups.com on behalf of L. Paul Verhage
Sent: Thu 8/7/2008 5:06 PM
To: gpsl@yahoogroups.com
Subject: [GPSL] URLs

I need webpages for Taylor's HARP and Nick's and Jerome's programs.

Thanks,
Paul

4642. RE: [GPSL] URLs

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-07 22:38:12 UTC
From: Nick Hanks
Topic: 4640 Message: 4642

Paul,

I haven't setup a web page for TrackPoint. Interested folks can reach me at n0lp@....

Nick

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Thursday, August 07, 2008 15:06
To: gpsl@yahoogroups.com
Subject: [GPSL] URLs

I need webpages for Taylor's HARP and Nick's and Jerome's programs.

Thanks,

Paul

4643. Article Information

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-08 15:50:56 UTC
From: L. Paul Verhage
Topic: 4643 Message: 4643
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4644. Hellscriber

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-08 15:55:06 UTC
From: L. Paul Verhage
Topic: 4644 Message: 4644
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4645. Re: [GPSL] Article Information

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-08 16:07:01 UTC
From: Keith Kaiser
Topic: 4643 Message: 4645

Paul,

The BASE 20 and HALO presentation PowerPoints can be downloaded from superlaunch.org next to their names.

The dog tracking was less than completely successful, more details will take some time to compile.

Taylor and Nick Stick/Jerome launched Hydrogen balloons.

We all launched from the Maybee Center practice field at William Jewell College.

Nick and Jerome do not have a web page.

On Aug 8, 2008, at 10:50 AM, L. Paul Verhage wrote:

>
> DePauw, what day did you launch BASE 20?
>
> Taylor, what day did you do the HALO flights?
>
> How did the dog tracking go? Was that the Near Space Ventures flight?
>
> One of the hydrogen flights was Taylor. Who was the other?
>
> Is there going to be a graphic showing the flight paths of alll the
> balloons?
>
> How did the CAP'n'Space flight go?
>
> What is the name of the field we launched from?
>
> So Nick Stich and Jerome launched together? Do either of you have a
> web page?
>
> Thanks,
> Paul
>
>

4646. Re: Article Information

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-08 21:50:07 UTC
From: Nicholas Stich
Topic: 4643 Message: 4646

> One of the hydrogen flights was Taylor. Who was the other?

Nick Stich & Jerome flew 2 hydrogen balloons.
Balloon #1 was K0NMS-11 / Rino 110 ID = NMS-1
Balloon #2 was K0NMS-7 / Rino 110 ID = NMS-2

> So Nick Stich and Jerome launched together? Do either of you have
>a web page?

Yes Nick & Jerome launch together.

Neither Jerome or I have a web page. I sometimes post to the old
Habitat_Skylab forum files section. I use the data stored via the
data logging feature of the Rino 110 for my data reduction. I use
the
Garmin MapSource software and download the data.

Since so many people don't have the Garmin MapSource software I have
gotten into the habitat of using Excel to present my data. It
allows
me to place screen shots from the MapSource software and to also
provide the raw data data from the Rino. I typical have somewhere
between 1500 and 2000 data points from the Rino 110. I then plot
this
data.

If others are intersted I would be more than happy to provide the
Mapsource files and/or the Excel files for my GPSL 2008 Flights.

4647. Re: [GPSL] Re: Article Information

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-08 22:21:54 UTC
From: L. Paul Verhage
Topic: 4643 Message: 4647
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4648. RE: [GPSL] Re: Article Information

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-08 22:59:25 UTC
From: Earl Foster
Topic: 4643 Message: 4648
Attachments: 2 described; binary payloads are missing from this source WARC

I captured a couple of Google Earth images of the launch. It was pretty cool seeing so many balloons in the air at once.
Earl

To: GPSL@yahoogroups.comFrom: nearsys@...: Fri, 8 Aug 2008 17:21:54 -0500Subject: Re: [GPSL] Re: Article Information

Thanks. Paul
On Fri, Aug 8, 2008 at 4:50 PM, Nicholas Stich <NStich@...> wrote:

> One of the hydrogen flights was Taylor. Who was the other?Nick Stich & Jerome flew 2 hydrogen balloons.Balloon #1 was K0NMS-11 / Rino 110 ID = NMS-1Balloon #2 was K0NMS-7 / Rino 110 ID = NMS-2
> So Nick Stich and Jerome launched together? Do either of you have>a web page?Yes Nick & Jerome launch together.Neither Jerome or I have a web page. I sometimes post to the oldHabitat_Skylab forum files section. I use the data stored via thedata logging feature of the Rino 110 for my data reduction. I usetheGarmin MapSource software and download the data.Since so many people don't have the Garmin MapSource software I havegotten into the habitat of using Excel to present my data. Itallowsme to place screen shots from the MapSource software and to alsoprovide the raw data data from the Rino. I typical have somewherebetween 1500 and 2000 data points from the Rino 110. I then plotthisdata.If others are intersted I would be more than happy to provide theMapsource files and/or the Excel files for my GPSL 2008 Flights.

_____
Reveal your inner athlete and share it with friends on Windows Live.
http://revealyourinnerathlete.windowslive.com?locale=en-us&ocid=TXT_TAGLM_WLYIA_whichathlete_us

4649. Re: [GPSL] Hellscriber

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-12 01:24:38 UTC
From: ccccrnr@aim.com
Topic: 4644 Message: 4649

Bill,

Can you email your presentation as well

ccccrnr@...

Thanks,
Carlton Corbitt
-.-? ..?? .....-? ?-.?? ....?? -.-

-----Original Message-----
From: L. Paul Verhage <nearsys@...>
To: gpsl@yahoogroups.com
Sent: Fri, 8 Aug 2008 10:55 am
Subject: [GPSL] Hellscriber

Bill, can you email me the information you shared with GPSL on Hellscriber?? I understand it's an HF mode.? Did you get some of the parts from electronics123.com,?or was that just the 10mW UHF radio?

?

Thanks,

Paul?

4650. Re: [Ballooning] NSS-46 Balloon Remmenant

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-12 17:57:58 UTC
From: Mike Manes
Topic: 4650 Message: 4650

Hi Joe,

Before we started flying our fast release on all of our flights, I brought home 6.0 lb of latex shards from a 3000 gm (6.6 lb) bag. Man! Did that play havoc with the parachute aerodynamics! Pretty snappy descent on that one - like 20 minutes from over 90K'.

Since then, the most latex we've brought home is a thread or two on the shroud lines. Guess a burst does blow shards at least 20 ft downward, since that's the distance from the balloon neck to 'chute skirt on our flights.

The new "lite" fast release designed for 1200 gm flights weighs just 105 gm and worked dandy on EOSS-131 out of GPSL '08.

73 de Mike W5VSI

Joe wrote:
> In the photos album at
> http://ph.groups.yahoo.com/group/Ballooning/photos/view/d7e6?b=1&m=f&o=0
> is a photo that is the worst we have even had of the amount of the
> balloon to come down after a flight.
>
> Most of the time it is less than half this amount.
>
> but i though i'd post this oddity of our flights. This is from NSS-46
> that happened last Saturday.
>
> This is easily double the amount of leftover balloon to come back from
> our flights.
>
> Joe WB9SBD
> Near Space Sciences
>
>
> ------------------------------------
>
> To start sending messages to members of this group,
> simply send email to
>
> Ballooning@yahoogroups.com
>
> If you do not wish to belong to Ballooning, you may
> unsubscribe by sending an email to
>
> Ballooning-unsubscribe@yahoogroups.com
>

> You may also visit the eGroups web site to modify your
> subscriptions:
>
> http://groups.yahoo.com/group/Ballooning
>
> To email the list Owner, just send a message to the
> following address:
>
> Ballooning-owner@yahoogroups.com
>
>
> Regards,
>
> Moderator, Ballooning
>
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4651. Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 01:31:47 UTC
From: Joe
Topic: 4651 Message: 4651

I have a question, Using a Microtrak300 in the config software under tims slotting,, i have never done that before. but I'm going to be flying two tracking payloads,
1- that i know works for sure,
and the other will be testing the GPS unit for altitude use.

so obviously if both work great! but i want to keep them from stepping on each other,

so when I checkmark the time slotting box it then asks for a transmit offset number,

what is that number mean? default looks like 15,

15 what?

Joe

4652. Re: [GPSL] Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 01:45:07 UTC
From: Mark Conner
Topic: 4651 Message: 4652
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4653. Re: [GPSL] Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 01:47:10 UTC
From: Harry M
Topic: 4651 Message: 4653

Hi Joe,

Once your GPS gets a lock, which will include the time, the time slot number is the seconds past the minute GPS time. Bear in mind that with time slotting you will only be able to xmt once a minute at the given seconds past the 0 minute.
The 15 that you are in question about would make the MT xmt at 15 seconds past the minute, every minute.

73 Harry

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> what is that number mean? default looks like 15,

4654. Re: [GPSL] Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 02:03:44 UTC
From: Harry M
Topic: 4651 Message: 4654

There is a point at 125 seconds and over, in the time slot offset, where it will return a -65411 value. Try 125 for the offset, save it then load it and you will see. I don't know what would happen if you set the offset to values over 60. I haven't played with it that much.

73 Harry

4655. Re: [GPSL] Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 13:23:23 UTC
From: BASE
Topic: 4651 Message: 4655

At GPSL, we flew the MicroTrak 300 with a 52 second offset and a transmit rate of 120 seconds. This resulted in transmitting at 52 seconds past the minute every two minutes.

Howard

--- On Wed, 8/13/08, Harry M <hhm_74115@...> wrote:
From: Harry M <hhm_74115@...>
Subject: Re: [GPSL] Time Slotting,
To: GPSL@yahoogroups.com
Date: Wednesday, August 13, 2008, 10:03 PM

There is a point at 125 seconds and over, in the time slot
offset, where it will return a -65411 value. Try 125 for the offset, save
it then load it and you will see. I don't know what would happen if you set the
offset to values over 60. I haven't played with it that much.

73 Harry

4656. Re: [GPSL] Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 16:18:11 UTC
From: Dan Wietchy
Topic: 4651 Message: 4656

In regard to time slotting, what happens if the GPS dies or becomes disabled?

cheers
Dan KL1JP
BEAR balloons

--- On Thu, 8/14/08, BASE <basedepauw@yahoo.com> wrote:
From: BASE <basedepauw@...>
Subject: Re: [GPSL] Time Slotting,
To: GPSL@yahoogroups.com
Date: Thursday, August 14, 2008, 5:23 AM

At GPSL, we flew the MicroTrak 300 with a 52 second offset and a transmit rate of 120 seconds. This resulted in transmitting at 52 seconds past the minute every two minutes.

Howard

--- On Wed, 8/13/08, Harry M <hhm_74115@cox. net> wrote:
From: Harry M <hhm_74115@cox. net>
Subject: Re: [GPSL] Time Slotting,
To: GPSL@yahoogroups. com
Date: Wednesday, August 13, 2008, 10:03 PM

There is a point at 125 seconds and over, in the time slot
offset, where it will return a -65411 value. Try 125 for the offset, save
it then load it and you will see. I don't know what would happen if you set the
offset to values over 60. I haven't played with it that much.

73 Harry

4657. Re: [GPSL] Time Slotting,

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-14 16:25:01 UTC
From: Harry M
Topic: 4651 Message: 4657

If you have "Send only Valid" checked it will not beacon.
If it is unchecked it will continue to send the last valid position.

73 Harry

In regard to time slotting, what happens if the GPS dies or becomes
disabled?

4658. WB8ELK 21st ARHAB anniversary flight recovery details from the launch from the IN State Fair

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-16 05:12:21 UTC
From: wb8elk@aol.com
Topic: 4658 Message: 4658

We had a great 21st ARHAB anniversary flight from the middle of the Indiana State Fair....even with very tight spaces to work with, we managed to get it up over the food vendors and?on over the cow barn. We reached 100105 feet.

?My primary APRS transmitter (WB8ELK-11)?stopped right at burst...I suspect either a broken?battery wire or a loose battery.?Fortunately, I had two other?GPS backups....the HF telemetry worked great and got the best results on Hellscreiber and DominoEX5....the DominoEX worked the best of all....I had good copy right down to 4000 feet using nothing but a two meter?whip antenna from 30 miles away on the wrong side of the cow barn....wrong side for signal and wrong side?for?smell.

? I relayed the?HF positions reports to Ron N9QGS and that got him close enough to watch the parachuting payload land?in a soybean field just north of Shelbyville,?IN...not far from Don Miller W9NTP's QTH.

??Ron tracked the 2m beacon and looked for?awhile in waist deep beans...so I resorted to my 3rd backup GPS...the GlobalStar FindMeSpot...and sure enough it was reporting it's actual landing coordinates...he walked right up to it with that data and recovered it all in good shape....beautiful?photos and videos on the cameras by the way.

?Final landing coordinates:? 39d 38.238m? 85d 48.87m

?
- Bill WB8ELK

4659. Re: WB8ELK 21st anniversary.....

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-17 02:34:56 UTC
From: Al Wolfe
Topic: 4659 Message: 4659

Bill,
First APRS packet received here was at 1640 feet. Last was the 100,105 foot one.

What time did the package land? We were copying the two meter beacon until 15:12:20 Z and the 28.172 beacon until 15:17:15 Z.

The ten meter beacon was S7 or greater for most of the flight and Q5 until the very last. Using a 1/2 wave vertical about 20 feet off the ground here on ten.

Al, K9SI in eastern Champaign County, IL

4660. Amateur Televsion Quarterly

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-23 16:52:21 UTC
From: Gene Harlan
Topic: 4660 Message: 4660

If you have plans for an article for the Fall issue of Amateur Television Quarterly, it would help me if you can get it in early. It is taking me longer to do things and any help that you can give me will be appreciated. I already have some articles, so thanks to those that have sent them! The official deadline is October 1st, but early is good!

Also, the ATVQ ATV Contest for 2008 is coming to a close, so make sure you get your entries in by September 15th. I hope that those of you that worked the contest will send in an entry even though it might be just a few contacts. Send lots of pictures of the contacts and also of your station.

Have you done any public service events using ATV. The rest of us would like to hear about it.

Thanks to all.

Gene Harlan - WB9MMM
Name Tags by Gene
Harlan Technologies - publisher of Amateur Television Quarterly
http://www.hampubs.com
atvq@...
815-398-2683 - voice
815-398-2688 - fax

4661. Taylor Mesh Network Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-23 21:05:37 UTC
From: L. Paul Verhage
Topic: 4661 Message: 4661
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4662. Re: [GPSL] Taylor Mesh Network Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-23 23:34:38 UTC
From: BASE
Topic: 4661 Message: 4662

Dear Paul,

The full HALO flight with the multi-state launch was on 3 November 2007.

The participating schools were: Taylor University (2 balloons), Valparaiso University, Cedarville University, Iowa State University, College of St. Catherine, the University of Minnesota, and DePauw.

Howard

--- On Sat, 8/23/08, L. Paul Verhage <nearsys@...> wrote:
From: L. Paul Verhage <nearsys@...>
Subject: [GPSL] Taylor Mesh Network Flight
To: gpsl@yahoogroups.com
Date: Saturday, August 23, 2008, 5:05 PM

What day did the Taylor group launch balloons for their sucessful meshnetwork? I was looking over the website and didn't see information like that.

Thanks,
Paul

4663. Re: Garmin GPS18xLVC

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 17:43:57 UTC
From: Ralph Wallio, W0RPK
Topic: 4663 Message: 4663

Thanks Larry ---

This is important information I am forwarding to our GPSL list. When you have time please capture
the boot-up info so we know what new Garmin GPS18LVC firmware version(s) to avoid.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

----- Original Message -----
From: "Larry Prelog" <ke4pm@...>
To: "Ralph Wallio" <w0rpk@...>
Sent: Monday, August 25, 2008 12:32
Subject: Garmin GPS18xLVC

Hey Ralph,
I found out what happened. This is a new GPS and I didn't know that the Garmin gps18x had a different chipset that doesn't work above 60 kft. So have to look for an older gps 18 LVC for the
next launch. I figured we burst between 75 and 80 kft.
Larry

4664. RE: [GPSL] Re: Garmin GPS18xLVC

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 19:21:15 UTC
From: Earl Foster
Topic: 4663 Message: 4664

I just checked with Garmin support and according to them the only limitation above 60,000 ft is dynamics on velocity. All other specifications should be the same as earlier versions of the GPS18. The Tech is going to check with other hardware engineers and get back with me later today. I will post the techs answer when I receive it.

To: ke4pm@...: GPSL@yahoogroups.comFrom: W0RPK@...: Mon, 25 Aug 2008 12:43:57 -0500Subject: [GPSL] Re: Garmin GPS18xLVC

Thanks Larry --- This is important information I am forwarding to our GPSL list. When you have time please capture the boot-up info so we know what new Garmin GPS18LVC firmware version(s) to avoid.TNX es 73 de Ralph Wallio, WØRPKW0RPK@... W0RPK@... W0RPK@...://showcase.netins.net/web/wallio/Hubbert's Peak - The Mother of all Perfect Storms----- Original Message ----- From: "Larry Prelog" <ke4pm@...>To: "Ralph Wallio" <w0rpk@...>Sent: Monday, August 25, 2008 12:32Subject: Garmin GPS18xLVCHey Ralph,I found out what happened. This is a new GPS and I didn't know that the Garmin gps18x had a different chipset that doesn't work above 60 kft. So have to look for an older gps 18 LVC for the next launch. I figured we burst between 75 and 80 kft.Larry

_____
Talk to your Yahoo! Friends via Windows Live Messenger. Find out how.
http://www.windowslive.com/explore/messenger?ocid=TXT_TAGLM_WL_messenger_yahoo_082008

4665. Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 19:34:28 UTC
From: Mark Conner
Topic: 4665 Message: 4665

http://epod.usra.edu/archive/epodviewer.php3?oid=436704

While the colors are quite distored, the clarity of this image is pretty nice. Has anyone looked at what it would take to modify a digital camera to take pictures like this from a balloon?

73 de Mark N9XTN

4666. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 20:11:37 UTC
From: L. Paul Verhage
Topic: 4665 Message: 4666
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4667. RE: [GPSL] Re: Garmin GPS18xLVC

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 20:18:56 UTC
From: Earl Foster
Topic: 4663 Message: 4667

I just received a response from Garmin that states that the GPS18x is good up to 60km

---
I pulled this information from one of our tech sheets for the gps 18x.

2.4. Dynamic Limits
The unit shall provide navigation information with velocities up to 999 knots, with accelerations up to 3Gs, and
altitudes up to 60km.
So 60km = around 196,000 feet?
Please let me know if you have any other questions---

To: gpsl@yahoogroups.com; ke4pm@sbcglobal.netFrom: ebf306@...: Mon, 25 Aug 2008 14:21:15 -0500Subject: RE: [GPSL] Re: Garmin GPS18xLVC

I just checked with Garmin support and according to them the only limitation above 60,000 ft is dynamics on velocity. All other specifications should be the same as earlier versions of the GPS18. The Tech is going to check with other hardware engineers and get back with me later today. I will post the techs answer when I receive it.

To: ke4pm@...: GPSL@yahoogroups.comFrom: W0RPK@...: Mon, 25 Aug 2008 12:43:57 -0500Subject: [GPSL] Re: Garmin GPS18xLVC

Thanks Larry --- This is important information I am forwarding to our GPSL list. When you have time please capture the boot-up info so we know what new Garmin GPS18LVC firmware version(s) to avoid.TNX es 73 de Ralph Wallio, WØRPKW0RPK@... W0RPK@... W0RPK@...://showcase.netins.net/web/wallio/Hubbert's Peak - The Mother of all Perfect Storms----- Original Message ----- From: "Larry Prelog" <ke4pm@...>To: "Ralph Wallio" <w0rpk@...>Sent: Monday, August 25, 2008 12:32Subject: Garmin GPS18xLVCHey Ralph,I found out what happened. This is a new GPS and I didn't know that the Garmin gps18x had a different chipset that doesn't work above 60 kft. So have to look for an older gps 18 LVC for the next launch. I figured we burst between 75 and 80 kft.Larry

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_____
Get ideas on sharing photos from people like you. Find new ways to share.
http://www.windowslive.com/explore/photogallery/posts?ocid=TXT_TAGLM_WL_Photo_Gallery_082008

4668. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 20:50:17 UTC
From: L. Paul Verhage
Topic: 4665 Message: 4668
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4669. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 20:54:08 UTC
From: John C Nordlie
Topic: 4665 Message: 4669

There is a commercial outfit that will change the filters for you on
certain cameras:

http://www.lifepixel.com/

I've tried swapping out the IR filter on a CMOS camera with a
couple layers of exposed color negative film. It works, but
all my pics have a purple tinge to them.

On Mon, 25 Aug 2008, Mark Conner wrote:

> http://epod.usra.edu/archive/epodviewer.php3?oid=436704
>
> While the colors are quite distored, the clarity of this image is pretty nice. Has anyone looked at what it would take to modify a digital camera to take pictures like this from a balloon?
>
> 73 de Mark N9XTN
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>

4670. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-25 21:00:04 UTC
From: Joe
Topic: 4665 Message: 4670

Hi Mark and all,

We here at NSS did this many times with the CCD video cameras (The B&W ones) that have deep infared responce. By using a Infrared mirror on our rotation mirror system.

It looked just fine in the B&W cameras, In a color camera It would suck terribly!

But in the B&W the increase in contrast was tremendous, and the level of penetration of the "Blue Haze" of the Earth below when at max altitude we have yet to make better views.

Joe WB9SBD
Near Space Sciences

L. Paul Verhage wrote:

> I've gotten only one or two good IR pictures. For those I used IR
> film and a yellow filter over the camera. I have experimented with
> removing the IR blocking filter from a cheap digital camera and
> pulished a picture in Nuts and Volts in 2004. I'll see if I can get
> the issue or a copy of the photo.
>
> Paul
>
> On Mon, Aug 25, 2008 at 1:34 PM, Mark Conner <mconner1@...
> <mailto:mconner1@...>> wrote:
>
> http://epod.usra.edu/archive/epodviewer.php3?oid=436704
>
> While the colors are quite distored, the clarity of this image is
> pretty nice. Has anyone looked at what it would take to modify a
> digital camera to take pictures like this from a balloon?
>
> 73 de Mark N9XTN
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>

>
>

4671. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-26 01:04:12 UTC
From: Mike Manes
Topic: 4665 Message: 4671

Hi Mark,

I think you could apply a near-IR filter to a B&W CCD camera. But the RGB filters on the color CCD camera chip only pass those selected wavelengths, so if any image got thru, it would likely be very, very dark. I think the camera used for that image may have been specially adapted for false color in the IR range.

BTW, I've used a pair of cross-polarized plastic polar sheets to produce a 100 density filter for our B&W up-looking ATV camera - it yields a much nicer image of the sunlit balloon.

73 de Mike W5VSI

Mark Conner wrote:
> http://epod.usra.edu/archive/epodviewer.php3?oid=436704
>
> While the colors are quite distored, the clarity of this image is pretty nice. Has anyone looked at what it would take to modify a digital camera to take pictures like this from a balloon?
>
> 73 de Mark N9XTN
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4672. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-26 00:11:25 UTC
From: Mark Conner
Topic: 4665 Message: 4672
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4673. GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-26 10:35:27 UTC
From: Ralph Wallio, W0RPK
Topic: 4673 Message: 4673
Attachments: 1 described; binary payloads are missing from this source WARC

The BARA GPS18LVC altitude freeze anomaly needs further analysis. The entire APRS raw data file is
attached (request this file from me directly if the attachment is deleted). From this file we find
the following after digipeating duplicates, digipeating fields and text are removed:

W8MAI-11>APOTC1:/231330z4206.92N/08551.33WO315/002/A=051537 11.7V 09C
W8MAI-11>APOTC1:/231331z4207.04N/08551.15WO072/011/A=052351 11.7V 09C
W8MAI-11>APOTC1:/231332z4207.03N/08550.96WO326/009/A=053220 11.7V 07C
W8MAI-11>APOTC1:/231334z4207.15N/08550.89WO339/000/A=055025 11.7V 07C
W8MAI-11>APOTC1:/231343z4207.79N/08552.33WO275/032/A=060051 11.6V 01C
W8MAI-11>APOTC1:/231402z4208.39N/08558.79WO241/009/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231405z4208.25N/08600.02WO240/015/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231406z4208.20N/08600.37WO261/015/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231407z4208.25N/08600.72WO259/018/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231408z4208.28N/08600.79WO264/017/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231409z4208.31N/08601.02WO325/014/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231410z4208.46N/08601.34WO291/014/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231411z4208.58N/08601.61WO315/021/A=058295 11.4V-03C
W8MAI-11>APOTC1:/231412z4208.75N/08601.72WO042/003/A=055587 11.4V-05C
W8MAI-11>APOTC1:/231413z4208.80N/08601.73WO146/011/A=053111 11.4V-05C
W8MAI-11>APOTC1:/231414z4208.92N/08601.59WO037/006/A=050549 11.4V-05C

Reported altitude was frozen from at or before 1343z (no records are available between 1334z and
1343z [?]), until 1410z. During this interval GPS derived time-stamps, latitudes, longitudes,
courses and speeds changed as expected.

It is difficult to explain this -except- by a GPS receiver altitude limit. Perhaps Garmin intended
to continue with longstanding altitude v velocity flight dynamics limits -but- their new coding is
in error (this was a very new GPS18LVC receiver)[?]

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4674. RE: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-26 13:09:47 UTC
From: Earl Foster
Topic: 4673 Message: 4674

Well, I am flying a brand new GPS18xLVC this weekend so I guess we find out if the code freezes the gps. I burned up my GPS18 a couple of weeks when I was getting ready for this flight and had to order the new "X" model. That was the reason I contacted Gramin support yesterday. I had an immediate need to know. Hope you are wrong.

> From: W0RPK@...> To: GPSL@yahoogroups.com> CC: ke4pm@...; ebf306@...> Subject: GPS18LVC altitude freeze at 60kft> Date: Tue, 26 Aug 2008 05:35:27 -0500> > The BARA GPS18LVC altitude freeze anomaly needs further analysis. The entire APRS raw data file is > attached (request this file from me directly if the attachment is deleted). From this file we find > the following after digipeating duplicates, digipeating fields and text are removed:> >
W8MAI-11>APOTC1:/231330z4206.92N/08551.33WO315/002/A=051537 11.7V 09C>
W8MAI-11>APOTC1:/231331z4207.04N/08551.15WO072/011/A=052351 11.7V 09C>
W8MAI-11>APOTC1:/231332z4207.03N/08550.96WO326/009/A=053220 11.7V 07C>
W8MAI-11>APOTC1:/231334z4207.15N/08550.89WO339/000/A=055025 11.7V 07C>
W8MAI-11>APOTC1:/231343z4207.79N/08552.33WO275/032/A=060051 11.6V 01C>
W8MAI-11>APOTC1:/231402z4208.39N/08558.79WO241/009/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231405z4208.25N/08600.02WO240/015/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231406z4208.20N/08600.37WO261/015/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231407z4208.25N/08600.72WO259/018/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231408z4208.28N/08600.79WO264/017/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231409z4208.31N/08601.02WO325/014/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231410z4208.46N/08601.34WO291/014/A=060051 11.4V-03C>
W8MAI-11>APOTC1:/231411z4208.58N/08601.61WO315/021/A=058295 11.4V-03C>
W8MAI-11>APOTC1:/231412z4208.75N/08601.72WO042/003/A=055587 11.4V-05C>
W8MAI-11>APOTC1:/231413z4208.80N/08601.73WO146/011/A=053111 11.4V-05C>
W8MAI-11>APOTC1:/231414z4208.92N/08601.59WO037/006/A=050549 11.4V-05C> > Reported altitude was frozen from at or before 1343z (no records are available between 1334z and > 1343z [?]), until 1410z. During this interval GPS derived time-stamps, latitudes, longitudes, > courses and speeds changed as expected.> > It is difficult to explain this -except- by a GPS receiver altitude limit. Perhaps Garmin intended > to continue with longstanding altitude v velocity flight dynamics limits -but- their new coding is > in error (this was a very new GPS18LVC receiver)[?]> > TNX es 73 de Ralph Wallio, WØRPK> W0RPK@... W0RPK@... W0RPK@amsat.org> http://showcase.netins.net/web/wallio/> Hubbert's Peak - The Mother of all Perfect Storms> >

Talk to your Yahoo! Friends via Windows Live Messenger. Find out how.
http://www.windowslive.com/explore/messenger?ocid=TXT_TAGLM_WL_messenger_yahoo_082008

4675. Re: [GPSL] Near-infrared imaging with digital cameras

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-26 15:20:53 UTC
From: John C Nordlie
Topic: 4665 Message: 4675

Hi Mark.

Yeah, that's pretty steep for the conversion, though the
resulting images do look nice.

My DIY NIR conversion was done on a cheap CMOS-chip camera. I ended
up destroying the lens when I took it apart, but had a webcam lens with
the same thread in my junk box. The overexposed color negative film
makes a visible light blocking filter which is transparent to NIR light.

The webcam optics are different than the original lens, so the images
aren't all that stellar, but if you're interested in some results, I
have some images posted on my website:

http://blizzard.rwic.und.edu/~nordlie/pictures/infrared/

The purple ones are unmodified, the third set I just pulled the images
into a paint program and changed them to greyscale. The focus is
off in the third set as well, the first two are better.

Some indoor shots show plants and algae (in the bottles) to see how
they appear in NIR. These were taken with the camera's built-in
flash, since my CF room lights put out very little NIR. All the
outdoor shots were sans flash.

I have no plans to fly this camera on a balloon, since the camera
itself (Digital Concepts 4 megapixel) is very sensitive to shake
during exposure. I tried it on a model airplane application and
the results were very poor. The NIR conversion in this case was
just a proof-of-concept.

On Mon, 25 Aug 2008, Mark Conner wrote:

> Hi John,
>
> This is just what I was looking for, though at a price a bit higher than I
> want to pay. It appears for the price of a PowerShot G-series plus about
> $350 I can have an NIR balloon camera. Or for somewhere over $100 I can
> test my camera repair skills and try to do it myself. Don't think either
> one will be the answer.
>
> 73 de Mark N9XTN
>
> On Mon, Aug 25, 2008 at 3:54 PM, John C Nordlie <nordlie@...>wrote:
>
>> There is a commercial outfit that will change the filters for you on
>> certain cameras:

>>
>> http://www.lifepixel.com/
>>
>> I've tried swapping out the IR filter on a CMOS camera with a
>> couple layers of exposed color negative film. It works, but
>> all my pics have a purple tinge to them.
>>
>> On Mon, 25 Aug 2008, Mark Conner wrote:
>>
>>> http://epod.usra.edu/archive/epodviewer.php3?oid=436704
>>>
>>> While the colors are quite distored, the clarity of this image is pretty
>> nice. Has anyone looked at what it would take to modify a digital camera to
>> take pictures like this from a balloon?
>>>
>>> 73 de Mark N9XTN
>>>
>>> ------------------------------------
>>>
>>> Yahoo! Groups Links
>>>
>>>
>>>
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>> ------------------------------------
>>
>> Yahoo! Groups Links
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>>
>>
>>
>

4676. IR Stuff

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-27 15:13:02 UTC
From: Joe
Topic: 4676 Message: 4676

Here is a interesting page guys,

http://www.astrosurf.com/~buil/baader/eval_us.htm

Joe WB9SBD
Near Space Sciences

4677. Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-27 15:51:05 UTC
From: Ralph Wallio, W0RPK
Topic: 4677 Message: 4677

It appears we need to get past Garmin's product support department with this problem. Anyone who
has internal Garmin contacts please respond here and then bring all this to Garmin's attention at a
level that is prepared to understand the problem.

All previous GPS18 equipped ARHAB flights have been successful above 60kft. This is the first
flight that used a new GPS18x replacement model and altitude froze at 60kft. There appears to be a
software issue that does not meet Garmin specifications.

Here is the unit information from Larry Prelog, KE4PM, with the BARA ARHAB project:

----- Original Message -----
From: "Larry Prelog" <ke4pm@...>
To: "Ralph Wallio, W0RPK" <W0RPK@...>
Sent: Wednesday, August 27, 2008 07:10
Subject: Re: GPS18LVC altitude freeze at 60kft

Hey Ralph,
Here is the info on the Garmin GPS18x LVC.
$PGRMT,GPS 18x-LVC software ver. 2.30,,,,,,,,*6E
Model No. 010-00321-36
Ser. No. 19S002775
Larry

Here is the APRS data showing the altitude freeze:

W8MAI-11>APOTC1:/231330z4206.92N/08551.33WO315/002/A=051537 11.7V 09C
W8MAI-11>APOTC1:/231331z4207.04N/08551.15WO072/011/A=052351 11.7V 09C
W8MAI-11>APOTC1:/231332z4207.03N/08550.96WO326/009/A=053220 11.7V 07C
W8MAI-11>APOTC1:/231334z4207.15N/08550.89WO339/000/A=055025 11.7V 07C
W8MAI-11>APOTC1:/231343z4207.79N/08552.33WO275/032/A=060051 11.6V 01C
W8MAI-11>APOTC1:/231402z4208.39N/08558.79WO241/009/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231405z4208.25N/08600.02WO240/015/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231406z4208.20N/08600.37WO261/015/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231407z4208.25N/08600.72WO259/018/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231408z4208.28N/08600.79WO264/017/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231409z4208.31N/08601.02WO325/014/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231410z4208.46N/08601.34WO291/014/A=060051 11.4V-03C
W8MAI-11>APOTC1:/231411z4208.58N/08601.61WO315/021/A=058295 11.4V-03C
W8MAI-11>APOTC1:/231412z4208.75N/08601.72WO042/003/A=055587 11.4V-05C
W8MAI-11>APOTC1:/231413z4208.80N/08601.73WO146/011/A=053111 11.4V-05C
W8MAI-11>APOTC1:/231414z4208.92N/08601.59WO037/006/A=050549 11.4V-05C

(The entire APRS raw data file is available.)

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4679. RE: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-08-30 01:55:27 UTC
From: Earl Foster
Topic: 4677 Message: 4679

I haven't been able to get any more responses from the OEM support team so I am glad someone else has made better progress. In light of the new information I have swapped out my GPS18xLVC with a GPS15. The GPS15 use 3.3VDC so I ended up using one of my own hitchhiker boards to make a new PCB tonight.

Launch is scheduled for Sunday morning at 6:30AM.

73s
Earl
www.hapb.net

To: GPSL@yahoogroups.comFrom: w0jrt@...: Fri, 29 Aug 2008 19:09:24 +0000Subject: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

I've discussed this issue with the development team. They've beenable to reproduce the problem with a GPS simulator and are lookinginto it.-Jerome--- In GPSL@yahoogroups.com, "Ralph Wallio, W0RPK" <W0RPK@...> wrote:>> It appears we need to get past Garmin's product support departmentwith this problem. Anyone who > has internal Garmin contacts please respond here and then bring allthis to Garmin's attention at a > level that is prepared to understand the problem.

_____
Talk to your Yahoo! Friends via Windows Live Messenger. Find out how.
http://www.windowslive.com/explore/messenger?ocid=TXT_TAGLM_WL_messenger_yahoo_082008

4680. High-altitude volcanic plume over US

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-02 15:33:27 UTC
From: Mark Conner
Topic: 4680 Message: 4680

Thought some of you might be interested in this. The plumes mentioned below are at about 60,000 ft from an Alaskan volcano that erupted last month. It would be interesting to get photos from a balloon around this layer, to see if it's more visible when looking sideways into the layer instead of up/down through it like satellites or ground-based instruments.

73 de Mark N9XTN

-----Original Message-----
From: volcanicclouds@yahoogroups.com [mailto:volcanicclouds@yahoogroups.com] On Behalf Of Scott Bachmeier
Sent: Friday, August 29, 2008 5:38 PM
To: volcanicclouds@yahoogroups.com
Subject: [volcanicclouds] Kasatochi plume still seen over Wisconsin (way up there at 19 km) ??

If this is still the Kasatochi plume, then that beast has
tenacious persistence!

----- begin forwarded message -----

Quick thing of mention that might interest you.

For about a week, there have been 2 aerosol layers at 17
and 19km over the AOS building in Madison. The webpage
thumbnails only go up to 15km, but if you customize the
image to a higher altitude range, you can see the layers.

Ed firmly believes what the HSRL is showing is real, which
reveals low depolarization at a high altitude, with
indications of higher depolarization (5%, but significant)
at the base of it. The idea is that there would have to be
droplets in there with very small particles of ash that
managed to stay aloft, and some traces of sulfuric acid,
which Ed explains is expected to increase with time as the
ash would decrease.

I hope I managed to paraphrase what Ed said.

Here's a link to a 6-hour shot. The 17km layer has faded
some, but the 19km is still sharp.

http://lidar.ssec.wisc.edu/cgi-bin/util/loadmatlabfigs.cgi?clientid=ba7b02515a7e678762ec79c1 <http://lidar.ssec.wisc.edu/cgi-bin/util/loadmatlabfigs.cgi?clientid=ba7b02515a7e678762ec79c1>

http://tinyurl.com/5hhjmu <http://tinyurl.com/5hhjmu>

Cheers.

--
Joe Garcia
SSEC

4681. Re: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-02 21:15:09 UTC
From: Harry M
Topic: 4677 Message: 4681

Anyone have any more info on the GPS 18/18X? Those of you that have the 18X, what's the part number on the unit?

On gpscity.com there is a note under "Garmin OEM18 LVC Part Number Update:" that reads... "This item was formally part number 010-00321-06. When Garmin upgraded the unit to become RoHS compliant, the part number was changed to 010-00321-56"

I see no reference on the Garmin site to the change in part number. I do howerver see a software update/download for v2.70. I wonder if this will work on the 18X?

72 Harry

4682. Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-02 21:57:15 UTC
From: w0jrt
Topic: 4677 Message: 4682

That note is correct: 010-00321-06 and 010-00321-56 are both a GPS18 LVC, but the -56 is RoHS compliant.

The GPS18x LVC is part number 010-00321-36.

The software for the two models is different. The latest version of software for the GPS18 is 3.20. The latest version of software for the GPS18x is 2.70.

-Jerome, W0JRT

--- In GPSL@yahoogroups.com, "Harry M" <hhm_74115@...> wrote:
>
> Anyone have any more info on the GPS 18/18X? Those of you that have the 18X, what's the part number on the unit?
>
> On gpscity.com there is a note under "Garmin OEM18 LVC Part Number Update:" that reads...
> "This item was formally part number 010-00321-06. When Garmin upgraded the unit to become RoHS compliant, the part number was changed to 010-00321-56"
>
> I see no reference on the Garmin site to the change in part number. I do howerver see a software update/download for v2.70. I wonder if this will work on the 18X?
>
>
> 72 Harry
>

4683. RE: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-02 22:45:13 UTC
From: Earl Foster
Topic: 4677 Message: 4683

Any more information on the altitude question with the GPS18x?

To: GPSL@yahoogroups.comFrom: w0jrt@...: Tue, 2 Sep 2008 21:57:15 +0000Subject: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

That note is correct: 010-00321-06 and 010-00321-56 are both a GPS18LVC, but the -56 is RoHS compliant.The GPS18x LVC is part number 010-00321-36.The software for the two models is different. The latest version ofsoftware for the GPS18 is 3.20. The latest version of software for theGPS18x is 2.70.-Jerome, W0JRT--- In GPSL@yahoogroups.com, "Harry M" <hhm_74115@...> wrote:>> Anyone have any more info on the GPS 18/18X? Those of you that havethe 18X, what's the part number on the unit?> > On gpscity.com there is a note under "Garmin OEM18 LVC Part NumberUpdate:" that reads...> "This item was formally part number 010-00321-06. When Garminupgraded the unit to become RoHS compliant, the part number waschanged to 010-00321-56"> > I see no reference on the Garmin site to the change in part number.I do howerver see a software update/download for v2.70. I wonder ifthis will work on the 18X?> > > 72 Harry>

_____
Get ideas on sharing photos from people like you. Find new ways to share.
http://www.windowslive.com/explore/photogallery/posts?ocid=TXT_TAGLM_WL_Photo_Gallery_082008

4685. Garmin GPS 15H-W

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-04 21:12:28 UTC
From: k6rpt
Topic: 4685 Message: 4685

Has any one used a Garmin GPS 15H-W.
It operates from 8 to 40 volts (66 mA nominal), weighs around 15 grams,
and works above 60,000 feet.

4686. RE: [GPSL] Garmin GPS 15H-W

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-04 22:52:17 UTC
From: Meer, Stephen
Topic: 4685 Message: 4686

EOSS uses a GPS 15H as the GPS source for the K0SCC B-LAN. The unit has flown 6 times and worked flawlessly. We take advantage of the units sentence programmability and fly it with a moderate gain patch antenna. It is quick lock and I have never seen it loose lock even during post burst chaos.

/s/SM2 K0SCC

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of k6rpt
Sent: Thursday, September 04, 2008 3:12 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Garmin GPS 15H-W

Has any one used a Garmin GPS 15H-W.
It operates from 8 to 40 volts (66 mA nominal), weighs around 15 grams, and works above 60,000 feet.

4687. Canon PowerShot A560

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-04 23:58:05 UTC
From: k6rpt
Topic: 4687 Message: 4687

I'm looking for CHKD build for a Canon PowerShot A560, for auto
Continuous picture mode.

4688. Re: [GPSL] Canon PowerShot A560

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-05 14:51:06 UTC
From: Pete Lilja
Topic: 4687 Message: 4688

I'm not sure what you're asking...the A560 is a ported (compatible) camera and there are intervalometer scripts on the wiki: http://chdk.wikia.com/wiki/Main_Page You should be able to find what you're needing there.

Pete

----- Original Message -----
From: k6rpt
To: GPSL@yahoogroups.com
Sent: Thursday, September 04, 2008 6:58 PM
Subject: [GPSL] Canon PowerShot A560

I'm looking for CHKD build for a Canon PowerShot A560, for auto
Continuous picture mode.

4690. Re: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-06 01:27:24 UTC
From: Joe
Topic: 4677 Message: 4690

if / whe this up-date is made available will someone stuff it in a
folder on the group site?

Joe

w0jrt wrote:

>I received an e-mail today saying that they have a fix for this and it
>should appear in the next software update. They didn't say when that
>will be so we'll just have to keep an eye on the web site.
>
>--- In GPSL@yahoogroups.com, Earl Foster <ebf306@...> wrote:
>
>
>>Any more information on the altitude question with the GPS18x?
>>
>>
>
>
>
>------------------------------------
>
>Yahoo! Groups Links
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>

4691. RE: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-06 03:01:42 UTC
From: Earl Foster
Topic: 4677 Message: 4691

Cool. When the update is available, if somene else has posted it, I will post it to our yahoo group site. Thanks for the update and to Garmin. Our high altitude ballooning is such a specialized field that it warrents Kuidos to Garmin.

Thanks for the update.

To: GPSL@yahoogroups.comFrom: w0jrt@...: Sat, 6 Sep 2008 01:14:39 +0000Subject: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

I received an e-mail today saying that they have a fix for this and itshould appear in the next software update. They didn't say when thatwill be so we'll just have to keep an eye on the web site.--- In GPSL@yahoogroups.com, Earl Foster <ebf306@...> wrote:>> Any more information on the altitude question with the GPS18x?

_____
Get more out of the Web. Learn 10 hidden secrets of Windows Live.
http://windowslive.com/connect/post/jamiethomson.spaces.live.com-Blog-cns!550F681DAD532637!5295.entry?ocid=TXT_TAGLM_WL_domore_092008

4692. Re: [GPSL] GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-06 10:32:10 UTC
From: Barry L. Lankford
Topic: 4673 Message: 4692

Ralph,

Are you asking about the 60kft altitude limit with regard to the GPS18LVC or the GPS18xLVC? I ask because in some other Garmin series, such as the GPSMAP60C and GPSMAP76C, the addition of the lower-case "x" in the model number indicates that the GPSMAP60Cx and GPSMAP76Cx no longer uses Garmin's own GPS engine chip set but uses the SiRF-III chip set instead. The SiRF-III chip set is listed in your own "GPS RECEIVERS vs 60KFT" page as failing the 60kft test (see Holux GR-213, Byonics GPS2 and Notes [1] & [8]).

I can't say for certain that the lower-case "x" in the GPS18xLVC model means the same thing (i.e., that it uses the SiRF-II chip set) as it does in the GPSMAP60Cx and GPSMAP76Cx models, but it sounds very much like a "clue" to me! The "x" models of the GPSMAP60Cx and GPSMAP76Cx exhibit markedly better sensitivity than the older non-"x" models. Perhaps this characteristic is also be evident in the GPS18xLVC as well. That'd be another clue. Unless Garmin confirms one way or the other, clues may be all we'll get.

Interestingly, the GPSMAP60Cx and GPSMAP76Cx models with the SiRF-III chip set allow separate update of the firmwares of both the main (display) processor and the GPS engine processor. If Garmin does indeed supply a firmware update that fixes the GPS18xLVC, I wonder if it'll be firmware that updates the SiRF-III GPS engine. I'm not sure what ramifications that'd have, but it might be interesting to speculate. Maybe other hockey puck GPS of other brands using the SiRF-III chip set may be salvageable for ARHAB use.

Sorry if this is old news. I tried to look through all the posts on this thread and didn't see anything about the possible differences between the GPS18 vs. GPS18x issue. I didn't see anything, so I thought I'd pass this possible explanation on.

Barry N4MSJ

w0jrt wrote:
> I received an e-mail today saying that they have a fix for this and it
> should appear in the next software update. They didn't say when that
> will be so we'll just have to keep an eye on the web site.
>
> --- In GPSL@yahoogroups.com, Earl Foster <ebf306@...> wrote:
>> Any more information on the altitude question with the GPS18x?
>

Ralph Wallio, W0RPK wrote:
> The BARA GPS18LVC altitude freeze anomaly needs further analysis. The entire APRS raw data file is

> attached (request this file from me directly if the attachment is deleted). From this file we find
> the following after digipeating duplicates, digipeating fields and text are removed:
>
> W8MAI-11>APOTC1:/231330z4206.92N/08551.33WO315/002/A=051537 11.7V 09C
> W8MAI-11>APOTC1:/231331z4207.04N/08551.15WO072/011/A=052351 11.7V 09C
> W8MAI-11>APOTC1:/231332z4207.03N/08550.96WO326/009/A=053220 11.7V 07C
> W8MAI-11>APOTC1:/231334z4207.15N/08550.89WO339/000/A=055025 11.7V 07C
> W8MAI-11>APOTC1:/231343z4207.79N/08552.33WO275/032/A=060051 11.6V 01C
> W8MAI-11>APOTC1:/231402z4208.39N/08558.79WO241/009/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231405z4208.25N/08600.02WO240/015/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231406z4208.20N/08600.37WO261/015/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231407z4208.25N/08600.72WO259/018/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231408z4208.28N/08600.79WO264/017/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231409z4208.31N/08601.02WO325/014/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231410z4208.46N/08601.34WO291/014/A=060051 11.4V-03C
> W8MAI-11>APOTC1:/231411z4208.58N/08601.61WO315/021/A=058295 11.4V-03C
> W8MAI-11>APOTC1:/231412z4208.75N/08601.72WO042/003/A=055587 11.4V-05C
> W8MAI-11>APOTC1:/231413z4208.80N/08601.73WO146/011/A=053111 11.4V-05C
> W8MAI-11>APOTC1:/231414z4208.92N/08601.59WO037/006/A=050549 11.4V-05C
>
> Reported altitude was frozen from at or before 1343z (no records are available between 1334z and
> 1343z [?]), until 1410z. During this interval GPS derived time-stamps, latitudes, longitudes,
> courses and speeds changed as expected.
>
> It is difficult to explain this -except- by a GPS receiver altitude limit. Perhaps Garmin intended
> to continue with longstanding altitude v velocity flight dynamics limits -but- their new coding is
> in error (this was a very new GPS18LVC receiver)[?]
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@netINS.net W0RPK@... W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>

4693. Re: [GPSL] GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-06 11:24:17 UTC
From: Ralph Wallio, W0RPK
Topic: 4673 Message: 4693

Thanks Barry --

Regarding SiRF, it appears -I and -II OEM chip-sets were hard-coded to limit operation to below
60kft but -III chip-set code allows receiver designers to make the decision. We have no reports
of -I or -II based receivers working above 60kft. We have reports for -III based receivers both
working -and- not working above 60kft so display/NMEA processing code differences appear to be in
play.

It is my understanding that GARMIN GPS18x-series receivers are replacing the GPS18-series.

During a quick search I am not finding any information which tells us the new GARMIN GPS18x-series
is based on SiRF-III chip-sets.

Jerome, W0JRT, may have more information.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4694. Filtering Revisited..

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-07 02:22:08 UTC
From: Joe
Topic: 4694 Message: 4694

Hi All,,

Been doing a lot of research, and after learning about the long wave filter and what it takes to remove, (not fun) plus how it really messes up the color balamce.

I was in a Astrophoto group discussing our blue haze problem. And someone mentioned what we really have is a camera that has a deep blue filter in the light path between the camera and the ground.

And in fact quite true.

They suggested we try various different White Balance settings, or if we want to go really radical, and who is flying soon with one of these cameras to test,,

they say it will screw up the pic's while close to the ground but at higher heights it should neutralize the natural blue filter.

how to do it

is it set the camera to do a custom white balance setting.

But instead of setting the camera in front of a white card,,, do it into a deep blue cloudless sky. this should skew the color balance way over and make the blue a non issue,

or so they think..

what's anyone here think?

Joe WB9SBD
Near Space Sciences

4695. Re: [GPSL] Filtering Revisited..

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-07 16:25:40 UTC
From: Mark Conner
Topic: 4694 Message: 4695
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4696. Re: [GPSL] Filtering Revisited..

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-07 16:57:35 UTC
From: Joe
Topic: 4694 Message: 4696

agreed and they thought that RAW was a better way too but i'm not too
sure how to set up the camera in that mode, possible?

and what is the extention of the image file? . what

Mark Conner wrote:

> A better way to go might be to capture RAW images and do the color
> correction post-flight. You can do this to some extent with JPEG
> files and PaintShopPro, but with only 8 bits per channel (R/G/B)
> you're limited as to how much correction you can get. The RAW files
> contain full bit depth (10? 12?) and you don't have the JPEG
> compression of the color information too.
>
> Down side is that RAW files occupy much more card space than JPEG, but
> you can buy your way out of that limitation.
>
> 73 de Mark N9XTN
>
> On Sat, Sep 6, 2008 at 9:22 PM, Joe <nss@... <mailto:nss@...>>
> wrote:
>
> Hi All,,
>
> Been doing a lot of research, and after learning about the long wave
> filter and what it takes to remove, (not fun) plus how it really
> messes up the color balamce.
>
> I was in a Astrophoto group discussing our blue haze problem. And
> someone mentioned what we really have is a camera that has a deep blue
> filter in the light path between the camera and the ground.
>
> And in fact quite true.
>
> They suggested we try various different White Balance settings,
> or if
> we want to go really radical, and who is flying soon with one of these
> cameras to test,,
>
> they say it will screw up the pic's while close to the ground but at
> higher heights it should neutralize the natural blue filter.
>
> how to do it
>
> is it set the camera to do a custom white balance setting.
>

> But instead of setting the camera in front of a white card,,, do it
> into a deep blue cloudless sky. this should skew the color
> balance way
> over and make the blue a non issue,
>
> or so they think..
>
> what's anyone here think?
>
> Joe WB9SBD
> Near Space Sciences
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
>

4697. Any suggestions?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-08 23:17:24 UTC
From: k6rpt
Topic: 4697 Message: 4697

I'm very interested in doing my first ballooning project. After researching equipment and software, I have come up with a list of payload equipment: Micro-Trak 8000 FA, Garmin GPS 15H-W, Canon A560. For ground tracking: Tiny Track 4, APRSPoint software. Any suggestions?

4699. Re: [GPSL] Re: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-09 02:18:46 UTC
From: Joe
Topic: 4673 Message: 4699

i recebntly guttred ine if these and my numbers arent anything like
these, this is what i have

On the antenna it has
A16
822

and a barcode sticker says
726 3463980358 52
and hand written in red ink is 5486
any ideas as to what any of this means?

Joe
w0jrt wrote:

>--- In GPSL@yahoogroups.com, "Barry L. Lankford" <BarryL@...> wrote:
>
>
>>or the GPS18xLVC? I ask because in some other Garmin series, such
>>
>>
>as the
>
>
>>GPSMAP60C and GPSMAP76C, the addition of the lower-case "x" in the
>>
>>
>model
>
>
>>number indicates that the GPSMAP60Cx and GPSMAP76Cx no longer uses
>>
>>
>Garmin's
>
>
>>own GPS engine chip set but uses the SiRF-III chip set instead. The
>>
>>
>
>The lower-case "x" generally means it uses a more sensitive GPS chip
>set but not necessarily a SiRFstar-III, although in some models it may
>be. If you crack open a GPS18xLVC you'll find it's not SiRFstar-III.
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>Yahoo! Groups Links
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4700. Re: [GPSL] Any suggestions?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-09 04:45:32 UTC
From: Mike Manes
Topic: 4697 Message: 4700

Strongly recommend that you fly a 100% redundant DF beacon in case APRS fails.
Rule #1 in ballooning is Don't give Murphy an Even Break.
73 de Mike W5VSI
CTO EOSS

k6rpt wrote:
> I'm very interested in doing my first ballooning project. After
> researching equipment and software, I have come up with a list of
> payload equipment: Micro-Trak 8000 FA, Garmin GPS 15H-W, Canon A560.
> For ground tracking: Tiny Track 4, APRSPoint software. Any suggestions?
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4701. Re: [GPSL] Any suggestions?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-09 14:05:39 UTC
From: Mark Conner
Topic: 4697 Message: 4701

You may want a KPC-3 for data reception. The KPC-3 will pick up packets other units like the TinyTrak4 and Tracker2 will miss. When optimized, the TT4/T2 will get 80-90% of the data a KPC-3 will get, but it's that other 10% that might be important to you.

You won't need the latest version for ground tracking - I've seen version 6 KPC-3s on eBay for about $60 or so. Later versions (8.3+) will usually be over $100 (new is about $180).

73 de Mark N9XTN

----- Original Message -----
From: k6rpt <Ron@...>
Date: Monday, September 8, 2008 6:17 pm
Subject: [GPSL] Any suggestions?
To: GPSL@yahoogroups.com

> I'm very interested in doing my first ballooning project. After
> researching equipment and software, I have come up with a list of
> payload equipment: Micro-Trak 8000 FA, Garmin GPS 15H-W, Canon
> A560.
> For ground tracking: Tiny Track 4, APRSPoint software. Any
> suggestions?
>
> ------------------------------------

4702. Re: [GPSL] Any suggestions?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-09 16:30:24 UTC
From: Dan Wietchy
Topic: 4697 Message: 4702

I agree with Mike. We flew a single transmitter on our last balloon launch and Mr. Murphy hit us with a direct attack; having the only transmitter fail within minutes of the launch was very disappointing. I also agree that a KPC3+ at the ground tracking station gives you much more ability and sensitivity.

I'd also recommend more than one tracking station with several radios involved in the tracking. The more people you can get involved the better.

Dan
BEAR Balloon - www.bear.437am.com

--- On Mon, 9/8/08, Mike Manes <mrmanes@...> wrote:
From: Mike Manes <mrmanes@...m>
Subject: Re: [GPSL] Any suggestions?
To: GPSL@yahoogroups.com
Date: Monday, September 8, 2008, 8:45 PM

Strongly recommend that you fly a 100% redundant DF beacon in case APRS fails.

Rule #1 in ballooning is Don't give Murphy an Even Break.

73 de Mike W5VSI

CTO EOSS

k6rpt wrote:

> I'm very interested in doing my first ballooning project. After

> researching equipment and software, I have come up with a list of

> payload equipment: Micro-Trak 8000 FA, Garmin GPS 15H-W, Canon A560.

> For ground tracking: Tiny Track 4, APRSPoint software. Any suggestions?

>

>

> ------------ --------- --------- ------

>

> Yahoo! Groups Links

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>

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

4703. Thanks for the suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-10 15:57:20 UTC
From: k6rpt
Topic: 4703 Message: 4703

Thanks for the suggestions. For ground tracking: I'm going with the KPC-3+ (Thanks Mark) and APRSPoint software? Is this the best APRS tracking software? I'm rethinking the payload, is two APRS transmitters a way to go, one on VHF and UHF? Can I run two on VHF? I will try to get some people to help with ground tracking.

4704. beacon suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-10 16:43:14 UTC
From: Dan Wietchy
Topic: 4703 Message: 4704

We run 2 beacons for the balloon, one on the standard US APRS freq 144.39 and the secondary on 144.70, although any other freq would work too. I tried to pick a local freq that was quiet.

For tracking, I engaged the local ham radio operators of which several had full time APRS receiving stations already operational. So we had 4 ham radio ops receiving the 144.39 signal from launch thru touchdown while 3 temporary ground tracking stations captured the 144.70 signal. With that many ops monitoring, it was nice to be able to in-fill the data gaps and believe me - there always seems to be data gaps.

Dan

--- On Wed, 9/10/08, k6rpt <Ron@...> wrote:
From: k6rpt <Ron@...>
Subject: [GPSL] Thanks for the suggestions
To: GPSL@yahoogroups.com
Date: Wednesday, September 10, 2008, 7:57 AM

Thanks for the suggestions. For ground tracking: I'm going with the KPC-

3+ (Thanks Mark) and APRSPoint software? Is this the best APRS tracking

software? I'm rethinking the payload, is two APRS transmitters a way to

go, one on VHF and UHF? Can I run two on VHF? I will try to get some

people to help with ground tracking.

4705. Re: [GPSL] Thanks for the suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-10 22:43:31 UTC
From: BASE
Topic: 4703 Message: 4705

Others in the group have had radio frequency interference problems with multiple transmitters in a single pod. We fly each transmitter in a separate pod (each with its own GPS).

Howard

--- On Wed, 9/10/08, k6rpt <Ron@MySystem.com> wrote:
From: k6rpt <Ron@...>
Subject: [GPSL] Thanks for the suggestions
To: GPSL@yahoogroups.com
Date: Wednesday, September 10, 2008, 11:57 AM

Thanks for the suggestions. For ground tracking: I'm going with the KPC-

3+ (Thanks Mark) and APRSPoint software? Is this the best APRS tracking

software? I'm rethinking the payload, is two APRS transmitters a way to

go, one on VHF and UHF? Can I run two on VHF? I will try to get some

people to help with ground tracking.

4706. Re: [GPSL] Thanks for the suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-11 23:41:19 UTC
From: Mike Manes
Topic: 4703 Message: 4706

A DF beacon running 30s on and 30s QRT is easier to hear and track when the payload's on the ground or far enough out that the packets are too weak to decode - a packet burst is too brief to DF accurately. Both can be on VHF, but on different freqs so you can use the same beam to copy the APRS in flight and to DF it on the deck. Of course, if you have trackers in the field at launch, then they could very likely move to a position where they can observe the descent and landing - then the beacons are moot!

73 de Mike W5VSI

k6rpt wrote:
> Thanks for the suggestions. For ground tracking: I'm going with the KPC-
> 3+ (Thanks Mark) and APRSPoint software? Is this the best APRS tracking
> software? I'm rethinking the payload, is two APRS transmitters a way to
> go, one on VHF and UHF? Can I run two on VHF? I will try to get some
> people to help with ground tracking.
>
>
> ------------------------------------
>
> Yahoo! Groups Links
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4707. BASE 29 - completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-12 02:01:08 UTC
From: BASE
Topic: 4707 Message: 4707

BASE 29 was successfully completed today.

Flight summary: Launch at 14:57 UTC Burst at 98 kft
Landing was 55 miles at 98 degrees from launch site on DePauw campus. Landing was just west of Shelbyville, Indiana.

Joined in tracking and recovery by Ron Malinowski (N9QGS).

Landing was in a field that had been flooded in the June '08 event in south central Indiana. The unusable field was covered in weeds that reached ten foot tall. Payloads were located about 150 feet into the tall weeds. I'd rather have been in the corn, at least that is planted in rows.

Additional details will be posted on www.depauw.edu/acad/physics/base

Thanks for your support,
Howard

4708. Field Day Super Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-14 17:27:10 UTC
From: L. Paul Verhage
Topic: 4708 Message: 4708
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4709. Cambridge University (UK) high altitude ballooning program

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-14 17:58:40 UTC
From: Ralph Wallio, W0RPK
Topic: 4709 Message: 4709

See

http://www.cuspaceflight.co.uk

http://spacenear.us/tracker/

http://www.nivnac.co.uk/files/HAPSD_NOVA8/HAPS-D_pan1_quarter.jpg

Contact:

Ed Moore
Churchill College, Cambridge, CB3 0DS
eam52@...
Cambridge University Spaceflight

They are using unlicensed 70cm +4dBm telemetry links. Use of Amateur Radio is not allowed by
regulators but we are working on solutions that would allow their flight achievements to be submitted to our ARHAB Records.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4710. Re: [GPSL] Cambridge University (UK) high altitude ballooning program

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-14 18:18:18 UTC
From: Harry M
Topic: 4709 Message: 4710

If it's not Amateur Radio the only details to work out are getting on the
HAM bands.
If it's not HAM it shouldn't be allowed in the ARHAB records.

73 Harry KC5TRB

>They are using unlicensed 70cm +4dBm telemetry links. Use of Amateur Radio
>is not allowed by regulators but we are working on solutions that would
>allow their flight achievements to be submitted to our ARHAB Records.

4711. Re: [GPSL] Cambridge University (UK) high altitude ballooning program

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 05:32:24 UTC
From: Mike Manes
Topic: 4709 Message: 4711

Blimey, mate! I attended 2nd grade at Milton Road School in Cambridge in 1950 while my dad was stationed at Mildenhall, and where I learned long division in mixed number bases (pounds, shillings and pence). We lived on Asham Rd, just a few blocks from the school. I'm told that I'd developed a rawthah good Queen's English accent there, which vaporized like a summer rain on a Tucson sidewalk when dad transferred to Ft Sam Houston in San Antonio, TX.

See why I talk funny?

It's my understanding that the UK's equivalent to our FAA forbids the use of any non-certified radio transmitters aboard aircraft, not unlike our own prohibition aboard airliners. But the UK applies the same rule to unmanned balloons. So Cambridge may have found a loophole that permits the equivalent of Part 15 xmtrs on 433 MHz. Since that's in the US 70cm band, I say sure, let them have a go at the ARHAB books!

73 de Mike W5VSI
CTO EOSS

Ralph Wallio, W0RPK wrote:
> See
>
> http://www.cuspaceflight.co.uk
>
> http://spacenear.us/tracker/
>
> http://www.nivnac.co.uk/files/HAPSD_NOVA8/HAPS-D_pan1_quarter.jpg
>
> Contact:
>
> Ed Moore
> Churchill College, Cambridge, CB3 0DS
> eam52@...
> Cambridge University Spaceflight
>
> They are using unlicensed 70cm +4dBm telemetry links. Use of Amateur Radio is not allowed by
> regulators but we are working on solutions that would allow their flight achievements to be
> submitted to our ARHAB Records.
>
> TNX es 73 de Ralph Wallio, WØRPK
> W0RPK@netINS.net W0RPK@... W0RPK@...
> http://showcase.netins.net/web/wallio/
> Hubbert's Peak - The Mother of all Perfect Storms
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4712. Summer 2009 Super Launches??

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 17:13:46 UTC
From: BASE
Topic: 4708 Message: 4712

It's great to hear that GPSL will be in Lawrence next summer. The central location makes it easier for those of us that attend and don't live in the Great Plains.

If we attempt a Field Day Super Launch, that would be on June 27-28.

I've had some discussions with others about the possibility of also having a Great Lakes Super Launch (GLSL) from some location in a state that borders one of the Great Lakes (e.g., Upland, Indiana).

Of course, I'd love to participate in all three events which requires date coordination.

Paul, do you have any idea about a date for GPSL?

Jeff and David, would Taylor be willing to host the GLSL? Would there be a good date to match some of your workshop efforts?

Howard
·–'–––

4713. Re: Cambridge University (UK) high altitude ballooning program

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 18:39:33 UTC
From: Hank
Topic: 4709 Message: 4713

Ralph,

Do you have all the rules regarding "accepted" records
collected in one place in written form?

I didn't see them on your website, but could well have
had them right under my nose and missed them.

If they're available but not presently on the internet,
could you please send them to me in email?

Hank

4714. Tiny Trak or Open Trak wanted, dead or alive

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 18:48:22 UTC
From: Hank
Topic: 4714 Message: 4714

If anyone has a

1. working but old,

2. water soaked,

3. unassembled or partially assembled,

4. or busted non-working TT or OT

that he/she would be willing or even anxious to
get rid of, I'm looking for something of that
description.

With improvements in both vendors's offerings,
I thought there might be a few orphaned or neglected
older ones lying in a drawer out there that might
fill the bill perfectly.

Looking for just the card so that it could be mailed
real easily in a small padded envelope first class.

Hank

4715. Re: [GPSL] Summer 2009 Super Launches??

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 18:57:22 UTC
From: L. Paul Verhage
Topic: 4708 Message: 4715
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4716. Re: [GPSL] Summer 2009 Super Launches??

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 19:08:43 UTC
From: Brian Short, KCØBS
Topic: 4708 Message: 4716
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4717. Re: [GPSL] Summer 2009 Super Launches??

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 19:12:23 UTC
From: L. Paul Verhage
Topic: 4708 Message: 4717
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4718. RE: [GPSL] Summer 2009 Super Launches??

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-15 21:01:37 UTC
From: Nick Hanks
Topic: 4708 Message: 4718

Hi Paul,

EOSS already has a flight (actually a 3-fer) on the schedule for that Saturday (the 11th). We□re also on tap for July 25th so that□s makes it hard to go to GPSL on the 18th□families have trouble with ballooning three weeks in a row {:-) . The flights on the 11th are at the end of a Mon-Fri workshop that□s already scheduled with Univ of Colorado faculty and facilities department. So that□s near impossible to reschedule. With some effort we may be able to move the flight on the 25th, but would prefer not to. How about Aug 1st (same weekend as this year)?

Nick

EOSS GPSL Coordinator

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of L. Paul Verhage
Sent: Monday, September 15, 2008 13:12
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] Summer 2009 Super Launches??

Oops, sorry, that's what I meant.

So the 11th of July.

Paul

On Mon, Sep 15, 2008 at 2:08 PM, Brian Short, KCØBS <kcshorty@gmail. <mailto:kcshorty@...> com> wrote:

How about the week after...lots of activities planned for the 4th!

On Mon, Sep 15, 2008 at 1:57 PM, L. Paul Verhage <nearsys@gmail. <mailto:nearsys@...> com> wrote:

Let's plan for the week after the 4th of July weekend for GPSL. In 2009, the 4th is on a Saturday

Paul

On Mon, Sep 15, 2008 at 12:13 PM, BASE <basedepauw@yahoo. <mailto:basedepauw@...> com> wrote:

It's great to hear that GPSL will be in Lawrence next summer. The central location makes it easier for those of us that attend and don't live in the Great Plains.

If we attempt a Field Day Super Launch, that would be on June 27-28.

I've had some discussions with others about the possibility of also having a Great Lakes Super Launch (GLSL) from some location in a state that borders one of the Great Lakes (e.g., Upland, Indiana).

Of course, I'd love to participate in all three events which requires date coordination.

Paul, do you have any idea about a date for GPSL?

Jeff and David, would Taylor be willing to host the GLSL? Would there be a good date to match some of your workshop efforts?

Howard

·–’–––

--
Onwards and Upwards,
Paul

--
Brian L Short, PMP--KCØBS
JOCO ARES EC ks0jc.com, k0ham.com, ksrepeater.com, kcaprs.org

--
Onwards and Upwards,
Paul

4719. Payload tape/connectors for GPS/power connections suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 03:29:39 UTC
From: Ron Malinowski N9QGS
Topic: 4719 Message: 4719

The 11th of July would be a great day, it's my birthday. :-) And I enjoy chasing birthday balloons... :-) I think it would be neat if we could plan a tour of Garmin in Olathe as part of the weekend festivities. Do they have a store there at the headquarters?

On a more serious note... I am nearing completion of a Microtrak 300 with 18LVC garmin, I am going with some suggestions from Bill WB8ELK using pipe insulation. But I don't really have many thoughts on how to finalize the whole thing. I have 3 double AA cases gorilla glued together so they are 2x3 design and that will tie power into the microtrack, and I have an comet SMA24 antenna on the microtrack and okay the way the pipe insulation I got from Lowes works is it has a slit along it to cover over existing pipes. and an adhesive strip to hold it closed and open ends. The equipment fits perfectly in there but I thought of either using tie wraps at different places to keep it closed and the contents inside or tape, and may come in bright colors?

Also I am gonna have to go back in my archive, I was on leave from emails after asking how to get the LED's on the microtrak to stay on so I can monitor power and GPS lock in testing. If anyone cares to touch that topic again, it will help me finish this up this weekend.

Oh and one more, more important, where can I get those small molex connectors that bill uses, I am looking to wire up a reliable connector small in side and that will handle small wires from the GPS 18LVC so I can easily take the GPS out of the circuit and add a pigtail that will go to a computer or my Alinco, etc. 4 conductor is perfect. Radio shack only sells those larger white connectors that are for much larger wires and power amps. I've spent 3 days looking online found pictures cant find where to buy any other suggestions are welcome. I will then solder wires onto the microtrak and put a pigtail on there to adapt to. If anyone has photos of how they did there microtrak connectors you can send me photos at aprsdash9@....

Thanks for everyones help.. Hope to be flying a balloon in the spring... Hope to piggy back my tracker on a flight this fall.

Ron N9QGS

4720. Re: [GPSL] Payload tape/connectors for GPS/power connections suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 08:07:18 UTC
From: wb8elk@aol.com
Topic: 4719 Message: 4720

Hi Ron,

The connectors I use on most of my payloads are the Molex C-Grid series.....I love them since they are latching connectors. I solder the 5-pin version directly over the DB-9 pins on the Microtrak300 and put the matching connector onto the Garmin GPS18. I use the 2-pin C-Grid for the power input to the Microtrak.

You can get free samples as well as a number of the pins from Molex.

- Bill WB8ELK

**********Pssst...Have you heard the news? There's a new fashion blog, plus the latest fall trends and hair styles at StyleList.com. (http://www.stylelist.com/trends?ncid=aolsty00050000000014)

4721. ARHAB Records Rules

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 11:55:33 UTC
From: Ralph Wallio, W0RPK
Topic: 4721 Message: 4721

ARHAB Records Rules --

Rule-1: Use Amateur Radio licensing, regulations and technology for at least one telemetry downlink.

Rule-2: Submit evidence for desired record entry as noted in each category.

Rule-3: Do not poke ARHAB Records judge/jury/executioner with a sharp stick.

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4722. Re: [GPSL] Payload tape/connectors for GPS/power connections suggestions

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 14:57:53 UTC
From: L. Paul Verhage
Topic: 4719 Message: 4722
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4723. GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 15:01:43 UTC
From: L. Paul Verhage
Topic: 4595 Message: 4723
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4724. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 15:06:05 UTC
From: Mark Conner
Topic: 4595 Message: 4724
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4725. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 15:09:32 UTC
From: L. Paul Verhage
Topic: 4595 Message: 4725
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4726. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 15:27:05 UTC
From: Keith Kaiser
Topic: 4595 Message: 4726

No problem with us at NSV.

On Sep 16, 2008, at 10:01 AM, L. Paul Verhage wrote:

>
> How does everyone feel about moving GPSL to August 1st weekend? I
> know that would help EOSS.
>
> Paul
>
> --
> Onwards and Upwards,
> Paul
>
>

4727. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 15:38:14 UTC
From: Mark Conner
Topic: 4595 Message: 4727
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4728. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 15:41:18 UTC
From: L. Paul Verhage
Topic: 4595 Message: 4728
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4729. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 16:19:22 UTC
From: Harry M
Topic: 4595 Message: 4729

Good to go here!

Harry KC5TRB

> How does everyone feel about moving GPSL to August 1st weekend? I know
> that would help EOSS.

4730. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 16:42:02 UTC
From: wb8elk@aol.com
Topic: 4595 Message: 4730

Aug 1 is fine for me

- Bill WB8ELK

**********Pssst...Have you heard the news? There's a new fashion blog,
plus the latest fall trends and hair styles at StyleList.com.
(http://www.stylelist.com/trends?ncid=aolsty00050000000014)

4731. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 17:32:39 UTC
From: David Hoffman
Topic: 4595 Message: 4731

Hey, one more week, August 15th, would put it on Bill's birthday.

David Hoffman - KE4FGW

> August 1 would be better for me - July is typically a very busy month with
> family events and the UNO flight around the 2nd or 3rd weekend. August 8
> would be even better for me, I think.
> Would we fly from Lawrence, or near Manhattan like the first GPSL?
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "L. Paul Verhage" <nearsys@...>
> Date: Tuesday, September 16, 2008 10:01 am
> Subject: [GPSL] GPSL 2009
> To: gpsl@yahoogroups.com
>
>> How does everyone feel about moving GPSL to August 1st weekend? I
>> know that
>> would help EOSS.
>>
>> Paul
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>

4732. RE: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 18:00:24 UTC
From: Fraser, Don
Topic: 4595 Message: 4732

School tends to start in Colorado by the middle of August, so let's not push it any later..

Don Fraser
HP SWD R&D, Colorado Lab
Desk Phone: 719.548.3272
Cell Phone: 719.930.7761

_____
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of David Hoffman
Sent: Tuesday, September 16, 2008 11:33 AM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] GPSL 2009

Hey, one more week, August 15th, would put it on Bill's birthday.

David Hoffman - KE4FGW

> August 1 would be better for me - July is typically a very busy month with
> family events and the UNO flight around the 2nd or 3rd weekend. August 8
> would be even better for me, I think.
> Would we fly from Lawrence, or near Manhattan like the first GPSL?
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: "L. Paul Verhage" <nearsys@...<mailto:nearsys%40gmail.com>>
> Date: Tuesday, September 16, 2008 10:01 am
> Subject: [GPSL] GPSL 2009
> To: gpsl@...m<mailto:gpsl%40yahoogroups.com>
>
>> How does everyone feel about moving GPSL to August 1st weekend? I
>> know that
>> would help EOSS.
>>
>> Paul
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>

4733. RE: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-16 20:38:21 UTC
From: BASE
Topic: 4595 Message: 4733

BASE (DePauw) would prefer the August 1 date. August 8 is too late for our summer students and August 15 is too early for our fall courses and after the start of public schools (which was August 14 this year).

Manhattan is also okay with me.

Howard

4734. Re: [GPSL] GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-17 21:30:53 UTC
From: Joe
Topic: 4595 Message: 4734

Mine also,

Where is this planned to this time around?

Joe WB9SBD
Near Space Sciences

David Hoffman wrote:

>Hey, one more week, August 15th, would put it on Bill's birthday.
>
>David Hoffman - KE4FGW
>
>
>
>>August 1 would be better for me - July is typically a very busy month with
>>family events and the UNO flight around the 2nd or 3rd weekend. August 8
>>would be even better for me, I think.
>>Would we fly from Lawrence, or near Manhattan like the first GPSL?
>>73 de Mark N9XTN
>>
>>----- Original Message -----
>>From: "L. Paul Verhage" <nearsys@...>
>>Date: Tuesday, September 16, 2008 10:01 am
>>Subject: [GPSL] GPSL 2009
>>To: gpsl@yahoogroups.com
>>
>>
>>
>>>How does everyone feel about moving GPSL to August 1st weekend? I
>>>know that
>>>would help EOSS.
>>>
>>>Paul
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>>>--
>>>Onwards and Upwards,
>>>Paul
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>
>Yahoo! Groups Links

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4735. Alinco DR-135TMKIII with KPC-3 plus?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-22 04:53:06 UTC
From: k6rpt
Topic: 4735 Message: 4735

I'm thinking about buying an Alinco DR-135TMKIII to use with my Kantronics KPC-3 plus. The Alinco has a db-9 for external TNC use. Is this a good pair for ground tracking?

4736. [Fwd: FW: super balloon]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-24 04:32:25 UTC
From: Mike Manes
Topic: 4736 Message: 4736

Cornell has developed a graphene membrane just one C atom thick that holds back 30 psig of He while remaining elastic. Closest thing to the long-sought "Noweightum" for balloon skins that I've heard of.

Not sure if it's economically scalable to the many, many square meters needed for a research balloon, but it's sure worth watching!

73 de Mike W5VSI

-------- Original Message --------
Subject: FW: super balloon
Date: Tue, 23 Sep 2008 15:24:23 -0600
From: Russ Chadwick <Russell.B.Chadwick@...>
Reply-To: Russell.B.Chadwick@...
To: 'Nick Hanks N0LP' <ndhanks@...>, 'Mike Manes' <mrmanes@...>

Nick, Mike,

This stuff would make a great balloon.

http://www.sciencedaily.com/releases/2008/09/080922122519.htm

Russ
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4737. Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-24 15:28:35 UTC
From: L. Paul Verhage
Topic: 4737 Message: 4737
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4738. Online Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-24 15:45:54 UTC
From: L. Paul Verhage
Topic: 4738 Message: 4738
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4739. Re: [GPSL] Online Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-24 16:03:25 UTC
From: Keith Kaiser
Topic: 4738 Message: 4739

Paul,

It looks to me like the NWS capcha codes are not appearing at the moment. This has happened once or twice before, you'll have to wait a while for NWS and try again.

Sorry.

On Sep 24, 2008, at 10:45 AM, L. Paul Verhage wrote:

>
> Hey, when I select to plot the predicted flight path, I get a world
> map but no plotted flight path. I'm using Mozzila.
>
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>
>

4740. Re: [GPSL] Online Balloon Track

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-24 16:10:12 UTC
From: L. Paul Verhage
Topic: 4738 Message: 4740
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4741. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-25 04:45:24 UTC
From: Mike Manes
Topic: 4737 Message: 4741

Hi Paul,

GL with the flight, and glad to see you've found a new balloonacy therapy group :=}.

What technique do you use to tie off a 3000 gm neck? We found the neck rubber too stiff to fold over as with a 1200, and ended up developing a an insert made from a PVC to 1/2" NPT reducer held in place with a hose clamp.

73 de Mike W5VSI

L. Paul Verhage wrote:
> NearSys in conjunction with the Experimental Balloon Society (XBS) at KU
> is scheduling a launch for this Saturday at 7 AM. We'll launch from the
> soccer fields at 23rd and Iowa in Lawrence, KS. There will be three
> APRS trackers on board, transmitting at 144.390. The callsigns are
> KD4STH, KD4STH-11, and KU0K-11. The balloon is a 3,000 gram balloon and
> we're hoping to reach 100,000 feet.
>
> --
> Onwards and Upwards,
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4742. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-25 13:42:26 UTC
From: L. Paul Verhage
Topic: 4737 Message: 4742
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4743. RE: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-25 17:07:09 UTC
From: Earl Foster
Topic: 4677 Message: 4743

I was checking the Garmin website today and noticed that the GPS18LVC is for sale again. They took it off the discontinued list.

From: ebf306@msn.comTo: gpsl@yahoogroups.comSubject: RE: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kftDate: Fri, 5 Sep 2008 22:01:42 -0500

Cool. When the update is available, if somene else has posted it, I will post it to our yahoo group site. Thanks for the update and to Garmin. Our high altitude ballooning is such a specialized field that it warrents Kuidos to Garmin. Thanks for the update.

To: GPSL@yahoogroups.comFrom: w0jrt@...: Sat, 6 Sep 2008 01:14:39 +0000Subject: [GPSL] Re: Fw: GPS18LVC altitude freeze at 60kft

I received an e-mail today saying that they have a fix for this and itshould appear in the next software update. They didn't say when thatwill be so we'll just have to keep an eye on the web site.--- In GPSL@yahoogroups.com, Earl Foster <ebf306@...> wrote:>> Any more information on the altitude question with the GPS18x?

Get more out of the Web. Learn 10 hidden secrets of Windows Live. Learn Now
---
Want to do more with Windows Live? Learn “10 hidden secrets” from Jamie.
http://windowslive.com/connect/post/jamiethomson.spaces.live.com-Blog-cns!550F681DAD532637!5295.entry?ocid=TXT_TAGLM_WL_domore_092008

4744. GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-26 02:23:11 UTC
From: Ron Malinowski, Jr.
Topic: 4673 Message: 4744

Im sorry I was thrown off by a recent message regarding the GPS 18 LVC, I thought the 18x was the one with the 60kft limit, I just purchased a 18LVC (non X) for a balloon, is there an
issue with a firmware on the older 18LVC? before I fly this unit. It has the latest firmware as
of 1 month ago when I got the unit. Any input is appreciate, would be neat if they could make the 18x with the same limit as the older units, but I'm not sure if that is programmed into the firmware or a feature of the chipset. I noticed all high sensitivity receivers have a
60kft limit that I have researched. and I researched about 17 models in the last 2 weeks especially the little data loggers. We our very honored that Garmin has some units with a little play in them. If anyone know more about this concern or issue I am very interested in
learning more...

Thanks, Ron

4745. Re: [GPSL] GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-26 02:31:57 UTC
From: Harry M
Topic: 4673 Message: 4745

GPS RECEIVERS vs 60KFT

http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
---

> Im sorry I was thrown off by a recent message regarding the GPS 18 LVC, I
> thought the 18x

4746. GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-26 02:32:57 UTC
From: Ron Malinowski, Jr.
Topic: 4673 Message: 4746

I was able to read back a little bit and I understand, and i apologize, but is there for sure a
know firmware in error or a part number change? if its firmware can we load an older firmware back into the newer units. mine was bought about a month or 1 1/2 months back from GPSCity and has not flown yet. I would be happy to fly mine piggyback sooner then later if it helps with any research. I would have to check my part number on the unit I think
its on the bottom. I believe the firmware was recent when I got it. Thanks guys for keeping us updated. I may have my package flown in KY in the next 60 days by Bill WB8ELK, will see if we have all resolved by then.

Thanks, Ron

4747. RE: [GPSL] GPS18LVC altitude freeze at 60kft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-26 03:02:59 UTC
From: Earl Foster
Topic: 4673 Message: 4747

I will be flying both the GPS18 and GPS18x on my next flight tentatively scheduled for Oct 18. My 18x is running the latest firmware which is 2.7 and I will have the tracker set to broadcast ~ every 2 minutes on the same frequency as my primary tracker. I will post the outcome of the 18x.

Earl
www.hapb.net

To: GPSL@yahoogroups.comFrom: APRSdash9@...: Fri, 26 Sep 2008 02:32:57 +0000Subject: [GPSL] GPS18LVC altitude freeze at 60kft

I was able to read back a little bit and I understand, and i apologize, but is there for sure a know firmware in error or a part number change? if its firmware can we load an older firmware back into the newer units. mine was bought about a month or 1 1/2 months back from GPSCity and has not flown yet. I would be happy to fly mine piggyback sooner then later if it helps with any research. I would have to check my part number on the unit I think its on the bottom. I believe the firmware was recent when I got it. Thanks guys for keeping us updated. I may have my package flown in KY in the next 60 days by Bill WB8ELK, will see if we have all resolved by then.Thanks, Ron

---
See how Windows Mobile brings your life together—at home, work, or on the go.
http://clk.atdmt.com/MRT/go/msnnkwxp1020093182mrt/direct/01/

4748. GPS 18-LVC vs. GPS 18x-LVC

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-26 13:23:19 UTC
From: w0jrt
Topic: 4673 Message: 4748

There seems to be a lot of confusion about this. Hopefully this message will clear things up. The link that was posted (http://showcase.netins.net/web/wallio/GPSrcvrsvs60kft.htm) does not make it entirely clear as it mixes up the "GPS 18-LVC" and "GPS 18x-LVC", or at least lumps them together. Although they look similar physically they are two completely different models with completely different part numbers running completely different software (although most likely with a lot of shared source.)

The GPS 18-LVC with the 5 meter cable is/was produced under two different part numbers: 010-00321-06 (non-RoHS) and 010-00321-56 (RoHS). They are functionally identical and run the same software. The only difference is that one was built with RoHS-compliant parts and RoHS-compliant processes.

The GPS 18x-LVC with the 5 meter cable has the part number 010-00321-36.

The latest software (006-B0273-00) for the GPS 18-LVC is v3.20 released in October of 2007.

The latest software (006-B0796-00) for the GPS 18-LVC is v2.70 August of 2008.

If you have a GPS 18-LVC there is no problem flying it on a balloon.

If you have a GPS 18x-LVC it currently has a limit near 60k feet. Garmin says this was an oversight and they are working to fix this since it should meet the same limits at the GPS 18-LVC.

-Jerome

--- In GPSL@yahoogroups.com, "Ron Malinowski, Jr." <APRSdash9@...> wrote:
>
> I was able to read back a little bit and I understand, and i apologize, but is there for sure a
> know firmware in error or a part number change? if its firmware can we load an older
> firmware back into the newer units. mine was bought about a month or 1 1/2 months back
> from GPSCity and has not flown yet. I would be happy to fly mine piggyback sooner then
> later if it helps with any research. I would have to check my part number on the unit I think
> its on the bottom. I believe the firmware was recent when I got it. Thanks guys for keeping
> us updated. I may have my package flown in KY in the next 60 days
by Bill WB8ELK, will see

> if we have all resolved by then.
>
> Thanks, Ron
>

4749. KD4STH and KD4STH-9

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-27 13:53:10 UTC
From: Ron Malinowski N9QGS
Topic: 4749 Message: 4749

Im watching APRS activity online for the WØNSV-11 balloon that is launching from LIberty Mo, but I am seeing another ballon in flight from Lawrence that was not announced on the site, anyone want to watch it. Im not sure who this person is but will have to have the post to ARHAB calendar. :-) It appears as a house and a ballon, two tracker operation. on its way down, but thought I would share. 73 Ron N9QGS

4750. Re: [GPSL] KD4STH and KD4STH-9

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-27 15:49:17 UTC
From: Keith Kaiser
Topic: 4749 Message: 4750

W0NSV was not able to launch their balloon today, however KD4STH-9 did launch from Lawrence.

On Sep 27, 2008, at 8:53 AM, Ron Malinowski N9QGS wrote:

> Im watching APRS activity online for the WØNSV-11 balloon that is
> launching from LIberty Mo, but I am seeing another ballon in flight
> from Lawrence that was not announced on the site, anyone want to
> watch it. Im not sure who this person is but will have to have the
> post to ARHAB calendar. :-) It appears as a house and a ballon,
> two tracker operation. on its way down, but thought I would
> share. 73 Ron N9QGS
>
>

4751. Re: [GPSL] Digest Number 1231

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-27 21:41:08 UTC
From: Ron Malinowski N9QGS
Topic: 4751 Message: 4751

Thank you looked like a nice flight for KD4STH watched from burst down. very good APRS coverage through the internet. I will look forward to revised date of W0NSV-11, I learned that their website covering the W0 launch current mission status is an old launch and the information wasn't current so I guess I didn't have a good source for the status :-(hahaha but Im glad I got to another launch in its place. I enjoy monitoring the launch while I work on ham related projects.

Ron

On Sep 27, 2008, at 2:44 PM, GPSL@yahoogroups.com wrote:

> There are 2 messages in this issue.
>
> Topics in this digest:
>
> 1a. KD4STH and KD4STH-9
> From: Ron Malinowski N9QGS
> 1b. Re: KD4STH and KD4STH-9
> From: Keith Kaiser
>
>
> Messages
> ----------
> 1a. KD4STH and KD4STH-9
> Posted by: "Ron Malinowski N9QGS" APRSdash9@... ronald74
> Date: Sat Sep 27, 2008 6:53 am ((PDT))
>
> Im watching APRS activity online for the WØNSV-11 balloon that is
> launching from LIberty Mo, but I am seeing another ballon in flight
> from Lawrence that was not announced on the site, anyone want to watch
> it. Im not sure who this person is but will have to have the post to
> ARHAB calendar. :-) It appears as a house and a ballon, two tracker
> operation. on its way down, but thought I would share. 73 Ron
> N9QGS
> Messages in this topic (2)
> ----------
> 1b. Re: KD4STH and KD4STH-9
> Posted by: "Keith Kaiser" wa0tjt@gmail.com kkaiser
> Date: Sat Sep 27, 2008 8:49 am ((PDT))
>
> W0NSV was not able to launch their balloon today, however KD4STH-9 did
> launch from Lawrence.
>
> On Sep 27, 2008, at 8:53 AM, Ron Malinowski N9QGS wrote:

>
>> Im watching APRS activity online for the WØNSV-11 balloon that is
>> launching from LIberty Mo, but I am seeing another ballon in flight
>> from Lawrence that was not announced on the site, anyone want to
>> watch it. Im not sure who this person is but will have to have the
>> post to ARHAB calendar. :-) It appears as a house and a ballon,
>> two tracker operation. on its way down, but thought I would
>> share. 73 Ron N9QGS
>>
>>
>
>
> Messages in this topic (2)
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> --
> Yahoo! Groups Links
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4752. Re: [GPSL] Digest Number 1231

Yahoo group: GPSL (2002 — 2008)
Date: 2008-09-28 00:14:26 UTC
From: L. Paul Verhage
Topic: 4751 Message: 4752
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4753. Taylor launchs

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-01 12:45:03 UTC
From: Jeff Dailey
Topic: 4753 Message: 4753

Taylor launchs in October:
9/30 HARP84 10:00am Launch site IN.
10/10 HARP85 7:30pm Night flight Launch site IN.
10/11 HARP86 10:00am Astronomy1 Launch site IN. ((this flight will have the cross band repeater onboard Uplink 144.36 / Downlink 446.025))
10/24 CCLI1 10:00am Launch site IN.
10/25 CCLI2 10:00am Launch site AR.
10/30 CCLI3 10:00am Launch site WA.
11/1 CCLI4 10:00am Launch site MN.
11/1 STO26 10:00am Launch site IN.

TU301 APRS POD on all flights callsign KB9ZNZ-

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Research Engineer
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Upland, IN 46989
 (765) 998-4365 Fax (765) 998-4396
jfdailey@taylor.edu

4754. Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-02 01:58:23 UTC
From: Mark Conner
Topic: 4754 Message: 4754
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4755. Re: [GPSL] Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-02 13:45:13 UTC
From: L. Paul Verhage
Topic: 4754 Message: 4755
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4756. Re: [KNSP] Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-02 22:00:46 UTC
From: Mike Manes
Topic: 4754 Message: 4756

Hi Mark,

Those PCBs are probably protection circuits which disconnect the load if either cell gets discharged down to 2.5 or 3.0 V, charged to over 4.2V or if the pack is overloaded or shorted; an over-discharged or over-charged Li-ion cell presents a significant fire hazard, so I'd recommend NOT operating with the PCB.

In that light, can you tell if the cell pairs are wired in series or parallel? It's OK to strap Li-ion cells in parallel with no intervening safety switch, and the pair will operate exactly like a single cell having 2x the mAh capacity of each cell alone, and the safety circuit will be designed to operate accordingly. If they're in series, then the junction between the cells will be brought out to the protection PCB so each cell voltage can be monitored separately.

This means that if you keep the protection PCB with the pack, then you'll have to design your load to operate from either 3.0 - 4.2V or 6.0 - 8.4V, depending on how the cells are strapped.

I got new 18650 cells rated at 2600 mAh for about $8 each, as well as protection circuits for 1S, 2S and 4S configurations and a balancing charger, for all EOSS payloads from All Battery:

http://www.all-battery.com/index.asp

So your $3 / pair price is a bargain, but then again, the mAh capacity is only about 1/2 that of the new cells. If an application requires voltages other than what Mark's protected packs are designed for, consider replacing the PCB with one designed for the desired pack voltage and break out the single cells to roll your own.

That site also has adjustable switching buck regulators configured to plug into a uA750x linear regulator socket; I'm using a couple of those with a 4S pack of 18650's to provide regulated +12 for the PCE KPA-5 ATV xmtr and +9 for one of the cameras and a bulk supply for the several 5V linear regulators. EOSS-132, flying this weekend, is 100% Li-ion powered, except for the backup release burner and the B-LAN module.

73 de Mike W5VSI
CTO EOSS

Mark Conner wrote:
> I have some 18650-style Li-ion cells for sale. These were part of a
> bulk purchase I made on eBay this summer. I got a box of 25 packs, but
> won't be needing all of them.
>

> There are packaged in pairs in a Qualcomm cell phone battery pack, and
> have a PCB attached to them. It is very easy to pry the case apart and
> separate the cells from the plastic, and to remove the PCB if desired.
> There are three different manufacturers of the cells, but all check out
> on the web as being 1350 mAH capacity. All of them I've examined so far
> have at least a 50% charge on them, many are about 3.8-3.9 V/cell.
> These cells are probably 6-8 years old but appear to have been used very
> little (little or no wear on the battery pack and contacts). I will
> examine the pack for a good charge prior to shipping, but I can't
> guarantee condition otherwise.
>
> I will sell these for $3 per battery pack (2 cells) plus actual shipping
> costs. Figure about 6 oz per pack for shipping weight.
>
> I have used cells like these (not from this particular lot) for NSTAR
> with excellent results. You should follow standard precautions for
> Li-ion pack construction and charging/discharging.
>
> E-mail me if you have questions.
>
> 73 de Mark N9XTN
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4757. Re: [KNSP] Re: Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-02 23:12:11 UTC
From: Mike Manes
Topic: 4757 Message: 4757

Yup - I meant DON'T run 'em w/o the PCBs. Stuff happens when ya edit yer
own drivel :={.

OK on the 2S (2 in series) configuration. I'm using a 2S-2P config in
AE0SS-11 yielding 7.4 @ 5200 mAh to ensure over 24 h battery life in the
rare event of a long recovery. I think you can probably strap two
of your packs in parallel at the load terminals to double battery life.
I think this is what Larry K0ANI did on his APRS/DF/Cutter beacon after
it died during descent on early flights; he's using COTS hobby shop
Li-ion packs, and it works well.

73 de Mike W5VSI

Mark wrote:
>> Those PCBs are probably protection circuits which disconnect the
>> load if either cell gets discharged down to 2.5 or 3.0 V, charged to
> over
>> 4.2V or if the pack is overloaded or shorted; an over-discharged or
> over-
>> charged Li-ion cell presents a significant fire hazard, so I'd
> recommend NOT
>> operating with the PCB.
>
>
> I think you mean "not *without* the PCB". You do want safety measures
> applied somehow, whether it's the included PCB or something separate.
>
>
>> In that light, can you tell if the cell pairs are wired in series or
> parallel?
>> It's OK to strap Li-ion cells in parallel with no intervening safety
> switch,
>> and the pair will operate exactly like a single cell having 2x the mAh
>> capacity of each cell alone, and the safety circuit will be designed
> to
>> operate accordingly. If they're in series, then the junction between
> the
>> cells will be brought out to the protection PCB so each cell voltage
> can
>> be monitored separately.
>
> They're wired in series and there is a between-cells connection. So as
> is, you get a 7.4V (nominal) supply at 1350 mAH.
>
>> I got new 18650 cells rated at 2600 mAh for about $8 each, as well as
>> protection circuits for 1S, 2S and 4S configurations and a balancing

> charger,
>> for all EOSS payloads from All Battery:
>>
>> http://www.all-battery.com/index.asp
>>
>> So your $3 / pair price is a bargain, but then again, the mAh capacity
> is
>> only about 1/2 that of the new cells. If an application requires
> voltages
>> other than what Mark's protected packs are designed for, consider
> replacing
>> the PCB with one designed for the desired pack voltage and break out
> the
>> single cells to roll your own.
>
> I'm using these cells where capacity per cell isn't such an issue. I
> may replace my main pack with newer high-capacity cells when the old
> pack starts to go (been in use at least 3 yrs).
>
> 73 de Mark N9XTN
>
>
>
>
>
> ------------------------------------
>
> List owner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> wner: KNSP-owner@yahoogroups.com
> Group URL: http://groups.yahoo.com/group/KNSP
> Yahoo! Groups Links
>
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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4758. Re: [GPSL] Re: [KNSP] Re: Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-03 02:51:17 UTC
From: Kent Ochs
Topic: 4757 Message: 4758

I have used similar cell phone battery cells in a three cell (12v) serial configuration using a Li-ion quick charger to charge the pack. Use of a charge/discharge circuit is absolutely necessary with Li-ion batteries. The chips on the PCB that came with these single cell packs were easily identified and with a little work, I was able to modify one of the PCB boards so that I could control the charge and discharge of the first battery in the series. While this arrangement does not insure an even charge/discharge across the remain two cells, it does provide a level of protection I am comfortable with. My guess is that the Qualcomm PCB on these batteries are a two cell charge control circuit. If your happy with 7.2 V leave it in place and figure out where to connect the charger.

A member of my local radio club has designed a Maxim based, surface mount, three cell charge control circuit, complete with circuit board. The intent of this circuit is to replace NiCad or NiMH batteries used on handheld VHF radios, with a 12v Li-ion pack. If you need a 12V Li-ion (or Li-poly) battery for an ARHAB projects, this is the circuit for you. Using surface mount components is not for the faint of heart (or poor of sight), but if anyone is interested in the details, please drop me a line.

The nice thing about Li-ion, besides their resistance to cold, is that once charged, they have a very nice shelf life. At $1.50/cell, this is a great deal.

----- Original Message ----
From: Mike Manes <mrmanes@...>
To: Mark <mconner1@...>
Cc: KNSP List <KNSP@yahoogroups.com>; GPSL Balloon Reflector <GPSL@yahoogroups.com>
Sent: Thursday, October 2, 2008 6:12:11 PM
Subject: [GPSL] Re: [KNSP] Re: Li-ion cells for sale

Yup - I meant DON'T run 'em w/o the PCBs. Stuff happens when ya edit yer
own drivel :={.

OK on the 2S (2 in series) configuration. I'm using a 2S-2P config in
AE0SS-11 yielding 7.4 @ 5200 mAh to ensure over 24 h battery life in the
rare event of a long recovery. I think you can probably strap two
of your packs in parallel at the load terminals to double battery life.
I think this is what Larry K0ANI did on his APRS/DF/Cutter beacon after
it died during descent on early flights; he's using COTS hobby shop
Li-ion packs, and it works well.

73 de Mike W5VSI

Mark wrote:
>> Those PCBs are probably protection circuits which disconnect the
>> load if either cell gets discharged down to 2.5 or 3.0 V, charged to
> over
>> 4.2V or if the pack is overloaded or shorted; an over-discharged or
> over-

>> charged Li-ion cell presents a significant fire hazard, so I'd
> recommend NOT
>> operating with the PCB.
>
>
> I think you mean "not *without* the PCB". You do want safety measures
> applied somehow, whether it's the included PCB or something separate.
>
>
>> In that light, can you tell if the cell pairs are wired in series or
> parallel?
>> It's OK to strap Li-ion cells in parallel with no intervening safety
> switch,
>> and the pair will operate exactly like a single cell having 2x the mAh
>> capacity of each cell alone, and the safety circuit will be designed
> to
>> operate accordingly. If they're in series, then the junction between
> the
>> cells will be brought out to the protection PCB so each cell voltage
> can
>> be monitored separately.
>
> They're wired in series and there is a between-cells connection. So as
> is, you get a 7.4V (nominal) supply at 1350 mAH.
>
>> I got new 18650 cells rated at 2600 mAh for about $8 each, as well as
>> protection circuits for 1S, 2S and 4S configurations and a balancing
> charger,
>> for all EOSS payloads from All Battery:
>>
>> http://www.all- battery.com/ index.asp
>>
>> So your $3 / pair price is a bargain, but then again, the mAh capacity
> is
>> only about 1/2 that of the new cells. If an application requires
> voltages
>> other than what Mark's protected packs are designed for, consider
> replacing
>> the PCB with one designed for the desired pack voltage and break out
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>> single cells to roll your own.
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> I'm using these cells where capacity per cell isn't such an issue. I
> may replace my main pack with newer high-capacity cells when the old
> pack starts to go (been in use at least 3 yrs).
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> 73 de Mark N9XTN
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Mike Manes mrmanes@gmail. com Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4759. Re: [GPSL] Re: [KNSP] Re: Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-03 18:13:32 UTC
From: Mike Manes
Topic: 4757 Message: 4759

Hi Kent,

I see no reason why 2 or 3 of those 2-cell packs couldn't be operated in series with the original PCBs left intact. I have noticed that one can't assume that each cell will discharge identically with others in the series string, so depending on just one cell's voltage to infer that of the other's leaves one open to a nasty surprise.

The PCBs don't equalize discharge - they just trip out the whole pack when any one cell drops below the preset minimum voltage. Nor so the ones I have equalize charge - they just trip the whole pack if any one cell exceeds the preset max voltage.

And although $1.50 per cell is indeed a bargain, $8 / cell spread over 500 recharge cycles is WAY cheaper than even alkalines! NiCd and NiMH can be used in payloads, of course, but special care must be taken to keep 'em warm. The best chemistry for temps down to -40C is LiSO2, but that's the high-priced spread now that the surplus stock is gone. Li-ion is rated down to -20C, so I thermally couple mine to power-hog loads or use a thermostatically-controlled Minco heater set for -15C.

73 de Mike W5VSI

Kent Ochs wrote:
> I have used similar cell phone battery cells in a three cell (12v)
> serial configuration using a Li-ion quick charger to charge the pack.
> Use of a charge/discharge circuit is absolutely necessary with Li-ion
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> of the PCB boards so that I could control the charge and discharge of
> the first battery in the series. While this arrangement does not insure
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> level of protection I am comfortable with. My guess is that the
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> A member of my local radio club has designed a Maxim based, surface
> mount, three cell charge control circuit, complete with circuit board.
> The intent of this circuit is to replace NiCad or NiMH batteries used on
> handheld VHF radios, with a 12v Li-ion pack. If you need a 12V Li-ion
> (or Li-poly) battery for an ARHAB projects, this is the circuit for
> you. Using surface mount components is not for the faint of heart (or
> poor of sight), but if anyone is interested in the details, please drop
> me a line.
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> The nice thing about Li-ion, besides their resistance to cold, is that
> once charged, they have a very nice shelf life. At $1.50/cell, this is
> a great deal.
>
> ----- Original Message ----
> From: Mike Manes <mrmanes@...>
> To: Mark <mconner1@...>
> Cc: KNSP List <KNSP@yahoogroups.com>; GPSL Balloon Reflector
> <GPSL@yahoogroups.com>
> Sent: Thursday, October 2, 2008 6:12:11 PM
> Subject: [GPSL] Re: [KNSP] Re: Li-ion cells for sale
>
> Yup - I meant DON'T run 'em w/o the PCBs. Stuff happens when ya edit yer
> own drivel :={.
>
> OK on the 2S (2 in series) configuration. I'm using a 2S-2P config in
> AE0SS-11 yielding 7.4 @ 5200 mAh to ensure over 24 h battery life in the
> rare event of a long recovery. I think you can probably strap two
> of your packs in parallel at the load terminals to double battery life.
> I think this is what Larry K0ANI did on his APRS/DF/Cutter beacon after
> it died during descent on early flights; he's using COTS hobby shop
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> >> charged Li-ion cell presents a significant fire hazard, so I'd
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> >> In that light, can you tell if the cell pairs are wired in series or
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> >> and the pair will operate exactly like a single cell having 2x the mAh
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> > is, you get a 7.4V (nominal) supply at 1350 mAH.
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> >> I got new 18650 cells rated at 2600 mAh for about $8 each, as well as
> >> protection circuits for 1S, 2S and 4S configurations and a balancing
> > charger,
> >> for all EOSS payloads from All Battery:
> >>
> >> http://www.all- battery.com/ index.asp
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> >> So your $3 / pair price is a bargain, but then again, the mAh capacity
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> >> only about 1/2 that of the new cells. If an application requires
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> >> other than what Mark's protected packs are designed for, consider
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> >> the PCB with one designed for the desired pack voltage and break out
> > the
> >> single cells to roll your own.
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> > 73 de Mark N9XTN
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> > ------------ --------- --------- ------
> >
> > List owner: KNSP-owner@yahoogro ups.com
> <mailto:KNSP-owner%40yahoogroups.com>
> > Group URL: http://groups. yahoo.com/ group/KNSP
> <http://groups.yahoo.com/group/KNSP>
> > wner: KNSP-owner@yahoogro ups.com <mailto:KNSP-owner%40yahoogroups.com>
> > Group URL: http://groups. yahoo.com/ group/KNSP
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> > Yahoo! Groups Links
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> Mike Manes mrmanes@gmail. com <mailto:mrmanes%40gmail.com> Tel: 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

4760. Re: [GPSL] Li-ion cells for sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-04 18:08:05 UTC
From: L. Paul Verhage
Topic: 4754 Message: 4760
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4761. Digial Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-04 18:14:58 UTC
From: L. Paul Verhage
Topic: 4761 Message: 4761
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4762. Re: [GPSL] Digial Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-04 18:25:14 UTC
From: Mark Conner
Topic: 4761 Message: 4762
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4763. Re: [GPSL] Digial Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-04 19:48:10 UTC
From: L. Paul Verhage
Topic: 4761 Message: 4763
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4764. Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-04 19:58:24 UTC
From: L. Paul Verhage
Topic: 4764 Message: 4764
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4765. RE: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-05 04:10:36 UTC
From: Earl Foster
Topic: 4764 Message: 4765

You should get 2 hours 19 minutes @ 1280 x 720 Pixels (H.264) up to 30 fps with a 4Gb SD card according to my HD recorder.

To: gpsl@yahoogroups.comFrom: nearsys@...: Sat, 4 Oct 2008 13:58:24 -0600Subject: [GPSL] Video Camera

I found the Jazz website. The camera is the HDV-178 and allows up to a 4 Gb SD card. By my calculations, that should allow two hours of video. I got about 33 minutes with a 1 Gb card.-- Onwards and Upwards,Paul

_____
Get more out of the Web. Learn 10 hidden secrets of Windows Live.
http://windowslive.com/connect/post/jamiethomson.spaces.live.com-Blog-cns!550F681DAD532637!5295.entry?ocid=TXT_TAGLM_WL_domore_092008

4766. There's Always Hope For Balloon Recovery

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-05 18:50:45 UTC
From: Dan Wietchy
Topic: 4757 Message: 4766

Hunting Guide locates the lost BEAR 2 balloon.

The BEAR 2 balloon, launched on July
29th in conjunction with the special event station W1AW/KL7 was lost due to suspected
MicroTrak/GPS transmitter antenna damage. This was the balloon that contained both
an APRS beacon and packet (digipeater) system which allowed amateur radio
operators from across the state to communicate with each other for the ARRL special
event. Due to the high wind speed in the
middle of the Alaskan summer, we originally designed the balloon to have only
one GPS beacon, realizing the balloon would rapidly travel out of our immediate
area and probably be non-recoverable.
Despite this fact, we still hoped to be able to track its flight. Although the packet
system remained functional
for over 3 ½ hours while in flight, with the failure of the beacon antenna, there
was no way to receive APRS position reports and we presumed the balloon would
be permanently lost.

On Sunday September 28, big game
hunter Jared Owens was guiding a hunting party client (Ron Rockstad) in the extremely
remote area of the West Fork of the Little Delta River (Healy D1 quadrangle)
when he spotted something blue and yellow on top of a nearby peak. Being curious, he hiked
up to the location and
noted the BEAR 2 parachute and payload capsules. Fortunately, all the capsules
had ownership and phone numbers written on the outside so Jared called Jerry
(KL7EDK), and Dan (KL1JP) on his satellite phone informing us about his find.
After returning to Fairbanks
several days later, Jared met with us to return the balloon remnants which were in
excellent condition.

It was an absolute delight to be
able to successfully retrieve the BEAR 2 flight data after 2 months of
wondering where it was. We now can confirm the
balloon reached an altitude of 92,341 feet, traveling 112 miles from the
launch point.

More flight data and pictures are on
the BEAR website (http://www.bear.437am.com)

NEVER give up hope of a lost flight package !

Dan (KL1JP)
Dan (KL1JP)

4767. Re: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 13:55:32 UTC
From: L. Paul Verhage
Topic: 4764 Message: 4767
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4768. Re: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 14:18:44 UTC
From: Mark Conner
Topic: 4764 Message: 4768
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4769. Re: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 15:10:51 UTC
From: L. Paul Verhage
Topic: 4764 Message: 4769
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4770. RE: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 15:17:19 UTC
From: Earl Foster
Topic: 4764 Message: 4770

If you haven't purchased an HD video recorder you might want to take a look at DXG DXG-569V 5.0MP Digital Camcorder (http://www.radioshack.com/family/index.jsp?categoryId=2032121&cp=2032055&allCount=52&fbc=1&f=Brand%2F1000261%2F&fbn=Brand%2FDXG). It runs the same price as the Jazz and uses 3xAAA batteries of your choice. I have had very good results from their line of digital video recorders.

I used their standard definition model for all my previous flights and the videos came out really nice. Planning to pick one up in the next couple of days. Not sure if it has external AC port but should not be any issue powering it with external batteries for extended life. Two leads coming out of the battery compartment connected to a regulated power source should do it.

Anyway ... just another choice to consider if you are looking for a cheap HD video camera for your balloons

To: GPSL@yahoogroups.comFrom: mconner1@...: Mon, 6 Oct 2008 09:18:44 -0500Subject: Re: [GPSL] Video Camera

Does the unit have an AC adapter that it can get power from? A couple minutes on Google yielded some indication that it can. You might be able to overcome the battery life limit with that using an external battery and get another ~15 min of record time.
I'm hoping to have a camera that will give launch-to-landing video - most of my flights are right about 2 hrs. This is looking pretty good.
73 de Mark N9XTN----- Original Message ----- From: "L. Paul Verhage" <nearsys@...> Date: Monday, October 6, 2008 8:58 am Subject: Re: [GPSL] Video Camera To: GPSL@yahoogroups.com > My test this week confirmed this. I was able to get 2 hours 3 minutes > before the battery ran out. The file size was 3.45 GB. The > battery gets > warm, so you could use the camera to help keep things warm.The > problem I ran > into was my PC didn't want to read the SDHC card. So I installed > the camera > driver and read the card through the camera. > > Paul > > On Sat, Oct 4, 2008 at 11:10 PM, Earl Foster <ebf306@...> wrote: > > > You should get 2 hours 19 minutes @ 1280 x 720 Pixels (H.264) > up to 30 fps > > with a 4Gb SD card according to my HD recorder. > > > > ---------- > > To: gpsl@yahoogroups.com > > From: nearsys@... > > Date: Sat, 4 Oct 2008 13:58:24 -0600 > > Subject: [GPSL] Video Camera > > > > I found the Jazz website. The camera is the HDV-178 and > allows up to a > > > 4 Gb SD card. By my calculations, that should allow two hours > of video. I > > > got about 33 minutes with a 1 Gb card. > > > > -- > > Onwards and Upwards, > > Paul > > > > > > > > > > > > ---------- > > Get more out of the Web. Learn 10 hidden secrets of Windows > Live. Learn > > > Now<http://windowslive.com/connect/post/jamiethomson.spaces.live.com-Blog-cns%21550F681DAD532637%215295.entry?ocid=TXT_TAGLM_WL_getmore_092008> > > > > > > > > > -- > Onwards and Upwards, > Paul >

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4771. Re: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 15:23:20 UTC
From: L. Paul Verhage
Topic: 4764 Message: 4771
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4772. RE: [GPSL] Video Camera

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 15:47:51 UTC
From: Earl Foster
Topic: 4764 Message: 4772

For still images the HDV178 can go up to 11 megs but video is the same for both units if I am not mistaken.

To: GPSL@yahoogroups.comFrom: nearsys@gmail.comDate: Mon, 6 Oct 2008 10:23:20 -0500Subject: Re: [GPSL] Video Camera

I'll need to recheck, but I believe the Jazz is 11 MP.Paul
On Mon, Oct 6, 2008 at 10:17 AM, Earl Foster <ebf306@...> wrote:

If you haven't purchased an HD video recorder you might want to take a look at DXG DXG-569V 5.0MP Digital Camcorder (http://www.radioshack.com/family/index.jsp?categoryId=2032121&cp=2032055&allCount=52&fbc=1&f=Brand%2F1000261%2F&fbn=Brand%2FDXG). It runs the same price as the Jazz and uses 3xAAA batteries of your choice. I have had very good results from their line of digital video recorders. I used their standard definition model for all my previous flights and the videos came out really nice. Planning to pick one up in the next couple of days. Not sure if it has external AC port but should not be any issue powering it with external batteries for extended life. Two leads coming out of the battery compartment connected to a regulated power source should do it. Anyway ... just another choice to consider if you are looking for a cheap HD video camera for your balloons

To: GPSL@yahoogroups.comFrom: mconner1@...: Mon, 6 Oct 2008 09:18:44 -0500

Subject: Re: [GPSL] Video Camera

Does the unit have an AC adapter that it can get power from? A couple minutes on Google yielded some indication that it can. You might be able to overcome the battery life limit with that using an external battery and get another ~15 min of record time.I'm hoping to have a camera that will give launch-to-landing video - most of my flights are right about 2 hrs. This is looking pretty good.73 de Mark N9XTN----- Original Message ----- From: "L. Paul Verhage" <nearsys@...> Date: Monday, October 6, 2008 8:58 am Subject: Re: [GPSL] Video Camera To: GPSL@yahoogroups.com > My test this week confirmed this. I was able to get 2 hours 3 minutes > before the battery ran out. The file size was 3.45 GB. The > battery gets > warm, so you could use the camera to help keep things warm.The > problem I ran > into was my PC didn't want to read the SDHC card. So I installed > the camera > driver and read the card through the camera. > > Paul > > On Sat, Oct 4, 2008 at 11:10 PM, Earl Foster <ebf306@...> wrote: > > > You should get 2 hours 19 minutes @ 1280 x 720 Pixels (H.264) > up to 30 fps > > with a 4Gb SD card according to my HD recorder. > > > > ---------- > > To: gpsl@yahoogroups.com > > From: nearsys@... > > Date: Sat, 4 Oct 2008 13:58:24 -0600 > > Subject: [GPSL] Video Camera > > > > I found the Jazz website. The camera is the HDV-178 and > allows up to a > > 4 Gb SD card. By my calculations, that should allow two hours > of video. I > > got about 33 minutes with a 1 Gb card. > > > > -- > > Onwards and Upwards, > > Paul > > > > ---------- > > Get more out of the Web. Learn 10 hidden secrets of Windows > Live. Learn > > Now<http://windowslive.com/connect/post/jamiethomson.spaces.live.com-Blog-cns%21550F681DAD532637%215295.entry?ocid=TXT_TAGLM_WL_getmore_092008> > > > > > > > -- > Onwards and Upwards, > Paul >

Get more out of the Web. Learn 10 hidden secrets of Windows Live. Learn Now -- Onwards and Upwards,Paul

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4773. Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 18:27:12 UTC
From: L. Paul Verhage
Topic: 4773 Message: 4773
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4774. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 18:32:37 UTC
From: L. Paul Verhage
Topic: 4773 Message: 4774
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4775. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 19:44:53 UTC
From: Michael Gray
Topic: 4773 Message: 4775

I would be very careful with this circuit design. It is a CC/CV regulator, but it doesn't have any of the other safety features required in a Li-Ion charger. These include a charge expiration timer, slope detector to determine when stop charging, bad cell detection, etc. TI and Maxim make single chip chargers with all the required safety stuff.

If the cells are mistreated they will burn. Just search on You Tube for Lithium Ion battery fires. I'm waiting for the first Prius to burn in someone's garage with a 1200 degree fire when the Chi-Com cells short out.

At least charge them on the garage floor with plenty of defensible space.

L. Paul Verhage wrote:
> Here's the URL for the circuit that Mark sent.
>
> http://shdesigns.org/lionchg.html
>
> Paul
>
> On Mon, Oct 6, 2008 at 1:29 PM, Greg Clark <greg@...
> <mailto:greg@...>> wrote:
>
> Hi Paul,
>
> Do you have a schematic to go along with this?
>
> -- Greg
>
> On Mon, Oct 6, 2008 at 11:27 AM, L. Paul Verhage <nearsys@...
> <mailto:nearsys@...>> wrote:
>
> Here's a screen capture I made of the lithium ion charger that
> Mark showed me. If you're interested, take a look at it to make
> sure I didn't make a mistake. Then I can send a copy of the
> board to anyone who is interested in making a charger for the
> batteries Mark is selling.
>
> --
> Onwards and Upwards,
> Paul
>
>

4776. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 20:25:23 UTC
From: Mark Conner
Topic: 4773 Message: 4776

Do you have any chips you recommend in DIP packaging? All the ones I've found so far will only handle single-cell configurations. It'd be nice to get something that would handle up to 3.

I know a lot more choices are to be had in SMDs but most of us aren't quite able to go that route.

73 de Mark N9XTN

----- Original Message -----
From: Michael Gray <mgray@...>
Date: Monday, October 6, 2008 2:45 pm
Subject: Re: [GPSL] Lithium Ion Charger
To: GPSL@yahoogroups.com

> TI and Maxim make single chip chargers with all the required safety
> stuff.

4777. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 20:32:02 UTC
From: Michael Gray
Topic: 4773 Message: 4777

I knew that was the next question. I looked after I sent out the
e-mail, but everything is surface mount. Although some are quad flat
pack or leaded devices. So even though they are surface mount, you can
hand solder them.

Another option is to purchase an evaluation kit. TI sells them for $49.

http://focus.ti.com/docs/toolsw/folders/print/bq24012evm.html

If you have 1 to N cells, what about charging a single cell at at time?
If you are going to put them in sockets, it wouldn't be hard, other
than requiring longer, to charge them one at a time. For a balloon
effort, requiring 12 hours to charge batteries isn't an unreasonable burden.

Mark Conner wrote:
> Do you have any chips you recommend in DIP packaging? All the ones I've found so far will only handle single-cell configurations. It'd be nice to get something that would handle up to 3.
>
> I know a lot more choices are to be had in SMDs but most of us aren't quite able to go that route.
>
> 73 de Mark N9XTN
>
> ----- Original Message -----
> From: Michael Gray <mgray@...>
> Date: Monday, October 6, 2008 2:45 pm
> Subject: Re: [GPSL] Lithium Ion Charger
> To: GPSL@yahoogroups.com
>
>> TI and Maxim make single chip chargers with all the required safety
>> stuff.
>

4778. Re: Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-06 22:12:17 UTC
From: k7rkt
Topic: 4773 Message: 4778

--- In GPSL@yahoogroups.com, Michael Gray <mgray@...> wrote:

> Another option is to purchase an evaluation kit. TI sells them for
$49.
>

I sell a single cell lithium charger along with the BeeLine telemetry
transmitters.

http://www.bigredbee.com/charger_info.htm

it's only about a 50ma charge rate, but it does plug directly into the
wall

4779. Fw: [Ballooning] AIBF Gas Balloons inflating

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-07 10:53:09 UTC
From: Ralph Wallio, W0RPK
Topic: 4779 Message: 4779

----- Original Message -----
From: "Jay Miller" <wa5whn@...>
To: <Ballooning@yahoogroups.com>
Sent: Monday, October 06, 2008 19:42
Subject: [Ballooning] AIBF Gas Balloons inflating

http://www.findu.com/cgi-bin/near.cgi?call=K5GAS-5

Click on stations nearby, you will see them all.

http://www.balloonfiesta.com/Balloon_Fiesta/schedule.html

The trackers will be on 144.390 using call signs K5GAS For the Coupe
Gordon Bennett & N5GAS for the America's Challenge.

Hams on board (usually the Pilot).

...Jay, W5WHN

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

4780. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 02:31:04 UTC
From: Mike Manes
Topic: 4773 Message: 4780

A parts list with reference designators, part numbers and values would
be helpful.

73 de Mike W5VSI

L. Paul Verhage wrote:
> Here's a screen capture I made of the lithium ion charger that Mark
> showed me. If you're interested, take a look at it to make sure I
> didn't make a mistake. Then I can send a copy of the board to anyone
> who is interested in making a charger for the batteries Mark is selling.
>
> --
> Onwards and Upwards,
> Paul
>
> --
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4781. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 02:37:45 UTC
From: Mike Manes
Topic: 4773 Message: 4781

An n-cell balancing charger will endeavor to equalize the charge on each cell in a series pack. Considering the long-term economy of using Li-ion vs primary cells, the purchase of a full-up COTS balancing charger should be easy to justify.

73 de Mike W5VSI

Michael Gray wrote:
> I knew that was the next question. I looked after I sent out the
> e-mail, but everything is surface mount. Although some are quad flat
> pack or leaded devices. So even though they are surface mount, you can
> hand solder them.
>
> Another option is to purchase an evaluation kit. TI sells them for $49.
>
> http://focus.ti.com/docs/toolsw/folders/print/bq24012evm.html
>
> If you have 1 to N cells, what about charging a single cell at at time?
> If you are going to put them in sockets, it wouldn't be hard, other
> than requiring longer, to charge them one at a time. For a balloon
> effort, requiring 12 hours to charge batteries isn't an unreasonable burden.
>
>
> Mark Conner wrote:
>> Do you have any chips you recommend in DIP packaging? All the ones I've found so far will only handle single-cell configurations. It'd be nice to get something that would handle up to 3.
>>
>> I know a lot more choices are to be had in SMDs but most of us aren't quite able to go that route.
>>
>> 73 de Mark N9XTN
>>
>> ----- Original Message -----
>> From: Michael Gray <mgray@...>
>> Date: Monday, October 6, 2008 2:45 pm
>> Subject: Re: [GPSL] Lithium Ion Charger
>> To: GPSL@yahoogroups.com
>>
>>> TI and Maxim make single chip chargers with all the required safety
>>> stuff.
>
> ------------------------------------
>
> Yahoo! Groups Links

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>

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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4782. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 03:01:34 UTC
From: Mark Conner
Topic: 4773 Message: 4782
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4783. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 04:56:22 UTC
From: Mike Manes
Topic: 4773 Message: 4783

Hi Mark,

On EOSS-132 flown last weekend, we replaced the 11 LiSO2 cells those payloads used to consume with Li-ion. At last buy, those primary cells would have cost us $22. The 1 to 4 cell balancing charger from All Battery cost $75 - and is expected to support 500 such flights before the Li-ions need replacement.

You run the numbers. And that doesn't take into account the effort to replace and dispose of the used primary cells.

EOSS is a non-profit, so we don't amortize such assets; they're booked at cost for their useful life.

73 de Mike W5VSI

Mark Conner wrote:
> Schematic contains this info:
>
> http://shdesigns.org/lionchg.html
>
> I've thought a little more about Mike's (KD7LMO) comments regarding
> chargers and did some more research. There are some older parts out
> there that provide under/overvolt protection, charge timeout, etc., and
> are in PDIP packages. There are a couple of TI parts that look
> promising, with relatively easy-to-find discretes making up the rest of
> the circuit.
>
> Mike W5VSI - any cost figures on a 2-n cell-balancing charger? EOSS may
> be able to amortize such a beast compared to Energizer lithium
> purchases, but I don't think I can. :)
>
> 73 de Mark N9XTN
>
> On Wed, Oct 8, 2008 at 9:31 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> A parts list with reference designators, part numbers and values would
> be helpful.
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> > Here's a screen capture I made of the lithium ion charger that Mark
> > showed me. If you're interested, take a look at it to make sure I
> > didn't make a mistake. Then I can send a copy of the board to anyone
> > who is interested in making a charger for the batteries Mark is

> selling.
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
> --
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
> ----------------------------------
>
> Yahoo! Groups Links
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>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4784. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 04:24:02 UTC
From: Mark Conner
Topic: 4773 Message: 4784
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4785. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 13:23:20 UTC
From: L. Paul Verhage
Topic: 4773 Message: 4785
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4786. Lithium Poly Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 17:29:10 UTC
From: L. Paul Verhage
Topic: 4786 Message: 4786
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4787. Re: [GPSL] Lithium Poly Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-09 23:19:21 UTC
From: Harry M
Topic: 4786 Message: 4787

Why re-invent the wheel? You might want to look at some of the chargers and balancers that are already available in the hobby shops. I have an IntelliPeak ICE that I've used for a couple years and it does almost every kind and configuration of battery out there.

73 Harry KC5TRB

4788. Camera Mod

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-10 13:58:02 UTC
From: L. Paul Verhage
Topic: 4788 Message: 4788
Attachments: 3 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4789. RE: [GPSL] Camera Mod

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-10 15:49:38 UTC
From: Earl Foster
Topic: 4788 Message: 4789

Here is document on modifiying the Nikon Coolpix L series. The Nikon Coolpix L15, only available on ebay now, has optical image stabilization whereas the newer Coolpix use digital imaga stabilization.

http://www.hapb.net/HAPB3_files/CameraMods.htm

To: gpsl@yahoogroups.comFrom: nearsys@gmail.comDate: Fri, 10 Oct 2008 08:58:02 -0500Subject: [GPSL] Camera Mod

Here's a picture I took of the Digital Concepts camera I modified. When I shrank the image, it goofed up the text (I don't spell that badly). I've pointed out the four pads on the little PCB on top of the camera. You only need to solder to the shutter pad and ground. I didn't get the on/off pad to work correctly (I can shut off the camera, but I can't turn it on). I may try soldering to the four wire someday and see if that will switch it on.-- Onwards and Upwards,Paul

_____
See how Windows connects the people, information, and fun that are part of your life.
http://clk.atdmt.com/MRT/go/msnnkwxp1020093175mrt/direct/01/

4790. Tetrahedron balloon crash at AIBF

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-10 18:36:13 UTC
From: Mark Conner
Topic: 4790 Message: 4790

http://www.koat.com/cnn-news/17686555/detail.html
http://www.skychariot.com/tetrahedron/

This balloon appears to be owned by Keith Sproul WU2Z, co-author of WinAPRS. Unknown from the news reports of his status after this crash.

73 de Mark N9XTN

4791. Re:Tetrahedron balloon crash at AIBF

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-10 20:21:34 UTC
From: K. Mark Caviezel
Topic: 4790 Message: 4791

http://kob.com/article/stories/S614040.shtml?cat=10113

Caught on powerlines, fire in the basket. This is the worst case scenario for hot air ballooning. I helped Keith inflate and launch on Saturday, sounds like he's in tough condition now and the other occupant of the balloon basket didn't make it.

- Mark

4792. Keith Sproul WU2Z of WinAPRS in critical condition after balloon crash

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-10 22:35:38 UTC
From: wb8elk@aol.com
Topic: 4792 Message: 4792

I looked at the footage of the terrible hot-air balloon crash in Albuquerque, NM and immediately recognized it as Keith Sproul's homebuilt tetroon. I last saw him at the Dayton Hamvention where he showed me photos of this unique hot-air balloon. Keith WU2Z and Mark Sproul KB2ICI are the co-authors of WinAPRS and MacAPRS.

According to the news reports I can find, he is in critical condition after having fallen from his balloon gondola after hitting power lines. Another person in the gondola did not survive the accident.

Anyone having more info on his condition, please forward to the lists.

- Bill WB8ELK

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4793. Re: [Balloonatics] Keith Sproul WU2Z of WinAPRS in critical condition after balloon crash

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-11 01:20:26 UTC
From: Joe
Topic: 4792 Message: 4793

Oh My Gosh!

Any more details Bill?

I haven't talked to Keith or Mark in geez,,15+ years? They were brought
to me, way back when in our early ballooning days.
A guy in Illinois KA9NHL Dave Chesser Worked with them on our first
balloon payload that had APRS onboard. They even were here at the
launch, This was when it was still all Mac stuff, I had no capability
to run Mac stuff but Dave NHL did.

I remember them having a blast during the flight. I still have the GPS
unit that we used that day, So funny how the technology has changed I
have a gps on my desk that is maybe 1.5" square and 1/4' thick

This one we flew with the brothers, was a assembly of two PC boards
stacked with spacer standoffs. both boards were totally populated. and
get this,, it is 4" wide by 10" long!

wow huh?

Joe WB9SBD

wb8elk@... wrote:

>I looked at the footage of the terrible hot-air balloon crash in
>Albuquerque, NM and immediately recognized it as Keith Sproul's homebuilt tetroon. I
>last saw him at the Dayton Hamvention where he showed me photos of this unique
>hot-air balloon. Keith WU2Z and Mark Sproul KB2ICI are the co-authors of
>WinAPRS and MacAPRS.
>
>According to the news reports I can find, he is in critical condition after
>having fallen from his balloon gondola after hitting power lines. Another
>person in the gondola did not survive the accident.
>
>Anyone having more info on his condition, please forward to the lists.
>
>- Bill WB8ELK
>
>**********New MapQuest Local shows what's happening at your destination.
>Dining, Movies, Events, News & more. Try it out
>(http://local.mapquest.com/?ncid=emlcntnew00000002)
>
>
>[Non-text portions of this message have been removed]

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>Yahoo! Groups Links
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4794. Re: [Balloonatics] Keith Sproul WU2Z of WinAPRS in critical condition after ball

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-11 03:37:48 UTC
From: Ron Malinowski, Jr.
Topic: 4792 Message: 4794

It was Keith Sprouls balloon. Keith is in ICU with severe burns. It was a crew person that lost
his life this morning. My thoughts and prayers go out to both families, and to Keith.

4795. Fw: Tetrahedron balloon crash at AIBF

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-11 04:53:50 UTC
From: Joe Lynch
Topic: 4795 Message: 4795

Dear Bill, et. al,

According to this KOB story (see link below):

"Sproul, a pilot with 10 years flying experience, was airlifted to University of New Mexico Hospital with serious injuries including a broken leg, broken hip, punctured lungs and burns to the face.

"He underwent surgery Friday afternoon. Sproul's brother said the injured pilot's condition has been upgraded.

"'The good news, he's been upgraded from critical to serious, he's got burns to the face, a broken femur, a broken hip, and punctured lungs.'"

http://kob.com/article/stories/S613785.shtml?cat=516

I add my thoughts and prayers for Keith's recovery and for his family, as well as for the family of Stephen Lachendro.

My thanks go to Harry Mueller for forwarding the above link.

Sincerely,

Joe Lynch, N6CL
Editor, CQ VHF magazine
VHF Editor, CQ magazine

4796. Aircraft ID on APRS network?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-11 17:32:37 UTC
From: Ron Malinowski, Jr.
Topic: 4796 Message: 4796

I have a quick question cause I have seen aircrafts appearing on the APRS network, and I think its great to watch, but they are not using an amateur call sign, they are using there FAA
plane ID as there callsign on the APRS transmission. I question if this is legal cause if you are
transmission over APRS in the ham band, then I would think you would have to use your amateur call sign, and maybe put your aircraft ID in a comment text, etc. Could anyone comment.

Thanks, Ron

4797. Re: [GPSL] Aircraft ID on APRS network?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-11 20:21:40 UTC
From: Mark Conner
Topic: 4796 Message: 4797
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4798. Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-11 21:36:00 UTC
From: L. Paul Verhage
Topic: 4798 Message: 4798
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4799. RE: [GPSL] Aircraft ID on APRS network?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-12 05:25:00 UTC
From: Wayne Helms
Topic: 4796 Message: 4799

Not legal to do so what are the tail number's

Kc5wxc

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Ron Malinowski, Jr.
Sent: Saturday, October 11, 2008 12:33 PM
To: GPSL@yahoogroups.com
Subject: [GPSL] Aircraft ID on APRS network?

I have a quick question cause I have seen aircrafts appearing on the APRS network, and I
think its great to watch, but they are not using an amateur call sign, they are using there FAA
plane ID as there callsign on the APRS transmission. I question if this is legal cause if you are
transmission over APRS in the ham band, then I would think you would have to use your
amateur call sign, and maybe put your aircraft ID in a comment text, etc. Could anyone
comment.

Thanks, Ron

4800. High Altitude Balloon Launch @ North Star District Camporee & JOTA

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-12 22:42:22 UTC
From: Keith Kaiser
Topic: 4800 Message: 4800

Near Space Ventures will launch a 1500g, Hydrogen filled High Altitude Balloon on Sunday, October 19th, at aproxamatley 8:30a.m. Central time as part of the North Star District BSA Camporee & Jamboree On The Air (JOTA) 2009 event.

Launch Site:
Smithville Lake, MO @ 39.41585N -094.50503W

Onboard APRS on 144.390Mhz,

Call Sign: WØNSV-11

You can follow the balloons location, altitude and speed from the Internet by clicking on; http://aprs.fi/?call=w0nsv-11 after launch on the day of the flight.

Simplex Repeater: 147.555Mhz/100PL --> The tone is critical to keep the repeater out of APRS

See http://bsaroundtable.org/wa0tjt.html for more information, or contact Keith at kcscouter@...

We will also have at least two HF stations operating during the JOTA weekend, including examples of digital (PSK31, Hellschreiber, etc), VHF/UHF, satellite and slow scan TV. Join us in person, online or on the air for a great weekend of Ham Radio.

Look for us on all the;

World Scout Frequencies found at http://bsaroundtable.org/wa0tjt.html

4801. RE: [GPSL] Aircraft ID on APRS network?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 00:21:57 UTC
From: Troy Campbell
Topic: 4796 Message: 4801

You could use the tail number as a tactical call sign as long as you had your FCC callsign in "FROM" field.

--- On Sun, 10/12/08, Wayne Helms <kc5wxc@...> wrote:
From: Wayne Helms <kc5wxc@...>
Subject: RE: [GPSL] Aircraft ID on APRS network?
To: GPSL@yahoogroups.com
Date: Sunday, October 12, 2008, 12:25 AM

Not legal to do so what are the tail
number’s

Kc5wxc

From: GPSL@yahoogroups. com [mailto: GPSL@yahoogroups. com]
On Behalf Of Ron Malinowski, Jr.

Sent: Saturday, October 11, 2008
12:33 PM

To: GPSL@yahoogroups. com

Subject: [GPSL] Aircraft ID on
APRS network?

I have a quick question cause I have seen aircrafts
appearing on the APRS network, and I

think its great to watch, but they are not using an amateur call sign, they are
using there FAA

plane ID as there callsign on the APRS transmission. I question if this is
legal cause if you are

transmission over APRS in the ham band, then I would think you would have to
use your

amateur call sign, and maybe put your aircraft ID in a comment text, etc. Could
anyone

comment.

Thanks, Ron

4802. Re: [GPSL] Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 05:07:57 UTC
From: Mike Manes
Topic: 4798 Message: 4802

Hi Paul,

Any TTL or CMOS xtal oscillator running at a subharmonic of the desired
2m freq can be used for this app. But it can only be modulated in CW
by switching 5V (or 3V) power on an off. Just connect a half-wave dipole to
the output and gnd pins. Mouser, Jameco and DigiKey all carry a variety
of off-shelf freqs. Just avoid the ones commonly used in computers and
video monitors if you plan on using one for a DF beacon - did that once
and almost lost the flight, since the sig was wiped out by QRM in every
town we ran thru! IIRC, it ran somewhere in the 27 MHz range and is used
in many SVGA monitors.

73 de Mike W5VSI

L. Paul Verhage wrote:
> I'm looking for a schematic for a clock crystal 2m QRP transmitter.
> I've seen these before, they cut the antenna for 2m and take the 5th
> harmonic. But I'll be darn if I can find a schematic now. Does anyone
> recall seeing a schematic for one of these radios?
>
> I'd like to try using a PICAXE to operate the clock crystal to generate
> a weak beacon with my call sign.
>
> Thanks
>
> --
> Onwards and Upwards,
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4803. Re: [GPSL] Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 05:45:42 UTC
From: wb8elk@aol.com
Topic: 4798 Message: 4803

Paul,

Any of the clock oscillators will work...but the ones in metal cans are the ones I've used before with good results....I use the ones on 10 meters and they put out about 50 milliwatts on the fundamental frequency....the 2 meter harmonic is about 2 milliwatts. Typically the cheap ones that are readily available are on 29.491 MHz which gives you a 2 meter output on 147.455 MHz. If you feed this into a 2 meter antenna, it'll work decent enough for copy from a balloon. Some of the ones from Digikey will allow you to customize your frequency when ordered (they program them on the spot at Digikey) but be aware that I've found some of these that seem to have lots of phase noise when used in this manner.

For custom frequencies, the ones I've used quite successfully are from Cal Crystal Labs and cost about $11 (3 week lead time though)...more expensive if you need them quicker. That way you can choose your own frequency. I prefer to use 48 MHz for this since the 3rd harmonic on 2 meters is fairly strong.

By the way, it is possible to directly AM modulate a clock oscillator module...I published a circuit in Radio Fun magazine about 18 years ago and it's very high fidelity audio. I use that circuit on 10 meters and have flown it successfully many times. I'll try to scan in the schematic for you. They are also great for CW. I had one on the very first flight from the group that went on to found EOSS that I could copy 1500 miles away in New Hampshire while it sat on the ground in Colorado. Of course, that was at the peak of the solar cycle and you could practically shout out the window and have it bounce off the ionosphere back then. Bob Moody K7IRK worked all states using one of these clock oscillators by itself hooked directly to his 10 meter beam. It's called the Fireball....I published that article in the July 1990 issue of 73 magazine.

- Bill WB8ELK

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4804. Re: [GPSL] Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 13:28:51 UTC
From: L. Paul Verhage
Topic: 4798 Message: 4804
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4805. Re: [GPSL] Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 17:13:27 UTC
From: L. Paul Verhage
Topic: 4798 Message: 4805
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4806. Re: [GPSL] Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 17:22:41 UTC
From: L. Paul Verhage
Topic: 4798 Message: 4806
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4807. RE: [GPSL] Aircraft ID on APRS network?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 18:01:28 UTC
From: Wayne Helms
Topic: 4796 Message: 4807

Maybe true if the plane was airborne but don't think the FAA would like to see a plane moving in areas not so designed for like the streets etc. we had a guy using a tail # here running aprs and did not even have a amateur call(non ham) and several agency's were not happy at all.....

From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Troy Campbell
Sent: Sunday, October 12, 2008 7:22 PM
To: GPSL@yahoogroups.com
Subject: RE: [GPSL] Aircraft ID on APRS network?

You could use the tail number as a tactical call sign as long as you had your FCC callsign in "FROM" field.

--- On Sun, 10/12/08, Wayne Helms <kc5wxc@...> wrote:

From: Wayne Helms <kc5wxc@...>
Subject: RE: [GPSL] Aircraft ID on APRS network?
To: GPSL@yahoogroups.com
Date: Sunday, October 12, 2008, 12:25 AM

Not legal to do so what are the tail number?s

Kc5wxc

From: GPSL@yahoogroups. com [mailto: GPSL@yahoogroups. com] On Behalf Of Ron Malinowski, Jr.
Sent: Saturday, October 11, 2008 12:33 PM
To: GPSL@yahoogroups. com
Subject: [GPSL] Aircraft ID on APRS network?

I have a quick question cause I have seen aircrafts appearing on the APRS network, and I
think its great to watch, but they are not using an amateur call sign, they are using there FAA
plane ID as there callsign on the APRS transmission. I question if this is legal cause if you are
transmission over APRS in the ham band, then I would think you would have to use your
amateur call sign, and maybe put your aircraft ID in a comment text, etc. Could anyone
comment.

Thanks, Ron

4808. Re: [GPSL] Quartz Crystal Radio

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-13 21:20:21 UTC
From: Mike Manes
Topic: 4798 Message: 4808

Well, yeah - the thru-hole versions typically fit in a 14-pin DIP socket, pins 1,7,8 and 14. But it's not just a crystal (some xtals are supplied in that package) but a complete xtal oscillator with CMOS or TTL output drive levels. There are also smaller ones that fit in an 8-DIP pattern as well even smaller SMT versions.
73 de Mike W5VSI

L. Paul Verhage wrote:
> It's the four pin crystals, right?
>
> Paul
>
> On Mon, Oct 13, 2008 at 12:45 AM, <wb8elk@...
> <mailto:wb8elk@...>> wrote:
>
> Paul,
>
> Any of the clock oscillators will work...but the ones in metal
> cans are the ones I've used before with good results....I use the
> ones on 10 meters and they put out about 50 milliwatts on the
> fundamental frequency....the 2 meter harmonic is about 2 milliwatts.
> Typically the cheap ones that are readily available are on 29.491
> MHz which gives you a 2 meter output on 147.455 MHz. If you feed
> this into a 2 meter antenna, it'll work decent enough for copy from
> a balloon. Some of the ones from Digikey will allow you to customize
> your frequency when ordered (they program them on the spot at
> Digikey) but be aware that I've found some of these that seem to
> have lots of phase noise when used in this manner.
>
> For custom frequencies, the ones I've used quite successfully are
> from Cal Crystal Labs and cost about $11 (3 week lead time
> though)...more expensive if you need them quicker. That way you can
> choose your own frequency. I prefer to use 48 MHz for this since the
> 3rd harmonic on 2 meters is fairly strong.
>
> By the way, it is possible to directly AM modulate a clock
> oscillator module...I published a circuit in Radio Fun magazine
> about 18 years ago and it's very high fidelity audio. I use
> that circuit on 10 meters and have flown it successfully many times.
> I'll try to scan in the schematic for you. They are also great for
> CW. I had one on the very first flight from the group that went on
> to found EOSS that I could copy 1500 miles away in New Hampshire
> while it sat on the ground in Colorado. Of course, that was at the
> peak of the solar cycle and you could practically shout out the
> window and have it bounce off the ionosphere back then. Bob

> Moody K7IRK worked all states using one of these clock oscillators
> by itself hooked directly to his 10 meter beam. It's called the
> Fireball....I published that article in the July 1990 issue of 73
> magazine.
>
> - Bill WB8ELK
>
>
>
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>
>
>
>
> ---
> New *MapQuest Local* shows what's happening at your destination.
> Dining, Movies, Events, News & more. Try it out!
> <http://local.mapquest.com/?ncid=emlcntnew00000002>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4809. Re: [GPSL] Lithium Poly Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-14 02:31:06 UTC
From: Mike Manes
Topic: 4786 Message: 4809

LiPO and Li-ion are basically the same chemistry and thus take the same charge profile. However, LiPO doesn't tolerate low temps - the polymer electrolyte begins to freeze up not much below zero C. LiPO advantage is its thin profile, so one may be able to keep cells warm by taping them to payload heat sources e.g. radios, GPSs, etc.
73 de Mike W5VSI

L. Paul Verhage wrote:
> From a couple of websites I've seen so far, it looks like lipo
> batteires can be charged with t he same charger you use for lithium
> ion. Has anyone tried this?
>
> --
> Onwards and Upwards,
> Paul
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4810. Re: [GPSL] Lithium Poly Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-14 02:38:37 UTC
From: Mark Conner
Topic: 4786 Message: 4810
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4811. RE: [GPSL] Aircraft ID on APRS network?

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-14 16:16:31 UTC
From: Troy Campbell
Topic: 4796 Message: 4811

Dumb != illegal (in this case)

--- On Mon, 10/13/08, Wayne Helms <kc5wxc@...> wrote:
From: Wayne Helms <kc5wxc@...>
Subject: RE: [GPSL] Aircraft ID on APRS network?
To: GPSL@yahoogroups.com
Date: Monday, October 13, 2008, 1:01 PM

Maybe true if the plane was airborne but
don't think the FAA would like to see a plane moving in areas not so
designed for like the streets etc. we had a guy using a tail # here running
aprs and did not even have a amateur call(non ham) and several agency's
were not happy at all…….

From: GPSL@yahoogroups. com [mailto: GPSL@yahoogroups. com]
On Behalf Of Troy Campbell

Sent: Sunday, October 12, 2008
7:22 PM

To: GPSL@yahoogroups. com

Subject: RE: [GPSL] Aircraft ID on
APRS network?

You could use the tail number as a tactical call
sign as long as you had your FCC callsign in "FROM" field.

--- On Sun, 10/12/08, Wayne
Helms < kc5wxc@gmail. com >
wrote:
From: Wayne Helms < kc5wxc@gmail. com >

Subject: RE: [GPSL] Aircraft ID on APRS network?

To: GPSL@yahoogroups. com

Date: Sunday, October 12, 2008, 12:25 AM

Not legal to do so what are the tail number's

Kc5wxc

From: GPSL@yahoogroups. com [mailto:
GPSL@yahoogroups. com] On Behalf Of Ron
Malinowski, Jr.

Sent: Saturday, October 11, 2008
12:33 PM

To: GPSL@yahoogroups. com

Subject: [GPSL] Aircraft ID on
APRS network?

I have
a quick question cause I have seen aircrafts appearing on the APRS network,
and I

think its great to watch, but they are not using an amateur call sign, they
are using there FAA

plane ID as there callsign on the APRS transmission. I question if this is
legal cause if you are

transmission over APRS in the ham band, then I would think you would have to
use your

amateur call sign, and maybe put your aircraft ID in a comment text, etc.
Could anyone

comment.

Thanks, Ron

4812. New file uploaded to GPSL

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-14 18:34:27 UTC
From: GPSL@yahoogroups.com
Topic: 1529 Message: 4812

Hello,

This email message is a notification to let you know that
a file has been uploaded to the Files area of the GPSL
group.

File : /GPS18xPC_LVC_280.exe
Uploaded by : w0jrt <w0jrt@...>
Description : SW v2.80 for the GPS18xPC/LVC fixes 60k ft altitude problem

You can access this file at the URL:
http://groups.yahoo.com/group/GPSL/files/GPS18xPC_LVC_280.exe

To learn more about file sharing for your group, please visit:
http://help.yahoo.com/l/us/yahoo/groups/original/members/web/index.htmlfiles

Regards,

w0jrt <w0jrt@...>

4813. GPS18x 60kft altitude problem fixed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-15 01:17:06 UTC
From: w0jrt
Topic: 4813 Message: 4813

I noticed software version 2.80 for the GPS18x has been posted on
Garmin's web site. I've uploaded it to the files section of this
yahoo group. This should remove the 60,000 foot limit.

-Jerome, W0JRT

4814. Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-15 20:16:11 UTC
From: L. Paul Verhage
Topic: 4737 Message: 4814
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4815. RE: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-15 20:37:44 UTC
From: Earl Foster
Topic: 4737 Message: 4815

Maybe you should incorporate my new video stabilizing platform that I have been working on.

http://www.hapb.net/HAPB5.htm

To: gpsl@yahoogroups.comFrom: nearsys@...: Wed, 15 Oct 2008 15:16:11 -0500Subject: [GPSL] Balloon Launch

The Experimental Balloon Society at KU is planning their next launch for this Saturday, 7:30 AM, Kansas time. The call sign on the capsules should be K0KU, KD4STH, and KD4STH-11. The balloon is a 3,000 gram and all communications will be on 144.39.I'm carrying two new cameras on this flight and expect to get 4GB on one video file. I can't wait to see what MS Movie Maker will do that one! I suppose it's time to learn how to use Vegas.-- Onwards and Upwards,Paul

_____
Stay up to date on your PC, the Web, and your mobile phone with Windows Live.
http://clk.atdmt.com/MRT/go/msnnkwxp1020093185mrt/direct/01/

4816. Re: [GPSL] Balloon Launch

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-15 21:11:19 UTC
From: L. Paul Verhage
Topic: 4737 Message: 4816
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4817. BASE 30 - Successfully completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-16 19:45:50 UTC
From: BASE
Topic: 4817 Message: 4817

Dear all,

BASE 30 was successfully completed today. Launch at 10:15 UTC from the Julian Center roof on our campus. Four 1 W Red LEDs and two Lightman Xenon Strobes made for a pretty ascent. I will be posting pictures and video in the coming days.

Maximum altitude of 95,000 feet. Landing 100 miles from launch site at a heading of 80 degrees.

Recovery was in a soybean field that had been harvested on Tuesday. It was almost too easy.

FYI, the Garmin 18 that was exposed to the night sky froze at about 64,000 feet when the external temperature had stabilized at 250 Kelvin. That unit awoke from its suspended animation about 10 minutes before landing.

A similar Garmin 18 for the APRS unit was shielded under a 5 cm thick foam board lid and operated throughout the flight, although part of the descent was only 2-D information.

Our next flight (BASE 31) will be on November 20, and I hope to have a working float valve for that effort.

Additional information will be on the website:

www.depauw.edu/acad/physics/base

Take care,
Howard

4818. [Fwd: Hyperblimp Airship]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-22 01:11:59 UTC
From: Mike Manes
Topic: 4818 Message: 4818

Interesting low-altitude balloonish thingy. Note that it's basically
a super-pressure envelope, so it operates a pretty much a fixed
pressure altitude. It's also a UAV, and as such, it must stay
under 700 ft AGL like an R/C model to avoid the FAA's draconian
UAV rules.

73 de Mike W5VSI

-------- Original Message --------
Subject: Hyperblimp Airship
Date: Tue, 21 Oct 2008 16:41:38 UT
From: Engineering TV <EngineeringTV@...>
Reply-To: EngineeringTV@...
To: mrmanes@...

View this email as a Web page
<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711831-0-0-0-1-2-192>

Please add ED_Engineering TV_ to your Safe Sender list.
<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711832-0-0-0-1-2-192>

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<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711833-0-0-0-1-2-192>

Digi-Key
<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711834-0-0-0-1-2-192>

National Instruments
<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711835-0-0-0-1-2-192>

Analog Devices
<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711836-0-0-0-1-2-192>

A Penton Media Property
October 21, 2008

* * *Hyperblimp Airship
<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711838-0-0-0-1-2-192>*

<http://ct.email.engineeringtv.com/rd/cts?d=33-16162-894-433-2752-1711839-0-0-0-1-2-192>

Flying Sensor's partnership with Hyperblimp allows them to provide a
highly efficient and patented airship design capable of autonomous as
well as remote controlled flight. The Hyperblimp is an
ultra-streamlined, low drag, helium-filled airship that slips through
the air, rather than pushing it aside. It is propelled by a central axis
rear propeller, capable of moving in any direction. The airship utilizes
brushless motors and lithium polymer batteries, and can achieve very

long flight times through the use of solar power or fuel cells. This system can be equipped with a full suite of sensors and cameras. The Hyperblimp also makes an excellent aerial photography and aerial video platform. The Hyperblimp is lightweight, portable, and deployable in nearly any environment.

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--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4819. Re: [GPSL] Lithium Ion Charger

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-23 04:32:06 UTC
From: Mike Manes
Topic: 4773 Message: 4819

Hi Mark,

No, the one I got was in a grey case and cost just $75, otherwise it looks
the same.

BTW, I did post a review of the one I got, griping about the
Chinklish user manual and its lack of detail about some apparent "undocumented
features", e.g., differing behavior between short and long pushes of the
start/stop button. Another user wrote back, complaining about the one
shown in your link, the white one, saying it didn't balance and terminated
charge well before the cells hit 4.20v. So in that light and the much
greater price of All Battery's current offering, I'd recommend looking
elsewhere.

I'm quite happy with the performance of my "grey" version, however.

73 de Mike W5VSI

Mark Conner wrote:
> I didn't mean 'amortize' in the proper sense, but whether it would save
> enough money to justify the cost of the unit and batteries, plus time to
> assemble and test the packs. I was also expecting a charger cost of
> closer to $200, too.
>
> Is this the unit EOSS has?
> http://www.all-battery.com/micro-controlledli-poli-ionbalancechargerwlcddisplay.aspx
>
> I figured it'd pay for EOSS since you have many more flights and
> power-hungry doodads than I do (if it didn't make financial sense, you
> probably wouldn't have bought it!).
>
> Are the details on your Li-ion packs posted on the EOSS site, esp.
> wiring and cell type?
>
> As much fun as kits and PCBs are, a unit like this is hard to beat for
> the price and capability.
>
> 73 de Mark N9XTN
>
>
> On Wed, Oct 8, 2008 at 11:56 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Mark,
>
> On EOSS-132 flown last weekend, we replaced the 11 LiSO2 cells those

> payloads used to consume with Li-ion. At last buy, those primary
> cells would have cost
> us $22. The 1 to 4 cell balancing charger from All Battery cost $75
> - and
> is expected to support 500 such flights before the Li-ions need
> replacement.
>
> You run the numbers. And that doesn't take into account the effort
> to replace
> and dispose of the used primary cells.
>
> EOSS is a non-profit, so we don't amortize such assets; they're
> booked at cost
> for their useful life.
>
> 73 de Mike W5VSI
>
> Mark Conner wrote:
>
> Schematic contains this info:
> http://shdesigns.org/lionchg.html
> I've thought a little more about Mike's (KD7LMO) comments
> regarding chargers and did some more research. There are some
> older parts out there that provide under/overvolt protection,
> charge timeout, etc., and are in PDIP packages. There are a
> couple of TI parts that look promising, with relatively
> easy-to-find discretes making up the rest of the circuit. Mike
> W5VSI - any cost figures on a 2-n cell-balancing charger? EOSS
> may be able to amortize such a beast compared to Energizer
> lithium purchases, but I don't think I can. :)
>
> 73 de Mark N9XTN
> On Wed, Oct 8, 2008 at 9:31 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...> <mailto:mrmanes@...
> <mailto:mrmanes@...>>> wrote:
>
> A parts list with reference designators, part numbers and
> values would
> be helpful.
>
> 73 de Mike W5VSI
>
> L. Paul Verhage wrote:
> > Here's a screen capture I made of the lithium ion charger
> that Mark
> > showed me. If you're interested, take a look at it to
> make sure I
> > didn't make a mistake. Then I can send a copy of the
> board to anyone
> > who is interested in making a charger for the batteries

> Mark is
> selling.
> >
> > --
> > Onwards and Upwards,
> > Paul
> >
> >
>
> --
> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...>
> <mailto:mrmanes@... <mailto:mrmanes@...>> Tel:
>
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> <mailto:GPSL-digest@yahoogroups.com
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> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."
A. Einstein

4820. Rechargeable Batteries & Battery Chargers - Universal Smart TLP2000 Charger for Li-Ion/Polymer battery Pack (3.7V - 14.8V, 1-4 cells) with 2-6 Cell Lipo Pack Balancer

Yahoo group: GPSL (2002 — 2008)
Date: 2008-10-23 04:42:00 UTC
From: Mike Manes
Topic: 4820 Message: 4820

Ref my recent post re the All Battery Li-ion charger/balancer:
All-battery offers a 2-piece charger and balancer for $53 which, per specs,
should do a pretty good job on 1 thru 4 cell series packs, altho it's
limited to 500 mA, so a full charge may take a long time. But who flies
that often, anyway?

73 de Mike W5VSI
CTO EOSS

http://www.all-battery.com/universalsmarttlp2000chargerforli-ionpolymerbatterypack37v-148v1-4cellswith2-6celllipopackbalancer.aspx
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4821. Re: [GPSL] Spirit of Knoxville balloon

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-02 17:05:17 UTC
From: Ryan Butler
Topic: 4078 Message: 4821

Hey guys and gals,

The spiritofknoxville site hasn't been updated in a while, anyone have any news on when flights might resume now that late/fall winter is approaching?

Ryan, NF0T

Dan Bowen wrote:
>
> Thanks for your well wishes Mark! Stay tuned for SNOX V.
>
> Thanks,
> Dan
> K2VOL
>
> On Mar 11, 2008, at 10:01 AM, Mark Conner wrote:
>
>> At 1301 UTC, the balloon was at 39,166 ft about 400 mi NNE of
>> Bermuda. I did a quick trajectory calculation using a near-constant
>> altitude and it shows the balloon passing over the French coast
>> around 15/0200 UTC (Wed evening US time) and then ESE near Paris
>> around 06 UTC, then western Switzerland, northern Italy, and the
>> Adriatic.
>>
>> Good luck to the UTARC crew.
>>
>> 73 de Mark N9XTN
>>
>> <15918_trj001.gif>
>
>

4822. [Fwd: [Ballooning] Balloon Crash news article]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-12 23:27:02 UTC
From: Mike Manes
Topic: 4822 Message: 4822

-------- Original Message --------
Subject: [Ballooning] Balloon Crash news article
Date: Wed, 12 Nov 2008 15:20:03 -0600
From: plilja@...
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com
References: <49C0AEEC-9507-49B9-910D-06FFCE5F83DE@...>
<cca963810811121213r19e93397vda0c239bba9cf10c@...>

I live in NE Iowa and this was today's newspaper headline story:
http://wcfcourier.com/articles/2008/11/12/news/local/doc491ad361def8d628366385.txt

I know some of the folks on this list were friends with the victims of
this crash. I don't mean to stir up anything here. I simply want to
share the local coverage to this incident.

Pete

To start sending messages to members of this group,
simply send email to

Ballooning@yahoogroups.com

If you do not wish to belong to Ballooning, you may
unsubscribe by sending an email to

Ballooning-unsubscribe@yahoogroups.com

You may also visit the eGroups web site to modify your
subscriptions:

http://groups.yahoo.com/group/Ballooning

To email the list Owner, just send a message to the
following address:

Ballooning-owner@yahoogroups.com

Regards,

Moderator, Ballooning

Yahoo! Groups Links

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

4823. LASA-3 sets #2 ARHAB Altitude Record of 122,323ft

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-16 13:18:46 UTC
From: Ralph Wallio, W0RPK
Topic: 4823 Message: 4823

LASA-3 (http://greatballoonchase.ca/) set our new #2 ARHAB Altitude Record on Saturday, 15Nov08.
Information from http://aprs.fi/?call=VE3REX-11&mt=m&z=11&timerange=86400:

VE3REX-11 - info
2008-11-15 16:23:36z - 2008-11-15 16:24:27z
62 MPH 129? alt 122323 ft
LASA (613) 812-6907

TNX es 73 de Ralph Wallio, W?RPK
W0RPK@... W0RPK@... W0RPK@...
http://showcase.netins.net/web/wallio/
Hubbert's Peak - The Mother of all Perfect Storms

4824. BASE31 - 20 November

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-17 23:31:41 UTC
From: BASE
Topic: 4824 Message: 4824

Dear friends,

We've had to make a few adjustments to our flight plans for Thursday's flight.

Launch will be at 17:00 UT (12:00 Eastern time) from the North Montgomery School Corporation (40.12 N,-86.91 W).

Ascent at 1500 feet/min. Burst at 95,000 feet.

Landing at 18:40 UT near Cambridge City, IN (39.79 N,-85.23 W).

Great circle distance of 92 miles!

In addition to the student science payloads (cameras,dual axis geiger counters,and tilt sensor), flown in a spin reducing configuration, we will be flight testing a new radio and GPS built by Ron Malinowski. Ron's radio is the MicroTrak 300 and the GPS is the Garmin 18x with the revised firmware. Ron's radio will use his call sign N9QGS-11. Hopefully it will work above 60 kft.

Our plan calls for W9YJ-11 to beacon near the even minute and N9QGS-11 to transmit on the odd minute. We will also fly the 900 MHz spread spectrum radio.

The corn and beans are almost all in the barn. Looks like we'll have to find a tree:)

I'll report back post-flight.

Howard

4825. BASE31 - almost complete

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-21 03:47:37 UTC
From: BASE
Topic: 4825 Message: 4825

Dear friends,

BASE 31 was an exciting flight. The balloon fill under 25-30 mph winds and air temperatures of 34 degrees Fahrenheit kept our heart pumping even if our hands were cold. Liftoff at 17:54 UTC. Jetstream speeds exceed 145 mph! Maximum altitude of 85000 feet. Burst occurred at 19:17 UTC. Landing happened just before 20:00 UTC in the median of I-70 just west of EXIT 14 near Lewisburg,Ohio. Ron,N9QGS, picked up the payloads that had been spotted by another amateur radio operator. (Will post the photo later.)

When the BASE recovery vehicle met Ron in Richmond,IN, we confirmed the reason for no signal from W9YJ-11. All that was attached to the payload strings were the carbon fiber tubes that formerly went through the foam enclosure. Reviewing the APRS data led us to Greens Fork, IN (near to landing of BASE 30). We patrolled the area, but did not hear a signal (the radio impacted at 50 mph). As we were departing the area, we did receive a signal. The GPS data was only 2-D, and the exact location shifted by a few hundred yards as we walked through harvested corn fields. I'll return tomorrow to search in the daylight.

Most importantly, the Garmin 18X in Ron's N9QGS-11,worked perfectly in the ascent phase to 85,000 feet. The system did not get a good GPS lock for the first 16 minutes of descent, but performed flawlessly for the remainder of the flight.

More information to follow on www.depauw.edu/acad/physics/base

Thanks for your support,
Howard

4826. BASE 31

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-21 07:19:11 UTC
From: Ron Malinowski, Jr.
Topic: 4826 Message: 4826

Howard summarized the excitement of todays balloon launch. Hope howard can fidn the missing package :-) We lost daylight too quickly and it was snowing. But I have a question for the general group I got input from Howard, as you know we were testing the GPS 18x for the 60K issue, we did get above this without any problems, but we did get a lockup on data updating and altitude/sped/heading reporting zero. this was after burst, I know we had some high winds and were moving over 120 mph at times. but trying to get an understanding what possibly made it lock on decent, question if there is still a concern with the new firmware, or were we meeting some other criteria that could cause this? anyone have a list of the criteria that puts it in this mode? I dont believe the GPS can loose lock, but also the W9YJ-11 that free fell is still beaconing but its reporting all zeros
for altitude, which again I question what i causing that, so Im hoping to hear some knowledge.

2008-11-20 19:17:40 UTC: N9QGS-11>APT311,W8LCZ,W8GUC,WIDE2*,qAR,KD8AIV-H:/191657h3956.24N/08524.70WO322/022/A=085024
2008-11-20 19:18:58 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KG8AP:/191857h3956.64N/08524.46WO000/000/A=000000/Garmin 18x
2008-11-20 19:21:00 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-1:/192059h3956.64N/08524.46WO000/000/A=000000
2008-11-20 19:21:45 UTC: N9QGS-11>APT311,K1DE-5,W8OAK-13*,WIDE2,qAR,W8FSM-5:/191857h3956.64N/08524.46WO000/000/A=000000/Garmin 18x
2008-11-20 19:22:51 UTC: N9QGS-11>APT311,K1DE-5,W8OAK-13*,WIDE2,qAR,W8FSM-5:/192059h3956.64N/08524.46WO000/000/A=000000
2008-11-20 19:22:59 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-1:/192258h3956.64N/08524.46WO000/000/A=000000
2008-11-20 19:23:30 UTC: N9QGS-11>APT311,WIDE2-1,KB9YVN,qAS,KB9YVN:/191458h3956.20N/08524.36WO225/006/A=083078 [Duplicate position packet]
2008-11-20 19:24:59 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-1:/192458h3956.64N/08524.46WO000/000/A=000000
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2008-11-20 19:28:58 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-1:/192857h3956.64N/08524.46WO000/000/A=000000
2008-11-20 19:31:00 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-1:/193059h3956.64N/08524.46WO000/000/A=000000
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2008-11-20 19:32:23 UTC: N9QGS-11>APT311,WIDE2-1,KB9YVN,qAS,KB9YVN:/192458h3956.64N/08524.46WO000/000/A=000000
2008-11-20 19:32:59 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-

1:/193258h3954.75N/08505.61WO095/129/A=031159 [Location changes too fast (>500 km/h)]
2008-11-20 19:33:44 UTC: N9QGS-11>APT311,K9APR-5,W8GUC,WIDE2*,qAR,KD8AIV-H:/193258h3954.75N/08505.61WO095/129/A=031159
2008-11-20 19:34:41 UTC: N9QGS-11>APT311,WIDE2-1,KB9YVN,qAS,KB9YVN:/192657h3956.64N/08524.46WO000/000/A=000000 [Location changes too fast (>500 km/h)]
2008-11-20 19:34:59 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-1:/193457h3954.32N/08500.40WO095/126/A=027832 [Location changes too fast (>500 km/h)]

4827. Re: [GPSL] BASE31 - almost complete

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-21 13:54:39 UTC
From: BASE
Topic: 4825 Message: 4827

Dear Mike,

The foam core box was manufactured by StratoStar. I have flown several of their boxes including our primary 900 MHz spread spectrum flight computer. This is the first failure of the tubing pulling that I have had. We have flown approximately 70 boxes with the configuration, plus another 70 of our own construction with different tubes (typically nylon).

Jeff Dailey would be able to confirm this, but I believe that all of the tubes were secured with 2 hour epoxy.

Howard

--- On Fri, 11/21/08, Mike Manes <mrmanes@...> wrote:

> From: Mike Manes <mrmanes@...>
> Subject: Re: [GPSL] BASE31 - almost complete
> To: basedepauw@...
> Date: Friday, November 21, 2008, 12:33 AM
> Hi Howard,
>
> What was used to attach the thru tubes to the foam
> enclosures? Sounds
> like yet another victim of the Dreaded PBC!
>
> EOSS uses threaded tubes with nylon fender washers and nuts
> on the foamcore
> enclosures with excellent results. OTOH, we did lose Bill
> Brown's camera that
> was epoxied to the outside of an enclosure during one of
> our early flights,
> and several student payloads that have relied on glue alone
> have taken a
> shortcut back to earth.
>
> 73 de Mike W5VSI
>
> BASE wrote:
> > Dear friends,
> >
> > BASE 31 was an exciting flight. The balloon fill
> under 25-30 mph winds and air temperatures of 34 degrees
> Fahrenheit kept our heart pumping even if our hands were
> cold. Liftoff at 17:54 UTC. Jetstream speeds exceed 145
> mph! Maximum altitude of 85000 feet. Burst occurred at 19:17
> UTC. Landing happened just before 20:00 UTC in the median of

> I-70 just west of EXIT 14 near Lewisburg,Ohio. Ron,N9QGS,
> picked up the payloads that had been spotted by another
> amateur radio operator. (Will post the photo later.)
> >
> > When the BASE recovery vehicle met Ron in Richmond,IN,
> we confirmed the reason for no signal from W9YJ-11. All
> that was attached to the payload strings were the carbon
> fiber tubes that formerly went through the foam enclosure.
> Reviewing the APRS data led us to Greens Fork, IN (near to
> landing of BASE 30). We patrolled the area, but did not
> hear a signal (the radio impacted at 50 mph). As we were
> departing the area, we did receive a signal. The GPS data
> was only 2-D, and the exact location shifted by a few
> hundred yards as we walked through harvested corn fields.
> I'll return tomorrow to search in the daylight.
> >
> > Most importantly, the Garmin 18X in Ron's
> N9QGS-11,worked perfectly in the ascent phase to 85,000
> feet. The system did not get a good GPS lock for the first
> 16 minutes of descent, but performed flawlessly for the
> remainder of the flight.
> >
> > More information to follow on
> www.depauw.edu/acad/physics/base
> >
> > Thanks for your support,
> > Howard
> -- Mike Manes mrmanes@... Tel: 303-979-4899
> "Things should be made as simple as possible, but not
> more so."
> A. Einstein

4828. Re: [GPSL] BASE 31

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-21 16:57:30 UTC
From: Mike Manes
Topic: 4826 Message: 4828

Since it seems your GPS payload broke free from the flight string shortly
after burst, then it most likely tumbled such that the GPS antenna never
got a long enough view of enough of the constellation to establish a solid
fix. And it's entirely possible that it accelerated past Mach 1.0 in the
thin air at altitude, which would have invoked the anti-Scud rule. Further,
the process of tearing free may have damaged or disconnected the GPS antenna.

The problem thus appears more likely to be payload enclosure robustness than
a GPS performance issue.

73 de Mike W5VSI
CTO EOSS

Ron Malinowski, Jr. wrote:
> Howard summarized the excitement of todays balloon launch. Hope howard can fidn the
> missing package :-) We lost daylight too quickly and it was snowing. But I have a
> question for the general group I got input from Howard, as you know we were testing the
> GPS 18x for the 60K issue, we did get above this without any problems, but we did get a
> lockup on data updating and altitude/sped/heading reporting zero. this was after burst, I
> know we had some high winds and were moving over 120 mph at times. but trying to get
> an understanding what possibly made it lock on decent, question if there is still a
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> with the new firmware, or were we meeting some other criteria that could cause this?
> anyone have a list of the criteria that puts it in this mode? I dont believe the GPS can
> loose lock, but also the W9YJ-11 that free fell is still beaconing but its reporting all
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> knowledge.
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> 2008-11-20 19:18:58 UTC: N9QGS-11>APT311,WIDE2-
> 2,qAR,KG8AP:/191857h3956.64N/08524.46WO000/000/A=000000/Garmin 18x
> 2008-11-20 19:21:00 UTC: N9QGS-11>APT311,WIDE2-2,qAR,KC9NTZ-
> 1:/192059h3956.64N/08524.46WO000/000/A=000000
> 2008-11-20 19:21:45 UTC: N9QGS-11>APT311,K1DE-5,W8OAK-
> 13*,WIDE2,qAR,W8FSM-5:/191857h3956.64N/08524.46WO000/000/A=000000/Garmin
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> 2008-11-20 19:22:51 UTC: N9QGS-11>APT311,K1DE-5,W8OAK-
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> H:/193258h3954.75N/08505.61WO095/129/A=031159
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> 1:/193457h3954.32N/08500.40WO095/126/A=027832 [Location changes too fast (>500
> km/h)]
>
>
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>
> Yahoo! Groups Links
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Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4829. Re: [GPSL] BASE 31

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-21 17:27:15 UTC
From: BASE
Topic: 4826 Message: 4829

Mike,

Just to clarify, Ron's unit, N9QGS-11, stayed in the flight string. Our unit, W9YJ-11, was flying lower on the string and was the only one to fall freely.

Howard

--- On Fri, 11/21/08, Mike Manes <mrmanes@...m> wrote:
From: Mike Manes <mrmanes@...>
Subject: Re: [GPSL] BASE 31
To: GPSL@yahoogroups.com
Date: Friday, November 21, 2008, 11:57 AM

Since it seems your GPS payload broke free from the flight string shortly

after burst, then it most likely tumbled such that the GPS antenna never

got a long enough view of enough of the constellation to establish a solid

fix. And it's entirely possible that it accelerated past Mach 1.0 in the

thin air at altitude, which would have invoked the anti-Scud rule. Further,

the process of tearing free may have damaged or disconnected the GPS antenna.

The problem thus appears more likely to be payload enclosure robustness than

a GPS performance issue.

73 de Mike W5VSI

CTO EOSS

Ron Malinowski, Jr. wrote:

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> lockup on data updating and altitude/sped/ heading reporting zero. this was after burst, I

> know we had some high winds and were moving over 120 mph at times. but trying to get

> an understanding what possibly made it lock on decent, question if there is still a concern

> with the new firmware, or were we meeting some other criteria that could cause this?

> anyone have a list of the criteria that puts it in this mode? I dont believe the GPS can

> loose lock, but also the W9YJ-11 that free fell is still beaconing but its reporting all zeros

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>

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> 2008-11-20 19:18:58 UTC: N9QGS-11>APT311, WIDE2-

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> 2008-11-20 19:21:00 UTC: N9QGS-11>APT311, WIDE2-2,qAR, KC9NTZ-

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> 1:/192258h3956. 64N/08524. 46WO000/000/ A=000000

> 2008-11-20 19:23:30 UTC: N9QGS-11>APT311, WIDE2-

> 1,KB9YVN,qAS, KB9YVN:/191458h3 956.20N/08524. 36WO225/006/ A=083078 [Duplicate

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> 2008-11-20 19:24:59 UTC: N9QGS-11>APT311, WIDE2-2,qAR, KC9NTZ-

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> 2008-11-20 19:28:58 UTC: N9QGS-11>APT311, WIDE2-2,qAR, KC9NTZ-

> 1:/192857h3956. 64N/08524. 46WO000/000/ A=000000

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> 2008-11-20 19:31:43 UTC: N9QGS-11>APT311, AB8DD,W8GUC, WIDE2*,qAR, KD8AIV-

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> 2008-11-20 19:32:59 UTC: N9QGS-11>APT311, WIDE2-2,qAR, KC9NTZ-

> 1:/193258h3954. 75N/08505. 61WO095/129/ A=031159 [Location changes too fast (>500

> km/h)]

> 2008-11-20 19:33:44 UTC: N9QGS-11>APT311, K9APR-5,W8GUC, WIDE2*,qAR, KD8AIV-

> H:/193258h3954. 75N/08505. 61WO095/129/ A=031159

> 2008-11-20 19:34:41 UTC: N9QGS-11>APT311, WIDE2-

> 1,KB9YVN,qAS, KB9YVN:/192657h3 956.64N/08524. 46WO000/000/ A=000000 [Location

> changes too fast (>500 km/h)]

> 2008-11-20 19:34:59 UTC: N9QGS-11>APT311, WIDE2-2,qAR, KC9NTZ-

> 1:/193457h3954. 32N/08500. 40WO095/126/ A=027832 [Location changes too fast (>500

> km/h)]

>

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> Yahoo! Groups Links

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Mike Manes mrmanes@gmail. com Tel: 303-979-4899

"Things should be made as simple as possible, but not more so."

A. Einstein

4830. W9YJ-11 recovered BASE31 completed

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-22 01:32:47 UTC
From: BASE
Topic: 4830 Message: 4830
Attachments: 1 described; binary payloads are missing from this source WARC

We returned to the vicinity of the last signal from the W9YJ-11 pod this afternoon and retrieved the pod in 10 minutes. The final landing spot was 200 yards to the east of the last GPS value. Landed in a plowed corn field GPS side down.

I'm attaching a .jpg from Google Earth that shows the two landing points. The landings occurred 28 miles apart.

Next BASE flight will be 10 January 2009. A new class of students will make flights on consecutive Saturdays (10th and 17th) in January. Considering the anticipated winds, we can use all additional trackers.

All for now,
Howard

4831. APRS maps on mobile phones

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-22 14:55:51 UTC
From: Mark Conner
Topic: 4831 Message: 4831
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4832. ASTRO-11 Post-Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-23 19:56:26 UTC
From: Harry M
Topic: 4832 Message: 4832

ASTRO-11

Post-Flight Summary

http://astro.okstate.edu/ASTRO_11/ASTRO-11%20Post%20Flight.htm

ASTRO-11 was launched at approximately 9:04 (15:04Z) on Nov. 11, 2008. Students from all of the ENGR 1111 Intro to Aerospace Engineering teams were present to assist with the launch. OSU President Hargis was also present to talk with the students and witness the launch. Photos of the launch and recovery can be found below.

The track of ASTRO-11 was close to that predicted. The descent phase was shorter due to the fact that the balloon remnant did not separate from the load line after burst. The added weight increases the descent rate. The landing location was in a forested area near Leonard Oklahoma. The satellites were recovered in a tree on USGS land (see link below).

Peak Altitude: 97,917 ft.

Top Speed: 149 mph

Straight-line distance: 73.5 miles

Satellite view of landing location

Recovery Team:

Joe Conner OSU PhD Student, Mechanical and Aerospace Engineering

Ryan Paul OSU Junior Mechanical and Aerospace Engineering

Johnny Chandler OSU Junior Mechanical and Aerospace Engineering

Valentin Sanchez OSU Sophomore Mechanical and Aerospace Engineering

Ashwin Ravi OSU MS Student Mechanical and Aerospace Engineering

Harry Mueller Oklahoma Research Balloons, Tulsa, OK

Andy Arena OSU Professor, MAE

Harry Mueller - KC5TRB - Tulsa
Oklahoma Research Balloons
Home Page - http://members.cox.net/hhm_74775/orb/
Discussion - http://groups.yahoo.com/group/oklahoma_research_balloons/join
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4833. Re: [GPSL] ASTRO-11 Post-Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-25 15:17:08 UTC
From: Ralph Wallio, W0RPK
Topic: 4832 Message: 4833

Thanks Harry -- I will post 17.81mi. --Ralph W0RPK

4834. Re: [GPSL] ASTRO-11 Post-Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-25 21:09:48 UTC
From: Harry M
Topic: 4832 Message: 4834

Ralph,

Post my prediction if you choose, but due to erronious
data provided to me to make the landing prediction it
was way off. I'll probly not try to predict any more
OSU flights. I am rarely at launch and they have a habit
of not providing me with good predicted ascent/descent
data. Therefore I cannot make accurate landing predictions.
If ASTRO-11's ascent would have been as they provided me
for predicting the prediction would've been closer.

73 Harry KC5TRB

> Thanks Harry -- I will post 17.81mi. --Ralph W0RPK

4835. RE: [GPSL] ASTRO-11 Post-Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-25 21:39:12 UTC
From: Marty Griffin
Topic: 4832 Message: 4835

Hi Harry,
Perhaps Rick can help with these. The ascent and decent rate should be a function of the balloon fill and knowing what the weights are. EOSS shoots for around 1000 ft/min and usually gets it. I've already said more than I know. Perhaps Larry and Rick can provide some insight. You are as experienced at this as we are. Do your customers not provide weights to you? If not, that is going to throw a lot of stuff off.

Larry? Rick?

- Marty

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Tuesday, November 25, 2008 2:10 PM
To: GPSL@yahoogroups.com
Subject: Re: [GPSL] ASTRO-11 Post-Flight Summary

Ralph,

Post my prediction if you choose, but due to erronious data provided to me to make the landing prediction it was way off. I'll probly not try to predict any more OSU flights. I am rarely at launch and they have a habit of not providing me with good predicted ascent/descent data. Therefore I cannot make accurate landing predictions. If ASTRO-11's ascent would have been as they provided me for predicting the prediction would've been closer.

73 Harry KC5TRB

> Thanks Harry -- I will post 17.81mi. --Ralph W0RPK

Yahoo! Groups Links

4836. Re: [GPSL] ASTRO-11 Post-Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-25 23:42:20 UTC
From: Harry M
Topic: 4832 Message: 4836

Hey Marty,

This flight was an OSU flight and I was not at the launch. I have an idea what they plan for lift, but that is subject to change without me knowing until I start getting positions on the way to my predicted landing area. The problem is the proposed ascent rate I receive pre-flight. This past flight I was told the ascent would be 1400 fpm, that's what I based my prediction on, but they just dumped two full tanks in and it ended up to be 1600-1800 fpm thus the landing was much shorter than predicted pre-flight. Too late to send Ralph an update when I'm down range.

I just don't want to skew Ralph's list of "Touchdown Prediction" list that's all.

Thanks!
73 Harry

> Hi Harry,
> Perhaps Rick can help with these....

4837. RE: [GPSL] ASTRO-11 Post-Flight Summary

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-26 03:17:27 UTC
From: Marty Griffin
Topic: 4832 Message: 4837

Thanks Harry,
I'm sure you will work it out with these guys. When they pop a few balloons on the ground, and pay for it, they will pay attention. Nice to see you hooked up with a group to support your habits!

Happy Thanksgiving to you sir!
- Marty

-----Original Message-----
From: GPSL@yahoogroups.com [mailto:GPSL@yahoogroups.com] On Behalf Of Harry M
Sent: Tuesday, November 25, 2008 4:42 PM
To: GPSL@yahoogroups.com
Cc: 'Larry Noble'; Rick von Glahn
Subject: Re: [GPSL] ASTRO-11 Post-Flight Summary

Hey Marty,

This flight was an OSU flight and I was not at the launch. I have an idea what they plan for lift, but that is subject to change without me knowing until I start getting positions on the way to my predicted landing area. The

problem is the proposed ascent rate I receive pre-flight. This past flight I

was told the ascent would be 1400 fpm, that's what I based my prediction on,

but they just dumped two full tanks in and it ended up to be 1600-1800 fpm thus the landing was much shorter than predicted pre-flight. Too late to send Ralph an update when I'm down range.

I just don't want to skew Ralph's list of "Touchdown Prediction" list that's

all.

Thanks!
73 Harry

> Hi Harry,
> Perhaps Rick can help with these....

Yahoo! Groups Links

4839. Re: [Balloon_Sked] achived height vs balloon type and filling

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-27 00:15:03 UTC
From: Mike Manes
Topic: 4839 Message: 4839

Hello Thomas,

HEre's a link to all of EOSS's balloon-related software:

http://www.eoss.org/balsoft.htm

LiftWin is quite handy for computing a fill for a variety of balloons based on the weight suspended from the balloon neck. Both He and H2 are supported. As a rule of thumb, one should aim for about 1000 ft/min ascent rate to avoid stalling when flow separation occurs at high altitude.

A latex balloon can "stall" either due to an inadequate fill, cooling after sunset or a gas leak. It's an excellent idea to include a commandable release device to bring the payload string down before it soars out of sight and its batteries die.

It's also possible to get a substandard fill if there is over about 10 kt wind over the balloon during the fill; this creates "false lift" due to the top of the balloon acting like an airfoil. Best plan is to avoid filling under such conditions; winds are typically calmest shortly after sunrise.

And yes, the long-duration fligths typically use "zero-pressure" plastic balloons which have vents at the bottom. But it's also possible to cause a latex balloon to float at some desired altitude by controlling a dump valve in the neck. Another scheme is the super-pressure balloon which has a fixed, sealed volume - but it must withstand the excessive pressure of the fill gas during the day.

73 de Mike W5VSI

Thomas Scherrer wrote:
> can you direct me to calculators ?
> and or tables where I can see the most common ways how to predict or
> calculate the peak altitude.
>
> it is clear to me that a lighter weight payload will go highter,
> and the balloon needs to be as light weight as possible,
> and also be able to expand so it dont burst too erly.
>
> is it possible to fill a balloon in such an unlucky way that it with
> its payload, can stabilce at 10k ft or something like that, and just
> stays there until the gas run out ?
>
> the idea is to make it continue until it bursts and then return with
> parachute, but if the filled gas is too little, I guess it can not

> burst it, or if the payload is too big for the selected balloon and
> fill level.
>
> I guess long durations flights are made not using weather ballongs ??
> but some other large light weight plastic with also vents mounted to
> prevent bursting, and keep it longer lasting.
>
> -Thomas Scherrer OZ2CPU - www.webx.dk/bal
>
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
>
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4840. [Fwd: [Ballooning] What GPS arte you using?]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-27 16:27:39 UTC
From: Mike Manes
Topic: 4840 Message: 4840

-------- Original Message --------
Subject: [Ballooning] What GPS arte you using?
Date: Wed, 26 Nov 2008 08:30:36 -0600
From: Bruce Coates <bruce.coates@...>
Reply-To: Ballooning@yahoogroups.com
To: Ballooning@yahoogroups.com

Hi

Now that winter is upon us it's time to design equipment for next year's flights. Currently I'm flying a Garmin GPS18 connected to an OpenTracker1 and an SRB MX146 radio. I also have a SparkFun electronics logomatic to log the GPS data. This is all powered by 4 CR123 lithium cells. I want to redesign my tracker for next year. The objective is to make it smaller, lighter and consume less power if possible. I've already settled on reusing my MX146 radio and will switch to the OpenTracker SMT. I' may also switch to rechargeable lithium polymer cells. So, that leaves me with the choice of what to do for a GPS.

I started out planning to use a Copernicus module. I soon found that working with the small connections was a bit more difficult that I had hoped. Although it's very light it still needs an antenna and circuit board so the weight decrease was less than I had hoped for. I've also been told that it really needs an active antenna for best performance so this further decreased my weight savings. The additional power needed for the active antenna also reduced my power savings. The last straw was when I learned that my Copernicus module is probably defective.

I'm now back at square 1. One option I'm considering is the Larsen IQ module or the Garmin GPS15 module, but both still need an active antenna. Another option is to disassemble my GPS18 and just use the module. This is will help with the weight but not the power consumption.

So, what are other people using? What experience have you had integrating GPS modules into your flight packages? Any suggestions of what I should look at or avoid, besides the obvious one of working above 60,000 feet?

Thanks

Bruce - VE5BNC
http://ve5aa.dyndns.org

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4841. Re: [Fwd: [Ballooning] What GPS arte you using?]

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-27 17:07:21 UTC
From: k7rkt
Topic: 4840 Message: 4841

> From: Bruce Coates <bruce.coates@...>
>
> One option I'm considering is the Larsen IQ

Hi Bruce,

<shameless plug>

I use the Lassen IQ in my BeeLine GPS product (which is a completely integrated 2 meter 5 watt GPS/radio/APRS transmitter). It's been proven to work above 18000 meters, and is very low power.

http://bigredbee.com/blgps_2mhp.htm

</shameless plug>

I can provide a breakout board with on-board voltage regulator for cheap if you're interested in playing with the Lassen. I just take the BeeLine transmitter board and leave off the PIC and the radio circuit. You're left with a power connector and connectors for the two data ports on the lassen.

I can also provide the Lassen / Antenna if you're interested for a few $$$'s cheaper than what you can get it for at SparkFun.

-- Greg K7RKT

4842. Re: [Balloon_Sked] achived height vs balloon type and filling

Yahoo group: GPSL (2002 — 2008)
Date: 2008-11-27 17:20:44 UTC
From: Mike Manes
Topic: 4839 Message: 4842

Hi Thomas,

Apologies on behalf of us Yanks for desperately clinging to the English system, ironically abandoned long ago by the Brits. I expect that sometime in this millenium, we'll join the rest of the civilized world in fully adopting the metric system, perhaps even before the only other hanger-on, Liberia!

By "stalling", I mean a significant loss of ascent rate to the extent that burst and descent may be delayed until the flight is much farther downrange than planned.

I pointed out the most effective measures to avoid stalling, but I must emphasize the importance of carrying a commandable cutdown device if all else fails. This device has been used even on otherwise normal flight to avoid landing in an unaccessible area. The EOSS cutdown device also incorporates a DF beacon - it transmits a DF signal for 30 sec every minute, and listens for a DTMF cutdown command for the remaining 30 sec. The DF beacon has paid for itself many times where the APRS beacon has failed - most recently on our last flight.

IF you have run LiftWin, you may have noticed that for a given balloon and payload weight, one may fill for a range of ascent rates. A more generous fill will yield a faster ascent rate due to greater lift, and will result in burst at a lower altitude due to the greater volume of fill gas; the envelope will burst at a fairly predictable expanded maximum diameter.

EOSS has achieved its 100% recovery rate largely because we deploy the tracking and recovery teams out to the vicinity of predicted landing before we even start the fill. This has allowed the teams to witness the descent and landing on nearly all flight in recent years. During the summer, the upper winds are easterly, which causes the balloon to return towards the launch site, sometimes even passing directly overhead. On those flights, the trackers typically will deploy from the launch site after assisting the launch team. Winter flights, however, can be expected to travel at least 100 km downrange.

I'm not aware of any amateur balloon group who have successfully flown a latex release valve, but a company in New Mexico, US, Space Data, uses that method to float mobile phone cell sites in the stratosphere for up to 3 days.

Both latex and plastic balloon envelopes must be as light as possible, and thus rarely survive a flight and landing intact. And latex deteriorates rapidly in solar UV radiation - and often to the extent that a lightly-filled and slow-ascending balloon may burst at a lower altitude than a faster one, contrary to the assumption of a fixed burst diameter noted above. Accordingly, re-use of balloons is hardly worth a second thought.

In the US, Kaymont Inc in New York distributes the Japanese Kaysam line of latex balloons. A 1200 gm balloon, suitable for flights under 5 kg, costs about US$65.00 plus shipping. You might check with some of the other EU balloon groups listed on Ralph Wallio's web site for their sources. Beware of bargain basement latex balloons which may not have been stored properly or have exceeded their expiry date. They may have deteriorated to the extent that they won't survive a fill, or may burst much earlier than expected. But there are some valid bargains out there. Caveat emtor.

I've cc'd this to the GPSL reflector, which has become the ad hoc forum for technical issues related to ARHAB.

73 de Mike W5VSI
CTO EOSS

Thomas Scherrer wrote:
> Hi mike, thanks for getting back to me,
>
>> HEre's a link to all of EOSS's balloon-related software:
>> http://www.eoss.org/balsoft.htm
>
> super thanks !
>
>> LiftWin is quite handy for computing a fill for a variety of balloons
>> based on the weight suspended from the balloon neck.
>
> great, I am just a bit sad about it dont handle metric mode :-)
>
>> Both He and H2
>> are supported. As a rule of thumb, one should aim for about 1000 ft/min
>> ascent rate to avoid stalling when flow separation occurs at high
>> altitude.
>
> aha ok, stalling, you mean stabelicing at a height under the burst height
> so I get a problem ?!
>
>
>> A latex balloon can "stall" either due to an inadequate fill, cooling
>> after sunset or a gas leak. It's an excellent idea to include a
>> commandable release device to bring the payload string down before
>> it soars out of sight and its batteries die.
>
> exactly what I am affraight of, first of all I need to understand all
> fundamentals into full datail,
> to first prevent getting any issues, and then also add safety devices,
> a commandable feature will need a two way radio, and add more weight,
>
> something I dont understand, using the LiftWin:
> changing a payload weight I dont see the peak height change soo much ?!?!
> that is wierd to me..
> it is clear the time to get up goes much slower when the payload gets bigger,
> but I would expect a much heavier payload to go much lower,

> that is not the fact with that program.
>
>> It's also possible to get a substandard fill if there is over about
>> 10 kt wind over the balloon during the fill; this creates "false
>> lift" due to the top of the balloon acting like an airfoil. Best
>> plan is to avoid filling under such conditions; winds are typically
>> calmest shortly after sunrise.
>
> yes I see, I expect to perform my flight an erly morning with as low
> wind ad possible
> so I get long time to find it again, and also make my car hunt for it,
> as short as possible.
>
>> And yes, the long-duration fligths typically use "zero-pressure" plastic
>> balloons which have vents at the bottom. But it's also possible to
>> cause a latex balloon to float at some desired altitude by controlling a
>> dump valve in the neck. Another scheme is the super-pressure balloon
>> which has a fixed, sealed volume - but it must withstand the excessive
>> pressure of the fill gas during the day.
>
> have anyone tried to mount a pressure sensor inside a weather balloon ?
> and an electronic controlled valve to let the gas out again?
> with this added bursting can be avoided,
> and it can even be commanded down again, and even reused ?
> and then you can save the parachute, is this a bad idea ?
> I think the large balloons are quite expensive so reusing them seems
> like a cool idea, or not ?
>
> have you any idea where I get the 800gr to 1200gr large size weather
> balloons cheap ?
>
> (maybe we should copy some of this into the balloon skeed forum as well ?
> might help others too)
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4843. Fw: [HABET] Our next HABET Mission

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-04 21:57:43 UTC
From: Ralph Wallio, W0RPK
Topic: 4843 Message: 4843

----- Original Message -----
From: "Matthew Nelson" <mnelson@...>
Sent: Thursday, December 04, 2008 11:11
Subject: [HABET] Our next HABET Mission

A new space race has begun...

http://www.dailymail.co.uk/sciencetech/article-1091896/Out-world-British-teddy-bears-strapped-giant-weather-balloon-pictured-edge-space.html
*

*I have a linux penguin on my desk, I think we need to send the first
penguin up into space next :)
--
Matthew E. Nelson - KB0MGQ
Chief Design and Operations Engineer

Space Systems and Controls Lab (SSCL)
Aerospace Engineering
Iowa State University
2348 Howe Hall
515-294-2640
http://www.sscl.iastate.edu

4844. Re: [GPSL] Fw: [HABET] Our next HABET Mission

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-05 04:06:33 UTC
From: Mike Manes
Topic: 4843 Message: 4844

Thanks, Matt,

It's great to see that ARHAB is finally alive in the Jolly Olde! And from Cambridge, where I attended 2nd grade at Milton Road School in 1950. We didn't do that sort of thing back then!

Perhaps the UK FAA has set aside it's earlier prohibition on use of ham radio on balloons.

73 de Mike W5VSI
EOSS

Ralph Wallio, W0RPK wrote:
> ----- Original Message -----
> From: "Matthew Nelson" <mnelson@...>
> Sent: Thursday, December 04, 2008 11:11
> Subject: [HABET] Our next HABET Mission
>
>
> A new space race has begun...
>
> http://www.dailymail.co.uk/sciencetech/article-1091896/Out-world-British-teddy-bears-strapped-giant-weather-balloon-pictured-edge-space.html
> *
>
> *I have a linux penguin on my desk, I think we need to send the first
> penguin up into space next :)

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4845. (AR?)HAB flight in UK makes London Times

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-05 16:55:38 UTC
From: Mark Conner
Topic: 4845 Message: 4845

http://www.timesonline.co.uk/tol/news/uk/science/article5289142.ece

Britain’s space programme may have been in the doldrums since the disappearance of the Mars probe Beagle 2, but we are back in the race thanks to some soft-toy astronauts.

Four teddy bears dressed in space suits designed by schoolchildren were launched into the stratosphere by students from Cambridge University’s space-flight club.

4846. Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-11 17:23:07 UTC
From: Mike Manes
Topic: 4846 Message: 4846

Hi Bruce,

We've had some luck using a window made from clear mylar sheet over the view port, coated with windshield-grade RainX. A handy source of clear mylar is an old inkjet transparency cleaned off using 70% isopropyl alcohol. The window prevents forced convection from the slipstream and keeps whatever warm air inside. But, if the inside air is moist, it can frost up the interior surface of the window. We've used the little desiccant packs that come with some electronics to combat that issue.

You're wise NOT to apply anything to the lens surface directly, as that would risk damaging the anti-reflective coating.

If can keep the lens temperature above the dew point using copious insulation and waste heat from the camera and other heat generators in the payload, that'll work, too. I heard a story that TV cameramen at the winter Olympics a few years ago would connect a pair of 9V alkaline transistor radio batteries face to face, effectively shorting them out, and duct taping them to their lenses to keep 'em warm.

One other scheme that's worked for us is to use a pair of crossed polarized plastic filter sheets over our up-looking camera port, originally intended to form a 1% transmissive filter to reduce image contrast so we could see the shading on the balloon. 99% of the light striking this filter is absorbed, producing heat. That window also has a homebrew sunshade painted flat black to keep direct sunlight from making flares in the image.

73 de Mike W5VSI
CTO EOSS

Bruce Coates wrote:
> Hi
>
> I'm searching for a solution to frost on our camera lenses as high
> altitude. We're using Polaroid iZone 300 cameras which have quite small
> lenses, about 1/8 inch in diameter. At high altitudes we're noticing
> frost starting to form on the lenses. It appears as what looks like a
> hair in the lens. Over time, several "hairs" begin to appear until
> there are a dozen or more in the frame. As we descend, the frost
> disappears. Our cameras are mounted inside the payload with pyramid
> shaped viewing ports the Styrofoam walls for the lenses.
>
> Have other people encountered this? If so, did you find a solution?
> Some ideas I have include a "window" at the outside edge of the camera
> ports, perhaps with thin glass or Saran Wrap. This might help to
> isolate the cameras from the elements and help keep the lenses warmer.

> It may also just attract more frost. It also has the potential for
> distorting the image and getting contaminated with dust before launch.
> Another is to better insulate around the cameras and move heat
> generating devices like voltage regulators to help keep them warmer.
> Down here on earth, you could also circulate air across the lenses but
> that's pretty tough to do where there is no air. The thought of some of
> the after market windshield coatings like Rain-X crossed my mind but
> they would probably interfere with or damage the lenses coating.
>
> Any ideas would be appreciated.
>
> Thanks
>
> Bruce - VE5BNC
> Saskatoon Amateur Radio Club
> http://ve5aa.dyndns.org
>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4847. Pump Recommendations

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-11 17:25:55 UTC
From: Michael Gray
Topic: 4847 Message: 4847

We (ANSR) are working on the final assembly of our zero pressure balloon project. One of the requirements is for a ballast pump that is capable pumping anti-freeze at cold temperature (-40degF). On a previous flight we used a small pump that was submerged in the ballast container. Does anyone have a pump or recommended source for this type of pump?

Desired characteristics

3-6 VDC
Current < 300mA
Submersible

http://kd7lmo.net/pump.jpg

Thanks for any suggestions
73s de KD7LMO

4848. Re: [GPSL] Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-11 17:42:06 UTC
From: L. Paul Verhage
Topic: 4846 Message: 4848
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4849. Re: [GPSL] Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-11 18:55:47 UTC
From: John Nordlie
Topic: 4846 Message: 4849

I'd second that. The only times we've had icing problems is when
we tried using windows. A bare lens never gave us problems,
except for the one that landed in a lake :-).

L. Paul Verhage wrote:
> I recommend not using windows. I've not had a problem with cameras
> whose lens is exposed to near space. The rest of it is stored in a
> Styrofoam box.
>
> Paul
>
> On Thu, Dec 11, 2008 at 11:23 AM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Bruce,
>
> We've had some luck using a window made from clear mylar sheet over
> the view
> port, coated with windshield-grade RainX. A handy source of clear
> mylar is
> an old inkjet transparency cleaned off using 70% isopropyl alcohol. The
> window prevents forced convection from the slipstream and keeps whatever
> warm air inside. But, if the inside air is moist, it can frost up the
> interior surface of the window. We've used the little desiccant
> packs that
> come with some electronics to combat that issue.
>
> You're wise NOT to apply anything to the lens surface directly, as that
> would risk damaging the anti-reflective coating.
>
> If can keep the lens temperature above the dew point using copious
> insulation
> and waste heat from the camera and other heat generators in the payload,
> that'll work, too. I heard a story that TV cameramen at the winter
> Olympics
> a few years ago would connect a pair of 9V alkaline transistor radio
> batteries
> face to face, effectively shorting them out, and duct taping them to
> their
> lenses to keep 'em warm.
>
> One other scheme that's worked for us is to use a pair of crossed
> polarized
> plastic filter sheets over our up-looking camera port, originally
> intended to

> form a 1% transmissive filter to reduce image contrast so we could
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> shading on the balloon. 99% of the light striking this filter is
> absorbed,
> producing heat. That window also has a homebrew sunshade painted
> flat black
> to keep direct sunlight from making flares in the image.
>
> 73 de Mike W5VSI
> CTO EOSS
>
> Bruce Coates wrote:
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> >
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> > lenses, about 1/8 inch in diameter. At high altitudes we're noticing
> > frost starting to form on the lenses. It appears as what looks
> like a
> > hair in the lens. Over time, several "hairs" begin to appear until
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> > Some ideas I have include a "window" at the outside edge of the
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> > isolate the cameras from the elements and help keep the lenses
> warmer.
> > It may also just attract more frost. It also has the potential for
> > distorting the image and getting contaminated with dust before
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> > Another is to better insulate around the cameras and move heat
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> > Down here on earth, you could also circulate air across the
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> > the after market windshield coatings like Rain-X crossed my mind but
> > they would probably interfere with or damage the lenses coating.
> >
> > Any ideas would be appreciated.
> >
> > Thanks
> >
> > Bruce - VE5BNC
> > Saskatoon Amateur Radio Club
> > http://ve5aa.dyndns.org <http://ve5aa.dyndns.org/>

> >
>
> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
> 303-979-4899
> "Things should be made as simple as possible, but not more so."
> A. Einstein
>
> ------------------------------------
>
> Yahoo! Groups Links
>
>
> mailto:GPSL-fullfeatured@yahoogroups.com
> <mailto:GPSL-fullfeatured@yahoogroups.com>
>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>

--

John Nordlie
Research Assistant/Systems Administrator
Regional Weather Information Center
University of North Dakota
Grand Forks, ND 58202-9007

4850. Re: [GPSL] Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-11 23:35:01 UTC
From: Joe
Topic: 4846 Message: 4850

and for us the only time was when coming down from the cold to hot humid
summer air, then we'd fog up but soon to dry up
Joe Near Space Sciences

John Nordlie wrote:

>I'd second that. The only times we've had icing problems is when
>we tried using windows. A bare lens never gave us problems,
>except for the one that landed in a lake :-).
>
>L. Paul Verhage wrote:
>
>
>>I recommend not using windows. I've not had a problem with cameras
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>>Styrofoam box.
>>
>>Paul
>>
>>On Thu, Dec 11, 2008 at 11:23 AM, Mike Manes <mrmanes@...
>><mailto:mrmanes@...>> wrote:
>>
>> Hi Bruce,
>>
>> We've had some luck using a window made from clear mylar sheet over
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>> port, coated with windshield-grade RainX. A handy source of clear
>> mylar is
>> an old inkjet transparency cleaned off using 70% isopropyl alcohol. The
>> window prevents forced convection from the slipstream and keeps whatever
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>> interior surface of the window. We've used the little desiccant
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>> and waste heat from the camera and other heat generators in the payload,
>> that'll work, too. I heard a story that TV cameramen at the winter
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>> face to face, effectively shorting them out, and duct taping them to
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>> lenses to keep 'em warm.
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>> producing heat. That window also has a homebrew sunshade painted
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>> to keep direct sunlight from making flares in the image.
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>> 73 de Mike W5VSI
>> CTO EOSS
>>
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>> > Down here on earth, you could also circulate air across the
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>> > the after market windshield coatings like Rain-X crossed my mind but
>> > they would probably interfere with or damage the lenses coating.

>> >
>> > Any ideas would be appreciated.
>> >
>> > Thanks
>> >
>> > Bruce - VE5BNC
>> > Saskatoon Amateur Radio Club
>> > http://ve5aa.dyndns.org <http://ve5aa.dyndns.org/>
>> >
>>
>> --
>> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
>> 303-979-4899
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>>
>> ------------------------------------
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>> mailto:GPSL-fullfeatured@yahoogroups.com
>> <mailto:GPSL-fullfeatured@yahoogroups.com>
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>>--
>>Onwards and Upwards,
>>Paul
>>
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>

4851. Re: [GPSL] Pump Recommendations

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-12 02:19:13 UTC
From: ccccrnr@aim.com
Topic: 4847 Message: 4851

UT amateur radio club in Knoxville, TN

has a pretty good be of experience with both ethanol and anti-freeze
being pumped out during the flight. (and/or not pumped) (-40° is really darn cold)

In the spirit of friendly competition
they have gone closed source for the time being with their information wiki

But if you are not trying to do the Trans-Atlantic flight
someone involved with the Knoxville club's balloon flights might give you some good
suggestions on the phone.

Take Care,
Carlton Corbitt

-----Original Message-----
From: Michael Gray <mgray@...>
To: GPSL@yahoogroups.com
Sent: Thu, 11 Dec 2008 11:25 am
Subject: [GPSL] Pump Recommendations

We (ANSR) are working on the final assembly of our zero pressure balloon
project. One of the requirements is for a ballast pump that is capable
pumping anti-freeze at cold temperature (-40degF). On a previous flight
we used a small pump that was submerged in the ballast container. Does
anyone have a pump or recommended source for this type of pump?

Desired characteristics

3-6 VDC
Current < 300mA
Submersible

http://kd7lmo.net/pump.jpg

Thanks for any suggestions
73s de KD7LMO

4852. Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-12 03:45:57 UTC
From: Mike Manes
Topic: 4846 Message: 4852

Be careful to get the handwarmers that carry their own oxidizer - some of 'em rely ambient O2 which there's not much of at 10 mbar!
73 de Mike W5VSI

Charles Laughlin wrote:
> There are of course those small chemical handwarmers that are like large
> tea bags that produce heat inside one's gloves over a couple of hours.
> Maybe one of them in the package. They take 30 minutes to really get
> going, so one could start them just at the beginning of the flight.
>
> Charlie Laughlin
>
> On Thu, Dec 11, 2008 at 10:23 AM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Hi Bruce,
>
> We've had some luck using a window made from clear mylar sheet over
> the view
> port, coated with windshield-grade RainX. A handy source of clear
> mylar is
> an old inkjet transparency cleaned off using 70% isopropyl alcohol. The
> window prevents forced convection from the slipstream and keeps whatever
> warm air inside. But, if the inside air is moist, it can frost up the
> interior surface of the window. We've used the little desiccant
> packs that
> come with some electronics to combat that issue.
>
> You're wise NOT to apply anything to the lens surface directly, as that
> would risk damaging the anti-reflective coating.
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> If can keep the lens temperature above the dew point using copious
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> and waste heat from the camera and other heat generators in the payload,
> that'll work, too. I heard a story that TV cameramen at the winter
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> CTO EOSS
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> > > the after market windshield coatings like Rain-X crossed my mind but
> > > they would probably interfere with or damage the lenses coating.
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> > > Any ideas would be appreciated.
> > >
> > > Thanks
> > >
> > > Bruce - VE5BNC
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> --
> Mike Manes mrmanes@... <mailto:mrmanes@...> Tel:
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> subscriptions:
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> Check out my Blog: http://charleslaughlin.blogspot.com/
>

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Mike Manes mrmanes@... Tel: 303-979-4899
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A. Einstein

4853. Re: [GPSL] Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-12 21:16:23 UTC
From: L. Paul Verhage
Topic: 4846 Message: 4853
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4854. Re: [GPSL] Re: [Ballooning] Camera lens frost.

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-12 23:58:37 UTC
From: Mike Manes
Topic: 4846 Message: 4854

If there's a reasonable balance between internal heat dissipation and thermal resistance to the slipstream, pre-heating shouldn't be necessary unless the ambient at the launch site is worse than what we endured last month for EOSS-133 & -134 (-6C! - brrrr!). Keeping the sensitive payloads inside a toasty car until just before flight string prep may help as well - I do this with the RG-8 size coax so it won't bend like rebar during ground station setup.

73 de Mike W5VSI

L. Paul Verhage wrote:
> I'm thinking about warming my capsules with an electric hair drier 30
> minutes prior to launch, while the balloon is being filled. That should
> get it toasty warm and I hope, keep it warmer during the entire mission.
>
> Paul "who doesn't have as much hair to dry as he use to" Verhage
>
> On Thu, Dec 11, 2008 at 9:45 PM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>> wrote:
>
> Be careful to get the handwarmers that carry their own oxidizer -
> some of
> 'em rely ambient O2 which there's not much of at 10 mbar!
> 73 de Mike W5VSI
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> Charles Laughlin wrote:
> > There are of course those small chemical handwarmers that are
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> > Maybe one of them in the package. They take 30 minutes to really get
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> > Charlie Laughlin
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> > On Thu, Dec 11, 2008 at 10:23 AM, Mike Manes <mrmanes@...
> <mailto:mrmanes@...>
> > <mailto:mrmanes@... <mailto:mrmanes@...>>> wrote:
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> > Hi Bruce,
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> >
> > --
> > Mike Manes mrmanes@... <mailto:mrmanes@...>
> <mailto:mrmanes@... <mailto:mrmanes@...>> Tel:
> > 303-979-4899
> > "Things should be made as simple as possible, but not more so."
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> >
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> Onwards and Upwards,
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4855. Re: Pump Recommendations

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-13 02:57:38 UTC
From: K. Mark Caviezel
Topic: 4847 Message: 4855

I'm pretty sure the UTARC guys used a solenoid valve like this:
http://www.pneuaire.com/lowwasu34wav.html
which is the lightest and most power miserly solenoid valve I've ever seen.

If you combine that valve with a 2 l or 3 l plastic soda bottle and ethanol ballast, you've got a darn fine ballast system.

I'm pretty sure they used this valve in non pressurized 'slow dribble' mode as well as a CO2 pressurized 'power squirt' mode.

KD7LMO: I bought that pump from Edmund Scientific, but I couldn't find it on their website now.

All: It gets a lot colder than -40C at night in the stratosphere. Planning for -80C may be better. The forecast calls for -60 C at FL480 over my house this evening:
http://adds.aviationweather.gov/winds/

Due to their high freezing points, ethylene glycol and propylene glycol automotive antifreezes, even when mixed with the proper amount of water to depress the freezing point are not suitable ballast liquids.

best regards,

- Mark ng0x

4856. Re: [GPSL] Re: Pump Recommendations

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-13 03:12:16 UTC
From: Mike Manes
Topic: 4847 Message: 4856

Manned He balloonists use dry sand for ballast, altho I'm not sure how one might configure a means to release it remotely in controlled quantities. Maybe a screw feeder like on coal-fired furnaces of yor? If there's suitable liquid ballast, then perhaps one could rig the tank with a vertical "straw" running from the bottom and out the top, and use an air pump or solenoid-controlled gas cartridge to pressurize the top of the tank? That would let the control goodies stay indoors where it's a bit cozier. Of course, the tank could stay indoors as well, thus providing some thermal mass to make it thru the night.

73 de Mike W5VSI

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> - Mark ng0x
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Mike Manes mrmanes@... Tel: 303-979-4899
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4857. Re: [GPSL] Re: Pump Recommendations

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-14 20:06:59 UTC
From: Michael Gray
Topic: 4847 Message: 4857

Thanks for all the guidance and information. We are going to try the valve with ethanol ballast system. I've ordered a couple valves and fittings. I'll test the setup in a thermal chamber. I can get down to -70degF.

Mike Manes wrote:
> Manned He balloonists use dry sand for ballast, altho I'm not sure how one
> might configure a means to release it remotely in controlled quantities.
> Maybe a screw feeder like on coal-fired furnaces of yor? If there's suitable
> liquid ballast, then perhaps one could rig the tank with a vertical "straw"
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4858. GlobalStar backup tracker FindMeSpot on sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-14 20:30:04 UTC
From: wb8elk@aol.com
Topic: 4858 Message: 4858

I just learned that the FindMeSpot unit that I've used quite successfully as a backup balloon tracker is on sale until Dec.31 (stops above 60,000 feet but comes to life below that).

After a mail-in rebate they are $99 each instead of the normal $149. Plus some of the retailers offer free shipping. I ordered mine from Cabelas.

http://www.findmespot.com (http://www.findmespot.com)

You'll have to sign up for the tracking service to activate them however....that's $99 a year for unlimited use....an additional $49 a year for the 24 hour continuous track mode with map (reports every 10 minutes).

I now fly these for most larger missions as it's 7 ounces of fairly inexpensive backup....It's saved me several times when my landing spot has been out of range of digipeaters or there was an APRS tracker failure. It'll work even upside down on the ground and sends it's position directly to the orbiting GlobalStar network every 10 minutes or so. It also comes in handy when we hike into rugged terrain as there's a 911 button on it that will alert search and rescue in case of emergency.

- Bill WB8ELK

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4859. Re: [GPSL] GlobalStar backup tracker FindMeSpot on sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-14 20:34:14 UTC
From: Robert Rochte
Topic: 4858 Message: 4859
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4860. Re: [GPSL] GlobalStar backup tracker FindMeSpot on sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-15 00:19:25 UTC
From: Mike Manes
Topic: 4858 Message: 4860

Hi Bill,

I guess that system works well if you have cell phone coverage near the
landing site. E. Colo has a lot of "no bars" territory for any service.
So we'll stick with the ham bands.

73 de Mike W5VSI

wb8elk@... wrote:
> I just learned that the FindMeSpot unit that I've used quite
> successfully as a backup balloon tracker is on sale until Dec.31 (stops
> above 60,000 feet but comes to life below that).
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>

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."

A. Einstein

4861. Re: [GPSL] GlobalStar backup tracker FindMeSpot on sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-15 00:27:52 UTC
From: Greg Clark
Topic: 4858 Message: 4861
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4862. Trimble Copernicus now flight qualified over 60k feet

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-15 00:40:42 UTC
From: wb8elk@aol.com
Topic: 4862 Message: 4862

In my last flight this past Saturday, I proved out that the Trimble Copernicus will work above the 60k foot limit....It tracked up to the burst at 104,891 feet (31971 meters).

However, it still seems to be desensed by local 2m and 70cm RF signals.....I tried it with a passive helix antenna this time made by Sarantel, but it went in and out of lock during the flight.....The active antenna that I used on it before that was very sensitive to desense by the ozonesonde on 403 MHz and wasn't usable in that environment....at least this time it did track part of the time. I'll try some different antennas on it to try to find one that works with nearby 2m and 440 MHz transmitters.

Highest reported track during this weekend's ozonesonde hitchhiker via AFSK RTTY on 2m FM:

WB8ELK-15:/163/213214/3456.81/08437.33/090/072/1/06/31971/8.86/6/63/W

To decode the above telemetry frame:

Callsign:/seq#/time/latitude/longitude/spd/hdg/lock/sats/altitude/voltage/temp/press/W

>>for "lock" field: 0 = no tracking, 1 = locked and tracking, 2 = DGPS (WAAS)
>> note that altitude is in 'meters'.

- Bill WB8ELK

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4863. Addendum to Trimble Copernicus posting

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-15 01:00:23 UTC
From: wb8elk@aol.com
Topic: 4863 Message: 4863

Just as a note....to get the Trimble Copernicus to work above the 60,000 foot limit (actually it stops at 27,000 feet in LAND mode) you must configure it to run in 'AIR' mode....not the LAND mode that comes as the default setting.

Also....it is interesting to note that I was surprised that the Deluo GPS unit that N4XWC flew on my Field Day balloon stopped working at 78,000 feet instead of the 60,000 foot limit I expected it to fail....it turns out that the reason that it failed at 78,000 feet is most likely due to a Kalman Filtering limit that some manufacturers put in their GPS code instead of due to the DoD limit.

- Bill WB8ELK

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4864. Re: [GPSL] GlobalStar backup tracker FindMeSpot on sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-15 01:38:10 UTC
From: Mike Manes
Topic: 4858 Message: 4864

I was referring to how a tracker gets the data, not how it's delivered by
the beacon.

73 de Mike W5VSI

Greg Clark wrote:
> But it's not cell phone based, FindMeSpot talks directly to the satellites.
>
> -- Greg K7RKT
>
>
--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4865. Re: [GPSL] GlobalStar backup tracker FindMeSpot on sale

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-15 02:09:56 UTC
From: Greg Clark
Topic: 4858 Message: 4865

Oh -- I think I get where you're coming from. If you're searching for
the device (balloon), you need cell phone service to access the
findmespot reporting service.

Sorry about that!

-- Greg

On 12/14/08, Greg Clark <K7RKT@...> wrote:
> both directions are satellite based if I'm not mistaken.
>
> -- Greg
>
>
> On Sun, Dec 14, 2008 at 5:38 PM, Mike Manes <mrmanes@...> wrote:
>
> >
> >
> >
> >
> >
> >
> > I was referring to how a tracker gets the data, not how it's delivered by
> > the beacon.
> >
> > 73 de Mike W5VSI
> >
> >
> > Greg Clark wrote:
> > > But it's not cell phone based, FindMeSpot talks directly to the
> satellites.
> > >
> > > -- Greg K7RKT
> > >
> > >
> > >
> > --
> > Mike Manes mrmanes@... Tel: 303-979-4899
> > "Things should be made as simple as possible, but not more so."
> > A. Einstein
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4866. Re: Austrian Balloon Flight

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-22 01:20:33 UTC
From: Mike Manes
Topic: 4866 Message: 4866

Thanks, Gary,

I've cc'ed Ralph W0RPK who mothers the balloon group archives. Don't recall having seen Austria show up on the announcements. Then again, they may not be running ham radio aboard - but that's not show-stopper.

73 de Mike W5VSI

Gary Sutton wrote:
> Mike, you may have already seen this, but in case you haven't, here's a
> link to some Austrian cohorts in ballooning.
>
> http://www.polares.org/cms/aid=721.phtml
>
> 73,
>
> Gary
> WB5PJB

--
Mike Manes mrmanes@... Tel: 303-979-4899
"Things should be made as simple as possible, but not more so."
A. Einstein

4867. CAP n Space Workshop/Class

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-23 05:22:38 UTC
From: L. Paul Verhage
Topic: 4867 Message: 4867
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4868. Re: [GPSL] CAP n Space Workshop/Class

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-23 14:26:51 UTC
From: Keith Kaiser
Topic: 4867 Message: 4868

Hi Paul,

Actually I think we have two, one for the FAA another for the Scouts.

What's up?

Merry Christmas and Happy New Year.

On Dec 22, 2008, at 11:22 PM, L. Paul Verhage wrote:

> Hey, are the KC folks planning a BalloonSat class this summer?
>
> --
> Onwards and Upwards,
> Paul
>
>

4869. Re: [GPSL] CAP n Space Workshop/Class

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-24 21:36:25 UTC
From: L. Paul Verhage
Topic: 4867 Message: 4869
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4870. Re: [GPSL] CAP n Space Workshop/Class

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-24 22:05:40 UTC
From: Keith Kaiser
Topic: 4867 Message: 4870

We would love to Paul. Tell me more about them.

On Dec 24, 2008, at 3:36 PM, L. Paul Verhage wrote:

>
> I have designed a flight computer for BalloonSats that I'd like to
> test in one or both of your classes. These are programmed, so
> they're a step up from using Hobos.
>
> Can we run a test with one of your groups?
>
> Paul
>
> On Tue, Dec 23, 2008 at 8:26 AM, Keith Kaiser <wa0tjt@...>
> wrote:
> Hi Paul,
>
> Actually I think we have two, one for the FAA another for the Scouts.
>
> What's up?
>
> Merry Christmas and Happy New Year.
>
>
> On Dec 22, 2008, at 11:22 PM, L. Paul Verhage wrote:
>
>> Hey, are the KC folks planning a BalloonSat class this summer?
>>
>> --
>> Onwards and Upwards,
>> Paul
>>
>
>
>
>
> --
> Onwards and Upwards,
> Paul
>
>

4871. Re: [GPSL] CAP n Space Workshop/Class

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-24 22:36:27 UTC
From: L. Paul Verhage
Topic: 4867 Message: 4871
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

4872. GPSL 2009

Yahoo group: GPSL (2002 — 2008)
Date: 2008-12-27 01:53:29 UTC
From: L. Paul Verhage
Topic: 4595 Message: 4872
Attachments: 2 described; binary payloads are missing from this source WARC

[Attachment content not displayed]

9869. Re: [Ballooning] High altitude balloon launch to be featured on this upcoming Nat Geo TV special

Yahoo group: GPSL (2002 — 2008)
Date: 2006-01-03 05:25:42 UTC
From: Joe
Topic: 9803 Message: 9869
Attachments: 4 described; binary payloads are missing from this source WARC

Bill Is My Hero!!!

Bill VS Aliens Equals Dead Aliens!

WAY TO GO BILL!!

Joe WB9SBD

The Original Rolling Ball Clock
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Idle-Tyme.com
http://www.idle-tyme.com

On 5/15/2011 10:47 PM, wb8elk@... wrote:
>
>
> National Geographic TV filmed us flying a balloon from the NSSTC
> building in Huntsville, Alabama last September as part of a show about
> defending Earth against alien attack....one way we demonstrated was to
> use high altitude balloons to re-establish communications between
> isolated cities and communities with an onboard repeater relay system.
> Announcing the premiere of our latest 2hr special...
> *
> *
> *WHEN ALIENS ATTACK *on The National Geographic Channel
>
> Premieres *SUN MAY 22* @ *8pm* (check your local listings)
>
> http://channel.nationalgeographic.com/episode/when-aliens-attack-5357/Overview
>
> http://channel.nationalgeographic.com/channel/tout/5357-show-credits
>
> - Bill WB8ELK
>
>
>